humanised anti-IL-6 receptor monoclonal antibody

Actemra® Intravenous Infusion
tocilizumab (genetical recombination)

Biologics, Powerful drug, Designated drug, Prescription drug
(Caution: Use only according to a prescription of a physician)
Listed on the NHI reimbursement price list

Please refer to the Package insert for further prescribing information,
Precautions for Use including Dosage, Administration, Warning, Contraindications.

CHUGAI PHARMACEUTICAL CO., LTD.
A member of the Mitsubishi group
http://www.chugai-pharm.co.jp

2009.2
The 9th
World Congress on Inflammation

Joint Meeting with the 30th JSIR Annual Meeting
Coorganization with Science Council of Japan

Date: July 6-10, 2009
Venue: Keio Plaza Hotel Tokyo

http://www2.convention.jp/wci2009
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Advertisements
Dear Colleagues,

It is our great honor and pleasure to have your attendance to the 9th World Congress on Inflammation. This biannual World Congress, organized by the International Association of Inflammation Societies (IAIS), was initiated in Vienna in 1993, and this is the second for Japanese Society of Inflammation and Regeneration (JSIR) to act as a host society. This 9th Congress is a joint meeting with JSIR 30th Annual Meeting and co-organization with Science Council of Japan.

Progress in inflammation research over the last decade has been great. Molecular bases of various inflammatory responses have been revealed and numerous novel potential therapeutic targets have been uncovered. Humanized antibodies have been applied for the treatment of rheumatoid arthritis and various inflammatory diseases, and custom-made medicine is now expected in the post-sequencing era. In addition, although it is a long-lasting dream of inflammation researchers to regenerate the impaired organs due to excessive chronic inflammation, we consider it is time to integrate regenerative medicine into inflammation research. Therefore, the main theme of this congress is entitled INNOVATIVE RESEARCH OF INFLAMMATION, REPAIR AND REGENERATIVE MEDICINE.

In this congress, we have 6 Keynote Lectures and 2 Special Lectures in addition to 6 main Morning Symposiums and 7 Society-Sponsored Symposiums. We are also very grateful to have received around 350 general abstracts to this congress.

We do hope that you will enjoy not only scientific session, but also Japanese culture by visiting metropolitan area and other parts of Japan during and after the meeting.

Very sincerely yours,

Kouji Matsushima
The President of the 9th World Congress on Inflammation
# Committees

**President**  
Kouji Matsushima, Japan

**Vice Presidents**  
Nobuyuki Miyasaka, Japan  
Tatsutoshi Nakahata, Japan

**Secretary Generals**  
Shinichi Kawai, Japan  
Ikuo Morita, Japan

**Program Chair & President of 30th JSIR Annual Meeting**  
Kazuhiko Yamamoto, Japan

**Publication**  
Hideyuki Okano, Japan

**Treasurers**  
Kusuki Nishioka, Japan  
Kazuo Tsubota, Japan  
Toshikazu Yoshikawa, Japan

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Masataka Majima, Japan  
Tsuneyo Mimori, Japan  
Yoshiki Miyachi, Japan  
Masayuki Miyasaka, Japan  
Norio Nakatsuji, Japan  
Mitsuo Ochi, Japan  
Teruo Okano, Japan  
Yasuhiko Tabata, Japan  
Yasufumi Takahashi, Japan  
Tsutomu Takeuchi, Japan  
Minoru Ueda, Japan

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Toshifumi Hibi, Japan  
Tatsuro Irimura, Japan  
Satoshi Itami, Japan  
Yoichiro Iwakura, Japan  
Shu-Ichi Kaneko, Japan  
Issei Komuro, Japan  
Shoji Kudo, Japan  
Yuji Naito, Japan  
Kenji Nakanishi, Japan  
Takashi Nishimura, Japan  
Teruo Okano, Japan  
Hitoshi Okochi, Japan  
Masabumi Shibuya, Japan  
Shinji Shimada, Japan  
Makoto Suematsu, Japan  
Takayuki Sumida, Japan  
Tetsuya Taga, Japan  
Hiroshi Takayanagi, Japan  
Yoshiya Tanaka, Japan  
Mamoru Watanabe, Japan  
Takashi Wada, Japan  
Osamu Yoshie, Japan  
Akihiko Yoshimura, Japan  
Kazuyuki Yoshizaki, Japan

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Fumimaro Takaku, Japan
Kiyoshi Takatsu, Japan
Masaru Taniguchi, Japan
Tadatsugu Taniguchi, Japan
Scheffer C. Tseng, U.S.A.
Jan T. Vilcek, U.S.A.

JSIR - Japanese Society of Inflammation and Regeneration
Kouji Matsushima, President of WCI2009
Nobuyuki Miyasaka, JSIR President

SCIL - Society for Cytokine, Inflammation and Leukocytes (Australia)
John Hamilton

GREMI - Groupe de Recherche et d’Etudes des Mediateurs de l’Inflammation
Michel Chignard
Charles Brink

IAIS-International Association of Inflammation Societies
Ian Ahnfelt-Rønne
Lisa Marshall
Michael Parnham

Secretariats
Shin-ichi Hashimoto, Japan
Yoko Numahata, Japan
Naoko Ohata, Japan

IAIS Steering Committee Members

BIS - Brazilian Inflammation Society
Sergio Ferreira
Mauro Teixeira

BIRAs - British Inflammation Research Association
Ian M. Adcock
Neville A. Punchard

CAN - Canadian Arthritis Network
John Di Battista

CIS - Canadian Inflammation Society
Tineke Meijers

IRA - Inflammation Research Association (USA)
William Selig
John Sommerville
Floor Plan
**Congress Information**

The 9th World Congress on Inflammation

Joint Meeting with the 30th Annual Meeting of the Japanese Society of Inflammation and Regeneration
Co-organization with Science Council of Japan

[http://www2.convention.jp/wci2009](http://www2.convention.jp/wci2009)

**Date:**
July 6 (Mon.) – July 10 (Fri.), 2009

**Venue:**
Keio Plaza Hotel
2-2-1, Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-8330, JAPAN
TEL: 03-3344-0111
URL: http://www.keioplaza.com/

**Main Theme:**
“Innovative Research of Inflammation, Repair and Regenerative Medicine”

**Official Language:**
English (No simultaneous translation will be provided.)

**Technical and Commercial Exhibition:**
A technical and commercial exhibition of large-scale equipment will be held at Room HANA, 4F, Keio Plaza Hotel from July 7 to July 9, 2009. Exhibitors will be eager to demonstrate and explain their latest products, and answer your questions.

**Internet Corner: (Sponsored by Shionogi & Co., Ltd.)**
Room HANA, 4F, Keio Plaza Hotel
July 7 (Tue.) 9:00 -21:00
July 8 (Wed.) 9:00 -21:00
July 9 (Thur.) 9:00 -17:00

**Tour Desk:**
In front of Room HANA, 4F, Keio Plaza Hotel
July 7 (Tue.) 11:00 -15:00
July 8 (Wed.) 11:00 -15:00
July 9 (Thur.) 11:00 -15:00
Applications for accompanying person’s program can be made at the Tour Desk.

**Overnight Reports:**
The overnight reports of the 9th World Congress on Inflammation by Thomson Reuters will be updated daily between July 7 and July 10 on our official website at: [http://www2.convention.jp/wci2009](http://www2.convention.jp/wci2009)
Lunch:
Lunches will be provided at the Luncheon Seminars on July 7 (Tue.), 8 (Wed.) and 9 (Thur.). As there will be a limited number of meals, they will be served on a first-come, first-served basis.

Mobile Phones:
During the lectures, you are prohibited from using a cellular phone or PHS. Please turn it off or put it on silent mode.

Smoking:
Smoking is forbidden anywhere except for smoking sections.

Safety:
You should keep an eye on your personal belongings at all times. The congress organisers will not be responsible for any loss or damage incurred.

Social Program

Opening Ceremony
Date and Time: Monday, July 6, 16:30 - 17:00
Venue: Room A - Concord Ballroom, 5F, Keio Plaza Hotel
*Opening Ceremony is followed by Presidential Lecture on the same venue.

Welcome Reception
Date and Time: Monday, July 6, 19:30 - 21:30
Venue: Eminence Hall, 5F, Keio Plaza Hotel
Style: Buffet
*The reception fee is included in the registration fee

Banquet
Date and Time: Thursday, July 9, 19:00 - 21:00
Venue: Room A - Concord Ballroom, 5F, Keio Plaza Hotel
Style: Seated dinner
*Tickets can be purchased at 10000 JPY when you register. As the number of tickets is limited, it may not be available on-site. Banquet is only for participants and registered accompanying persons.
*The award ceremonies of Poster Award, Young Investigator’s Award, Women in Inflammation Science Award and Inflammation Lifetime Achievement Award will be held during the banquet.

Closing Ceremony
Date and Time: Friday, July 10, 12:10 - 12:30
Venue: Room A - Concord Ballroom, 5F, Keio Plaza Hotel
*Please note that the schedule is subject to change without prior notice due to unforeseen circumstances.
**Registration**

**Name Badges:**
Please wear your name badge at all times during the congress for identification and security purpose. Only registered participants wearing a name badge will be allowed access to the session rooms and social programs.

**Registration Desk:**
In front of Room HANA, 4F, Keio Plaza Hotel

**Registration Opening Hours:**

- July 6 (Mon.) 15:30 – 20:00
- July 7 (Tue.) 8:00 – 18:00
- July 8 (Wed.) 8:30 – 19:30
- July 9 (Thur.) 8:30 – 17:30
- July 10 (Fri.) 8:30 – 11:00

**To All Pre-Registered Participants:**
Please remember to bring your confirmation which you printed out of the registration page to the congress venue to pick up your congress kit upon arrival.

**Registration Fees (in Japanese Yen):**

<table>
<thead>
<tr>
<th>Registration Fees</th>
<th>Early-Registration (Already Closed)</th>
<th>Standard Pre-Registration &amp; Onsite Registration</th>
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<tbody>
<tr>
<td>Member (JSIR/IAIS)</td>
<td>40,000 JPY</td>
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<td>Banquet 3)</td>
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1) Student participant is required to bring a student ID and/or an official letter proving status to the Onsite Registration Desk.
2) Accompanying person must be a spouse or a family member of the registered participant.
3) July 9, 19:00 – 21:00 Room A

**Entitlements:**
Regular participants’ and students’ registration includes:

- Participation in the Scientific Program
- Final Program & Abstract Book
- Congress Bag
- Welcome Reception
- Luncheon Seminars (Lunch box will be served before the session starts)
Accompanying persons’ registration includes;

Welcome Reception
Accompanying persons’ program

Payment Method:

Payment must be made in JPY (Japanese Yen), by cash or with major credit cards at the congress site. Please note that neither personal checks nor any other currencies will be accepted.
Credit Card: American Express, Visa, MasterCard, Diners Club and JCB are acceptable.

Certificate of Attendance:

Certificate of attendance will be given to all registered participants at the registration desk.

Final Program & Abstract Book:

Additional copies can be purchased at the prices below at the registration desk;

Final Program ........... 1,000 JPY
Abstract Book ........... 3,000 JPY

Instructions for Speakers

Workshop (Oral) session

Length of Presentation:

Presentation: 4 minutes, Discussion: 2 minutes, Setting: 1 minute
Total: 7 minutes

Equipment:

- Each oral session room will be equipped with a Windows PC, a projector, a screen, a table microphone, aisle microphones, and a laser pointer.
- The operating system will be Windows XP Professional, and software will include: Microsoft PowerPoint 2003 and 2007.

Speaker Ready Room:

Room Keyaki, 4F, Keio Plaza Hotel
Opening Hours:
Monday, July 6  15:30 – 19:00
Tuesday, July 7  8:00 – 18:00
Wednesday, July 8  8:30 – 19:30
Thursday, July 9  8:30 – 17:30
Friday, July 10  8:30 – 13:30

• All speakers are requested to come to the Speaker Ready Room at least 1 hour in advance of their presentations to verify if the data will function properly on the equipment provided.
• Speakers will use PowerPoint presentations. All presentations will be loaded onto a server (in the Speaker Ready Room) and distributed to the appropriate session room at the appropriate time via a LAN.

PowerPoint Presenters:
• Bring your presentation on a Windows readable USB flash Drive or a CD-ROM.
• Make sure that you close or “finalize” your presentation file when create a CD. If you omit this step, you cannot access the CD from any other computer.
• Only the standard fonts (e.g., Times Roman, Helvetica, Arial, Times New Roman) are accepted for your presentation file, and unusual fonts may not be displayed properly on the computers in session rooms.
• Include any external files utilized, e.g. movie files in the same folder as your presentation. Copy the entire folder to the USB flash Drive or CD ROM.
• Video clips (other than certain animated gif files) are not embedded in PowerPoint presentations; you will need to bring the separate video files with you and submit them along with your presentation file.
• The computers in the session room and speaker ready room will support Windows PC only.

(No Macintosh Computers)

Users of Macintosh Computers:
• You should bring your own Macintosh since there would be technical issues that can arise when PowerPoint files created on a Mac are run on a Windows PC.

Laptops:
• Speakers using their own laptops MUST HAVE a VGA D-sub 15 pin female output. Special video output cable is required for some laptops to use the D-sub 15pin to connect to external monitors and data projectors. Please note that we are not equipped with that special cable and you must bring it in case it is necessary.
The laptop output resolution should be no more than XGA (1024 × 768). The higher resolutions than the native resolution (1024 × 768) would possibly lose some information or not project by forcing the data projector into a compression mode.

Slide Projection of 2x2 slides and Overhead Projectors are NOT provided.
Poster session

Discussion:
July 7 (Tue.)  19:00 – 21:00
July 8 (Wed.)  19:00 – 21:00
• Poster presentation is free discussion without moderators. Presenters are required to stand in front of their poster to answer questions from participants during specified discussion time.

Display:
• Posters should be brought to the congress and not mailed, as the Organizing Committee cannot be responsible for loss or mishandling.
• Presenters are responsible for posting and removing their own materials.
• Audio-visual equipment may not be used.

Please refer to the following poster image for your poster.

• Your poster program number will be posted on your assigned board.
• Please present a label showing the title, institution and the speaker’s name.
• Pins for mounting will be available at the hall.

Poster Hung Up Schedule (July 7 and July 8)
Set-up Time: 8:30 - 11:00
Removal Time: 21:00 - 21:30
Contacts

Congress Secretariat:
(During the congress, July 6 – 10, 2009)
Room Azalea, 5F, Keio Plaza Hotel
TEL: 03-3344-0111 (Ask for Room Azalea)
(Except congress period)
c/o: Japan Convention Services, Inc.
Daido Seimei Kasumigaseki Bldg. 18F
1-4-2, Kasumigaseki, Chiyoda-ku, Tokyo 100-0013, JAPAN
Phone: +81-3-3508-1214 Fax: +81-3-3508-1302
Email: wci2009@convention.jp

Congress Website:
http://www2.convention.co.jp/wci2009

IAIS Website:
http://www.inflammationsocieties.org

Acknowledgement to Package Sponsors:

Diamond Sponsors

Platinum Sponsors
## Program at a Glance

### Monday, July 6

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- **Keynote Lecture 3**
  - Chair: Makayuki Miyazaki
  - Tadatsugu Taniguchi

- **Morning Symposium 1**
  - Chair: Yoichiro Iwakura, Joost J. Oppenheim

- **Special Lecture 1**
  - 12:10
    - Luncheon Seminar 1
      - Chair: Ian Ahnfelt-Ronne
      - Novo Nordisk A/S
  - 13:10
    - Luncheon Seminar 2
      - Chair: Takao Koske
      - Wyeth K.K.
      - Takadera Pharmaceutical Company Limited

- **Luncheon Seminar 3**
  - Chair: Nobuyuki Miyasaka
  - Antillus Pharma Inc.
  - Pfizer Japan Inc.

- **Exhibition & Poster**
  - Poster Set Up
  - 10:00
  - 12:00
  - 14:00
  - 16:00
  - 18:00

- **Open Ceremony**
  - 16:45
  - 18:45

- **Award Lecture**
  - 17:30
  - 18:30

- **Workshop**
  - 12:10
  - 13:10
  - 14:10
  - 15:10

- **Science Award**
  - 16:30
  - 17:00

- **Opening Lecture**
  - 16:45
  - 18:45

- **Presidential Lecture**
  - 17:30
  - 18:30

- **Banquet**
  - 19:30
  - 21:30

- **Welcome Reception**
  - 19:00
  - 21:00

- **Poster Discussion with Wine and Cheese**
  - 19:00
  - 21:00

- **Poster Removal**
  - 19:00
  - 21:00
### Time Table

**Ballroom AB**

14:00 - 15:00: Opening Ceremony
15:00 - 16:00: Keynote Lecture 1
16:00 - 17:00: Keynote Lecture 2
17:00 - 18:00: Keynote Lecture 3
18:00 - 19:00: Keynote Lecture 4
19:00 - 20:00: Keynote Lecture 5
20:00 - 21:00: Keynote Lecture 6

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**Room Hana**

14:00 - 15:00: Poster Discussion with Wine and Cheese
15:00 - 16:00: Luncheon Seminar 1
16:00 - 17:00: Luncheon Seminar 2
17:00 - 18:00: Luncheon Seminar 3
18:00 - 19:00: Luncheon Seminar 4
19:00 - 20:00: Luncheon Seminar 5
20:00 - 21:00: Luncheon Seminar 6
21:00 - 22:00: Luncheon Seminar 7

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**Ballroom C**

14:00 - 15:00: Industry Sponsored Symposium 1
15:00 - 16:00: Industry Sponsored Symposium 2
16:00 - 17:00: Industry Sponsored Symposium 3
17:00 - 18:00: Industry Sponsored Symposium 4
18:00 - 19:00: Industry Sponsored Symposium 5
19:00 - 20:00: Industry Sponsored Symposium 6
20:00 - 21:00: Industry Sponsored Symposium 7

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**Room A**

14:00 - 15:00: Society Sponsored Symposium 1
15:00 - 16:00: Society Sponsored Symposium 2
16:00 - 17:00: Society Sponsored Symposium 3
17:00 - 18:00: Society Sponsored Symposium 4
18:00 - 19:00: Society Sponsored Symposium 5
19:00 - 20:00: Society Sponsored Symposium 6
20:00 - 21:00: Society Sponsored Symposium 7

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**Room B**

14:00 - 15:00: Workshop 1
15:00 - 16:00: Workshop 2
16:00 - 17:00: Workshop 3
17:00 - 18:00: Workshop 4
18:00 - 19:00: Workshop 5
19:00 - 20:00: Workshop 6
20:00 - 21:00: Workshop 7

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**Room C**

14:00 - 15:00: Exhibition & Poster
15:00 - 16:00: Poster Discussion with Wine and Cheese

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**Room A**

14:00 - 15:00: Poster Removal
### Wednesday, July 8

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#### Keynote Lectures
- **9:00** - **9:50**  
  - **Keynote Lecture 4**  
  - Chair: Kazuhiko Yamamoto  
  - Abul K Abbas

#### Morning Symposia
- **10:00** - **12:00**  
  - **Morning Symposium 2**  
  - Chair: Steven L. Kunkel, Robert M. Strieter

#### Luncheon Seminars
- **12:10** - **13:10**  
  - **Luncheon Seminar 4**  
  - Chair: Norihisa Makada  
  - Kyowa Hakko Koei Co., Ltd.
  - **Luncheon Seminar 5**  
  - Chair: Yojiro Tanaka  
  - Zeria Kogyo Co., Ltd.
  - **Luncheon Seminar 6**  
  - Chair: Hiroshi Takayanagi  
  - TELJIN Pharma Limited

### Thursday, July 9

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#### Keynote Lectures
- **9:00** - **9:50**  
  - **Keynote Lecture 5**  
  - Chair: Lisa Marshall  
  - Thomas J Schall

#### Morning Symposia
- **10:00** - **12:00**  
  - **Morning Symposium 3-1**  
  - Chair: Shinichi Kawai, James Winkler
  - **Morning Symposium 3-2**  
  - Chair: Tatsutoshi Nakahata, Hideyuki Okano

#### Luncheon Seminars
- **12:10** - **13:10**  
  - **Luncheon Seminar 7**  
  - Chair: Tsuneyo Mimosi  
  - Ono Pharmaceutical Co., Ltd.

#### Industry Sponsored Symposium
- **12:10**  
  - **Industry Sponsored Symposium 4**  
  - Chair: Toshifumi Hibi, Masayuku Miyasaka  
  - Mitsubishi Tanabe Pharma Corporation

### Friday, July 10

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#### Keynote Lectures
- **9:00** - **9:50**  
  - **Keynote Lecture 6**  
  - Chair: Yasuhiko Tabata  
  - Robert M Nerem

#### Morning Symposia
- **10:00** - **12:00**  
  - **Morning Symposium 4-1**  
  - Chair: Nobuyuki Miyasaka, Ian Ahnfelt-Ronne
  - **Morning Symposium 4-2**  
  - Chair: Minoru Ueda, Teruo Okano

#### Closing Remarks
- **12:15** - **13:15**
### Poster Discussion with Wine and Cheese

*Discussion Leader: Teizo Yoshimura*

### Industry Sponsored Symposium 3

**Chair:** Ruichi Monta, Noboru Mizushima  
*Abbott Japan Co., Ltd. / Eisai Co., Ltd.*

### Society Sponsored Symposium 4

**Chair:** Paul Kirkham, Graham Wallace  
*BIRA - British Inflammation Research Association*

### Society Sponsored Symposium 5

**Chair:** Ilia Vargaftig, Mauro Tenza  
*BIS - Brazilian Inflammation Society*

### Society Sponsored Symposium 6

**Chair:** Vincent Lagente, Laurent Baud  
*Groupe de Recherche et d’Etude des Maladies de l’Inflammation (France)*

### Society Sponsored Symposium 7

**Chair:** Jian-Ping Zuo, Yanyun Zhang  
*Chinese Inflammation Research Group*

### Young Investigator’s Award Contests’ Session (Van Arman Award)

**Chair:** Gordon Letts, Richard P. Carlson

### Women in Inflammation Science Award Lecture

**Chair:** Lisa Marshall

### Inflammation Lifetime Achievement Award Lecture

**Chair:** Koji Matsushima

### Poster Discussion with Wine and Cheese

*Discussion Leader: Teizo Yoshimura*
Program
July 6 (Mon) 16:30 - 17:00  Room A  
Opening Ceremony

July 6 (Mon) 17:00 - 17:30  Room A  
**Presidential Lecture**

Chemokines: From Discovery to Clinical Development  
Chairperson: Shinichi Kawai (Division of Rheumatology, Department of Internal Medicine, Toho University School of Medicine, Japan)  
Speaker: Kouji Matsushima (Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan)

July 6 (Mon) 17:30 - 18:30  Room A  
**Keynote Lecture 1**

From IL-6 to TH17; Why Is Anti-IL6R (Tocilizumab) Effective on Autoimmune Diseases?  
Chairperson: Nobuyuki Miyasaka (Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan)  
Speaker: Tadamitsu Kishimoto (Laboratory of Immune Regulation, Graduate School of Frontier Biosciences, Osaka University, Japan)

July 6 (Mon) 18:30 - 19:30  Room A  
**Keynote Lecture 2**

Induction of Pluripotency by Defined Factors  
Chairperson: Makoto Asashima (Graduate School of Arts and Sciences, The University of Tokyo, Japan)  
Speaker: Shinya Yamanaka (Center for iPS Cell Research and Application, Institute for Integrated Cell-Material Sciences / Department of Stem Cell Biology, Institute for Frontier Medical Sciences, Kyoto University, Japan)
July 7 (Tue) 9:00 - 9:50 Room A

Keynote Lecture 3

Nucleic Acids-sensing, Signaling and IRF Transcription Factors in Inflammation and Immunity

Chairperson: Masayuki Miyasaka (Laboratory of Immunodynamics, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Japan)

Speaker: Tadatsugu Taniguchi (Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Japan)

July 7 (Tue) 10:00 - 12:00 Room A

Morning Symposium 1

Molecular Basis of Inflammation and Innate Immunity

Chairpersons: Yoichiro Iwakura (Center of Experimental Medicine, Institute of Medical Science, The University of Tokyo, Japan)

Joost J Oppenheim (Laboratory of Molecular Immunoregulation, Cancer and Inflammation Program, Center for Cancer Research, National Cancer Institute, National Institutes of Health, USA)

MS01.1 NEGATIVE REGULATION OF TLR RESPONSE
Shizuo Akira
Laboratory of Host Defense, WPI Immunology Frontier Research Center, Osaka University, Japan

MS01.2 ACTIVATION OF INNATE IMMUNE REACTION BY MAMMALIAN DNA THAT ESCAPED FROM DEGRADATION, LEADING TO ANEMIA AND ARTHRITIS
Shigekazu Nagata
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Japan

MS01.3 THE ROLES OF IL-17A AND IL-17F IN INFLAMMATION AND HOST DEFENSE AGAINST BACTERIA
Yoichiro Iwakura
Center for Experimental Medicine, Institute of Medical Science, The University of Tokyo, Japan

MS01.4ALARMIN ACTIVATE IMMUNE RESPONSES BY INDUCING DENDRITIC CELL CHEMOTAXIS AND MATURATION
Joost J Oppenheim(1), P Tewary(1), G de la Rosa(1), D Yang(2)
(1) Laboratory of Molecular Immunoregulation, Cancer and Inflammation, Program. Center for Cancer Research, National Cancer Institute, National Institutes of Health, USA, (2) BRP, SAIC-Frederick Inc., Frederick, M.D., USA
July 7 (Tue) 13:30 - 14:15 Room A

**Special Lecture 1**

**Natural Human CD4⁺CD25high Tregs and Th17 Effector Cells**

Chairperson: Kazuhiko Yamamoto (Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Japan)

Speaker: David A Hafler (Division of Molecular Immunology, Center for Neurologic Diseases, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts, USA)

G Beriou, L Yang, D Anderson, VK Kuchroo, C Baecher-Allan

Division of Molecular Immunology, Center for Neurologic Diseases, Brigham and Women’s Hospital, Harvard Medical School, Boston, Massachusetts, USA

July 7 (Tue) 14:30 - 16:30 Room A

**Industry Sponsored Symposium 1**

**Role of Inflammation in the Etiology of Obstructive Lung Diseases and the Treatment Strategy**

Chairpersons: Shoji Kudoh (Double-Barred Cross Hospital, Japan Anti-Tuberculosis Association, Japan)

Hajime Takizawa (Fourth Department of Internal Medicine, Teikyo University, School of Medicine, Japan)

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**ISS01.1**  **PATHOGENESIS AND TREATMENT OF DIFFUSE PANBRONCHIOLITIS**

Jun Tamaoki  
First Department of Medicine, Tokyo Women’s Medical University, Tokyo, Japan

**ISS01.2**  **ROLE OF INFLAMMATION IN THE PATHOGENESIS OF ASTHMA**

Mitsuru Munakata  
Department of Pulmonary Medicine, School of Medicine, Fukushima Medical University, Fukushima, Japan

**ISS01.3**  **AGING ENHANCES SUSCEPTIBILITY TO CIGARETTE SMOKE-INDUCED INFLAMMATION**

Tomoko Betsuyaku  
First Department of Medicine, Hokkaido University School of Medicine, Japan

**ISS01.4**  **TARGETING CHEMOKINE RECEPTORS: A NOVEL ORAL CXCR2 ANTAGONIST SB-656933 FROM DISCOVERY TO CLINICAL DEVELOPMENT**

Ruth Tal-Singer  
Respiratory Centre for Excellence for Drug Discovery, GlaxoSmithKline King of Prussia, PA, USA

Sponsored by GlaxoSmithKline K. K.
Industry Sponsored Symposium 2

IL-6 in Autoimmunity and Inflammation

Chairpersons: Kazuyuki Yoshizaki (Center for Advanced Science and Innovation, Osaka University, Japan)
Chen Dong (Department of Immunology, University of Texas, MD Anderson Cancer Center, USA)

ISS02.1
IL-6 IN REGULATION OF NOVEL SUBSETS OF T CELLS
Chen Dong
Department of Immunology, University of Texas, MD Anderson Cancer Center, Houston, USA

ISS02.2
IS DYSREGULATION OF IL-6 AMPLIFIER A KEY EVENT OF RHEUMATOID ARTHRITIS?
Toshio Hirano
Laboratory of Developmental Immunology and the CREST Program of the Japan Science and Technology Agency, Graduate School of Frontier Biosciences, Graduate School of Medicine, and WPI Immunology Frontier Research Center, Osaka University, Osaka and Laboratory of Cytokine Signaling, RIKEN Research Center for Allergy and Immunology, Yokohama, Japan

ISS02.3
A CRUCIAL ROLE OF IL-6/IL-17 CYTOKINE AXIS IN THE GENERATION OF GLUCOSE-6-PHOSPHATE ISOMERASE-INDUCED ARTHRITIS
Isao Matsumoto
Division of Clinical Immunology, Doctoral Program in Clinical Science, Graduate of Comprehensive Human Sciences, University of Tsukuba, Japan

ISS02.4
ROLE OF IL-6 BLOCKING THERAPY FOR IMPROVEMENT OF AUTOIMMUNE DISEASE IN CHRONIC INFLAMMATORY STATUS
Kazuyuki Yoshizaki
Center for Advanced Science and Innovation, Osaka University, Japan

Sponsored by Chugai Pharmaceutical Co., Ltd.

Luncheon Seminar 1

Disease Association of IL-20 with Arthritis

Chairperson: Ian Ahnfelt-Ronne (BRU Pharmacology, Novo Nordisk A/S, Denmark)

LS01.1
EVIDENCE THAT CYTOKINES PLAY A ROLE IN RHEUMATOID ARTHRITIS
Iain B McInnes
Glasgow Biomedical Research Centre, University of Glasgow, Scotland
LS01.2 A ROLE OF IL-20 IN RHEUMATOID ARTHRITIS?
Paul Peter Tak(1), J Rømer(2), MC Lebre(1), CL Jonckheere(1), MS Fjording(2), KS Frederiksen(2)
(1)Division of Clinical Immunology & Rheumatology, Academic Medical Center/University of Amsterdam, the Netherlands, (2) Biopharmaceuticals Research Unit, Novo Nordisk A/S, Copenhagen, Denmark

Sponsored by Novo Nordisk A/S

July 7 (Tue) 14:30 - 16:30
Room B

Society Sponsored Symposium 1

Translational Medicine Approaches to Improve the Probability of Success for Inflammation Drug Development

Chairpersons: Lisa Marshall (Inflammatory Diseases, Johnson and Johnson Pharmaceuticals, USA)
James Winkler (Discovery and Translational Biology, Array BioPharma Inc., USA)

SSS01.2 SUCCESSES AND FAILURES OF BIOMARKER USE IN PHASE I/2A CLINICAL TRIALS TARGETING INFLAMMATORY DISEASES
Lisa Marshall
Early Development, Johnson and Johnson Pharmaceuticals, USA

SSS01.3 AUTOMATED CHEMOTAXIS DRUG SCREENING SYSTEM BASED ON TAXIScan TECHNOLOGY
Shiro Kanegasaki
Central Lab, ECI, Inc., Japan

SSS01.1 SYNOVIAL BIOPSIES: USE AS A PREDICTIVE MARKER OF TREATMENT EFFICACY IN EARLY DEVELOPMENT
Daniëlle Gerlag
Division of Clinical Immunology and Rheumatology, University of Amsterdam, the Netherlands

SSS01.4 DISSECTING THE ROLES OF P38 AND MEK: LINKS BETWEEN PRECLINICAL AND CLINICAL RESULTS
James Winkler, L Jackson, D Wright, S Brown, M Callejo, J Pheneger, PA Lee, S Miller, K Koch, LL Carter
Discovery and Translational Biology, Array BioPharma Inc., USA

Sponsored by IRA - Inflammation Research Association (USA)
### 2. Basic Studies on Inflammation and Immunity

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<td>IDENTIFICATION OF A NOVEL PATHWAY INVOLVED IN THE CLEARANCE OF PHAGOCYTIC TARGETS IN VIVO</td>
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<td>[GA02.02 (O/P)]</td>
<td>Jenna Louise Cash, DR Greaves, A Christian</td>
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<td>Sir William Dunn School of Pathology, Oxford University, UK</td>
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<td><strong>WS01-02</strong></td>
<td>REGULATION OF CYTOTOXIC T LYMPHOCYTE ACTIVITY BY PIR-B EXPRESSED ON DENDRITIC CELLS</td>
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<td>[GA02.03 (O/P)]</td>
<td>Shota Endo, A Nakamura, T Takai</td>
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<td>Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, CREST, JST, Japan</td>
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<td><strong>WS01-03</strong></td>
<td>MEDULLARY ISLETS: POSSIBLE NICHE FOR THE DIFFERENTIATION AND SURVIVAL OF THE PLASMA CELLS IN THE REACTIVE LYMPH NODES</td>
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<td>[GA02.05 (O/P)]</td>
<td>Jun Abe(1), S Ueha(1), M Kurachi(1), Y Shono(1), H Yoneyama(2), K Matsushima(1)</td>
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<td>(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, University of Tokyo, Japan, (2) STELIC Institute, Japan</td>
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<td><strong>WS01-04</strong></td>
<td>CHEMOKINES IN INFLAMMATION: ENDOTHELIAL MICROVILLI FORMATION</td>
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<td>[GA02.08 (O/P)]</td>
<td>Jim Middleton, C Whittall, O Kehoe, S Turner</td>
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<td>Medical School, RJAH Orthopaedic Hospital, Keele University, UK</td>
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<td><strong>WS01-05</strong></td>
<td>RECOGNITION OF ORIENTIA TSUTSUGAMUSHI BY THE CYTOPLASMIC PATTERN RECOGNITION RECEPTORS</td>
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<td>[GA02.13 (O/P)]</td>
<td>Jung-Eun Koo(1), KS Kobayashi(2), Y-S Koh(1)</td>
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<td>(1) Department of Microbiology, Jeju National University School of Medicine, Korea, (2) Department of Cancer Immunology &amp; AIDS, Dana-Farber Cancer Institute and Department of Pathology, Harvard Medical School, Boston, USA</td>
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<td><strong>WS01-06</strong></td>
<td>NEWLY DESIGNED POTENT INHIBITORY OLIGODEOXYNUCLEOTIDE SUPPRESSES CPG -INDUCED TNFA, MIP-2, AND NO PRODUCTION</td>
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<td>[GA02.15 (O/P)]</td>
<td>Hiroshi Yamada, O Yamaguchi, S Nagai, Y Sugawara, T Miki, Y Yamaguchi, Y Hamada</td>
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<td>Division of Critical Care, Yokohama City University Medical Center, Japan</td>
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WS01-07
[GA02.17 (O/P)]
A ROLE FOR GLYCOGEN SYNTHASE KINASE 3 IN THE NEGATIVE REGULATION OF IL-10 EXPRESSION IN MYCOBACTERIAL INFECTION
Allan Lau, M Chan, B Cheung, J Li, L Chan
Department of Paediatrics and Adolescent Medicine, The University of Hong Kong, Hong Kong, China

WS01-08
[GA02.20 (O/P)]
A CRITICAL ROLE OF IL-6-INDUCED STAT3 ACTIVATION ON TRANSCRIPTIONAL REGULATION OF ACUTE PHASE PROTEINS, SAA AND CRP, IN INFLAMMATION
Teppei Nishikawa, J Song, K Yoshizaki
Center for Advanced Science and Innovation, Osaka University, Japan

WS01-09
[GA02.21 (O/P)]
AMPK ACTIVATION LEADS TO P38 MAPK ACTIVATION AND COX-2 GENE EXPRESSION
Mei Ying Chang, ZX Ye
Department of Pharmacology, National Taiwan University, Taiwan

WS01-10
[GA02.22 (O/P)]
MAINTENANCE OF MEMORY CD8 T CELL DIVERSITY AND PROLIFERATIVE POTENTIAL BY A PRIMARY RESPONSE UPON RE-CHALLENGE
Makoto Kurachi(1), K Kakimi(2), S Ueha(1), J Abe(1), F Suenaga(1), K Kajiro(1), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Immunotherapeutics (Medinet), Graduate School of Medicine, The University of Tokyo, Japan

WS01-11
[GA02.23 (O/P)]
IDENTIFICATION OF A NOVEL EGR-2 DEPENDENT IL-10-SECRETING CD4+CD25-LAG3+ REGULATORY T CELL
Tomohisa Okamura(1), F Keishi(1), M Shibuya(1), S Sumitomo(1), H Shoda(1), S Sakaguchi(2), K Yamamoto(1)
(1) Department of Allergy and Rheumatology, University of Tokyo, Japan, (2) Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University, Japan

WS01-12
[GA02.28 (O/P)]
FORCED EXPRESSION OF SOCS5 IN T CELLS PROLONGS THE SEVERITY OF MURINE ARTHRITIS INDUCED BY ANTI-TYPE II COLLAGEN ANTIBODY
Tomohiro Takahata(1), S Fushimi(2), A Hida(2), T Ozaki(1), K Nishida(1), M Kubo(3), A Matsukawa(2)
(1) Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine, Japan, (2) Department of Pathology and Experimental Medicine, Okayama University, Japan, (3) Laboratory for Signal Network, Research Center for Allergy and Immunology, RIKEN Yokohama Institute, Yokohama, Japan

WS01-13
[GA02.30 (O/P)]
ROLE AND MECHANISMS OF REACTIVE ASTROCYTE S MIGRATION AFTER SPINAL CORD INJURY
Francois Renault-Mihara(1), M Mukaino(2), M Nakamura(2), Y Toyama(2), H Okano(1)
(1) Physiology, Keio University School of Medicine, Japan, (2) Department of Orthopedic Surgery, Keio University School of Medicine, Japan
WS01-14  
[GA02.31 (O/P)]  
**ABSENCE OF SPRED-2 ENHANCES INNATE IMMUNITY DURING SEPTIC PERITONITIS**  
Yasumasa Okazaki(1), S Fushimi(1), M Yashiro(1), H Wakabayashi(1), A Yoshimura(2), A Matsukawa(1)  
(1) Department of Pathology and Experimental Medicine, Okayama University, Japan,  
(2) Division of Molecular and Cellular Immunology, Medical Institute of Bioregulation, Kyushu University, Japan

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WS01-15  
[GA02.34 (O/P)]  
**THE ROLE OF TLR4 SIGNALING IN PATHOGENESIS OF AUTOIMMUNE DISEASE IN A RETINAL AUTOIMMUNITY MODEL**  
Shao-Bo Su  
State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, China

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WS01-16  
[GA02.37 (O/P)]  
**ENHANCED SKIN WOUND HEALING IN PDLIM2-DEFICIENT MICE**  
Takashi Tanaka(1), T Kaisho(2)  
(1) Inflammatory Regulation, RIKEN Research Institute for Allergy and Immunology, Japan,  
(2) Laboratory for Host Defence, RIKEN Research Institute for Allergy and Immunology, Japan

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**July 7 (Tue) 12:10 - 13:10**  
**Room C**

**Luncheon Seminar 2**

Chairperson: Takao Koike (Department of Medicine, Clinical Immunology and Metabolism, Internal Medicine, Graduate School of Medicine, Hokkaido University, Japan)

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**LS02**  
**TNF INHIBITION: A QUANTUM LEAP IN THERAPY OF RHEUMATIC DISEASES**  
Wayne H Tsuji  
Medical Director, Medical Science Amgen Inc., Clinical Associate Professor, University of Washington, Seattle, USA

*Sponsored by Wyeth K.K. / Takeda Pharmaceutical Company Limited.*
Society Sponsored Symposium 2

Bioactive Lipids and the Inflammatory Response; Cellular and Molecular Mechanisms

Chairperson: John A. Di Battista (Department of Medicine, McGill University and the Division of Rheumatology, McGill University Health Centre, Montreal, Quebec, Canada)

SSS02.1 IMPACT OF PROSTAGLANDIN E2 AND CYCLIC AMP-ELEVATING AGENTS ON THE GENE EXPRESSION PROFILE OF STIMULATED HUMAN NEUTROPHILS: UNRAVELING ENDOGENOUS RESOLUTION PATHWAYS
Marc Pouliot
Centre de Recherche en Rhumatologie et Immunologie, Centre de Recherche du CHUQ-CHUL et Université Laval, Québec, Canada

SSS02.2 AUTOTAXIN AND LYSOPHOSPHOLIPIDS IN RHEUMATOID ARTHRITIS
Sylvain G Bourgoin, C Zhao, PE Poubelle, MJ Fernandes
Centre de Recherche en Rhumatologie et Immunologie, Centre de Recherche du CHUQ-CHUL et Université Laval, Québec, Canada

SSS02.3 PHOSPHOLIPASES A2 IN THE LIFE AND DEATH OF HUMAN OSTEOCLASTS
Artur J de Brum-Fernandes, H Allard-Chamard
Division of Rheumatology, Faculté de médecine et des sciences de la santé, Université de Sherbrooke, Québec, Canada

SSS02.4 MODULATION OF THE INFLAMMATORY AND CATABOLIC RESPONSE BY PROSTAGLANDIN E2 (PGE2) IS PARTIALLY DEPENDENT ON THE INDUCTION OF DUAL SPECIFICITY PHOSPHATASE 1 (DUSP-1) IN VITRO AND IN VIVO
John A Di Battista, QW He, B Zhai, A Mancini
Department of Medicine, McGill University and the Division of Rheumatology, McGill University Health Centre, Montreal, Quebec, Canada

Sponsored by CAN - Canadian Arthritis Network
5. Inflammatory Mediators, Such As Lipid Mediators, Coagulation, Complements, Cytokines, Chemokines, Free Radicals, and Proteases

WS02-01 [GA05.06 (O/P)]
**PGE₂-DEPENDENT IMPAIRMENT OF NEUTROPHIL APOPTOSIS DURING INFLAMMATION IN MMP-9 KNOCKOUT MICE**
Elzbieta Kolaczkowska(1), B Płtycz(1), B Arnold(2), G Opdenakker(3)
(1) Department of Evolutionary Immunobiology, Jagiellonian University, Poland, (2) Laboratory for Molecular Immunology, German Cancer Research Center, Heidelberg, Germany, (3) Laboratory of Immunobiology, Rega Institute for Medical Research, University of Leuven, Belgium

WS02-02 [GA05.09 (O/P)]
**CC CHEMOKINE RECEPTOR 5-DEPENDENT ENDOTHELIAL PROGENITOR CELL HOMING TO SKIN WOUND IN MICE**
Yuko Ishida(1), M Inui(2), A Kimura(1), Y Kuninaka(1), K Matsushima(3), N Mukaida(4), T Kondo(1)
(1) Department of Forensic Medicine, Wakayama Medical University, Japan, (2) Department of Molecular Immunology, Institute of Advanced Medicine, Wakayama Medical University, Japan, (3) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (4) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan

WS02-03 [GA05.12 (O/P)]
**ADMINISTRATION OF IL-33 INDUCES AIRWAY HYPERRESPONSIVENESS AND GOBLET CELL HYPERPLASIA IN THE LUNGS IN THE ABSENCE OF ADAPTIVE IMMUNE SYSTEM**
Koubun Yasuda(1), Y Kondo(2), T Yoshimoto(1), J Fujimoto(2), K Nakanishi(1)
(1) Department of Immunology, Hyogo College of Medicine, Japan, (2) Department of Surgery, Hyogo College of Medicine, Japan

WS02-04 [GA05.13 (O/P)]
**DEFICIENCY OF PGD₂ RECEPTORS, DP AND CRTH2, ENHANCES CONTACT HYPERSENSITIVITY**
Yoshihiro Yamamoto(1), T Sato(1), S Otani(1), H Hirai(2), S Narumiya(3), H Yokozeki(1), M Nakamura(4)
(1) Department of Dermatology, Tokyo Medical and Dental University, Japan, (2) BML, Inc., Japan, (3) Department of Pharmacology, Faculty of Medicine, Kyoto University, Japan, (4) Human Gene Sciences Center, Tokyo Medical and Dental University, Japan

WS02-05 [GA05.15 (O/P)]
**PATHOGENIC ROLE OF CXCR7 IN RHEUMATOID ARTHRITIS**
Kaori Watanabe(1), T Nanki(1), K Kaneko(1), TJ Schall(2), N Miyasaka(1)
(1) Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan, (2) Chemo Centryx, CA, USA.
WS02-06  [GA05.18 (O/P)]
ADENOVIRUS-MEDIATED ELAFIN EXPRESSION PROTECTS AGAINST DEXTRAN SODIUM SULPHATE (DSS)-INDUCED COLITIS
Nathalie Vergnolle(1), J-P Motta(1), E D’Aldebert(1), L Martin(1), M Chignard(2), J-M Sallenave(2)
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Institut Pasteur, Paris, France

WS02-07  [GA05.19 (O/P)]
PROTEASE-ACTIVATED RECEPTOR-4 (PAR4) ACTIVATION: EVIDENCES FOR ITS ROLE AND ACTIVATION IN THE PATHOGENESIS OF COLITIS AND IN INFLAMMATORY BOWEL DISEASES
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Division of Gastroenterology, University of Calgary, Canada, (3) Inflammation Research Network, University of Calgary, Canada, (4) Pole Digestif, CHU Purpan, Toulouse, France

WS02-08  [GA05.24 (O/P)]
GROUP III PHOSPHOLIPASE A2, AN ENDOGENOUS BEE VENOM PHOSPHOLIPASE A2 HOMOLOG, IS A REGULATOR OF MAST CELL MATURATION AND FUNCTIONS
Yoshitaka Taketomi(1), H Sato(1), S Tanaka(2), H Otsuka(3), K Yamamoto(1), M Nakamura(3), Y Sugimoto(4), I Kudo(5), S Hara(5), M Murakami(1)
(1) Biomembrane Signaling Project, Tokyo Metropolitan Institute of Medical Science, Japan, (2) Department of Immunobiology, School of Pharmaceutical Sciences, Mukogawa Women’s University, Japan, (3) Department of Oral Anatomy and Developmental Biology, School of Dentistry, Showa University, Japan, (4) Department of Physiology, Showa University, Japan, (5) Department of Health Chemistry, School of Pharmacy, Showa University, Japan

6. Receptors, Signaling Molecules, Nuclear Factors, Protein Kinases/Phosphatases, Enzymes, System Biology

WS02-09  [GA06.01 (O/P)]
SIGNAL ADAPTOR DAP10 ASSOCIATES WITH MDL-1 AND TRIGGERS OSTEOCLASTOGENESIS IN COOPERATION WITH DAP12
Shion Fujimura(1), M Inui(1), Y Kikuchi(1), N Aoki(2), S Endo(1), T Maeda(1), A Sugahara-Tobinai(1), A Nakamura(1), A Kumanogoh(3), M Colonna(4), T Takai(1)
(1) Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, Japan, (2) Department of Pathology, Asahikawa Medical College, Japan, (3) Department of Immunopathology, Research Institute for Microbial Diseases, Osaka University, Japan, (4) Department of Pathology and Immunology, Washington University School of Medicine, USA

WS02-10  [GA06.04 (O/P)]
FAS MEDIATED CASPASE-INDEPENDENT CELL DEATH AND INFLAMMATORY RESPONSES
Wan-Wan Lin(1), T-Y Chen(1), J-S Wang(1), C-L Chien(2)
(1) Department of Pharmacology, National Taiwan University, Taiwan, (2) Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan

WS02-11  [GA06.17 (O/P)]
WITHDRAWN
WS02-12  [GA06.18 (O/P)] IFN-GAMMA PLAYS A PROTECTIVE ROLE IN CISPLATIN-INDUCED RENAL INJURY THROUGH REGULATION OF AUTOPHAGY
Akihiko Kimura(1), Y Ishida(1), N Mukaida(2), T Kondo(1)
(1) Department of Forensic Medicine, Wakayama Medical University, Japan, (2) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan

WS02-13  [GA06.19 (O/P)] FC RECEPTOR γ-CHAIN IS A SUBUNIT OF THE IL-3 RECEPTOR, REQUIRED FOR IL-4 PRODUCTION BY MURINE BASOPHILS
Shigeaki Hida(1), Y Sakamoto(1), S Yamasaki(2), T Saito(2), S Taki(1)
(1) Department of Immunology and Infectious Diseases, Shinshu University Graduate School of Medicine, Japan, (2) Laboratory for Cell Signaling, RIKEN Research Center for Allergy and Immunology, Japan

WS02-14  [GA06.20 (O/P)] CCR2/5 ASSOCIATED FROUNT CONTROLS DIRECTIONALITY OF CELL MIGRATION
Etsuko Toda(1), Y Terashima(2), H Terasawa(3), S Kanegasaki(4), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, University of Tokyo, Japan, (2) Department of Molecular Preventive Medicine Graduate School of Medicine, University of Tokyo Japan and Central Lab, ECI, Inc., Tokyo, Japan, (3) Department of Structure-Function Physical Chemistry, Faculty of Medical and Pharmaceutical Sciences, Kumamoto University, Kumamoto, Japan, (4) Central Lab, ECI, Inc., Tokyo, Japan

WS02-15  [GA06.21 (O/P)] CPAP IS A COMPONENT OF NF-κB/P65 COMPLEX AND INVOLVED IN THE TNFα-INDUCED NF-κB MEDIATED GENE ACTIVATION
Shu-Ting Yang(1), L-Y Hung(2)
(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Taiwan, (2) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan

16. Others

WS02-16  [GA16.6 (O/P)] THE FUNCTIONAL ROLE OF THE BRAIN FINGER PROTEIN, ZNF179 IN NEURONAL DIFFERENTIATION
(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan, (2) School of Medicine and Health Sciences, Foo-Yin University, Kaohsiung, Taiwan, (3) Institute of Bioinformatics, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan, (4) Department of Pharmacology, College of Medicine, National Cheng-Kung University, Tainan, Taiwan, (5) Department of Pharmacology, College of Medicine, Center for Gene Regulation and Signal Transduction Research, National Cheng-Kung University, Tainan, Taiwan
July 7 (Tue) 12:10 - 13:10
Room D

Luncheon Seminar 3
Chairperson: Nobuyuki Miyasaka (Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan)

LS03
AN UPDATE ON COX-2 INHIBITOR’S CARDIOVASCULAR RISK
Gary W Williams
Chairman, Department of Medicine, Vice President, Medicine Services and Medical Director of Information Services, Scripps Clinic, Skaggs Scholar, The Scripps Research Institute, La Jolla, California, USA

Sponsored by Astellas Pharma Inc. / Pfizer Japan Inc.

July 7 (Tue) 14:30 - 16:30
Room D

Society Sponsored Symposium 3
The Control of Leukocyte Function in Inflammation
Chairpersons: Eric Morand (Centre for Inflammatory Diseases, Monash University, Monash Medical Centre Clayton, Melbourne, Australia)
John Hamilton (Arthritis and Inflammation Research Centre, The University of Melbourne, Department of Medicine, Royal Melbourne Hospital, Victoria, Australia)

SSS03.1
THE CONTROL OF MACROPHAGE PHENOTYPES IN INFLAMMATION
John A Hamilton, A Fleetwood, H Dinh, Y-M Deng, A Cook
Arthritis and Inflammation Research Centre, University of Melbourne, Department of Medicine, Royal Melbourne Hospital, Victoria, Australia

SSS03.2
MIF-PROMOTES LEUKOCYTE RECRUITMENT, VIA EFFECTS ON FUNCTION OF BOTH LEUKOCYTE AND ENDOTHELIAL CELLS
Michael J Hickey, H Fan, LL Santos, P Hall, Q Cheng, EF Morand
Centre for Inflammatory Diseases, Monash University Department of Medicine, Monash Medical Centre, Melbourne, Australia

SSS03.3
THE INTERPLAY BETWEEN TOLL-LIKE RECEPTOR AND CSF-1 SIGNALING CAN SET THE LEVEL OF Macrophage Activation
Glen M. Scholz, D De Nardo
Department of Medicine, University of Melbourne, Australia

SSS03.4
GILZ: A GLUCOCORTICOID - REGULATED MODULATOR OF INFLAMMATION - A ROLE IN RHEUMATOID ARTHRITIS -
Eric Morand, D Ngo, Y Yang, L Santos, Elaine Beaulieu
Centre for Inflammatory Diseases, Monash University, Monash Medical Centre Clayton, Melbourne, Australia

Sponsored by SCIL - Society for Cytokines, Inflammation and Leukocytes (Australia)
1. Disease Models

**WS03-01**

**SEVERE AND PROLONGED IRRITANT CONTACT DERMATITIS IN ZINC DEFICIENT MOUSE**

Tatsuyoshi Kawamura(1), Y Ogawa(1), A Izumi(2), T Kodama(2), S Shimada(1)

(1) Department of Dermatology, University of Yamanashi, Japan, (2) Laboratory for System Biology and Medicine, RCAST, University of Tokyo, Japan

**WS03-02**

**PIVOTAL ROLE OF CEREBRAL INTERLEUKIN-17-PRODUCING γδT CELLS IN THE LATE PHASE OF ISCHEMIC BRAIN INJURY**

Takashi Shichita(1), DJ Cua(2), Y Iwakura(3), M Iida(4), A Yoshimura(1)

(1) Department of Microbiology and Immunology, Keio University, School of Medicine, Japan, (2) Department of Immunology, DNAX Research Inc, California, USA, (3) Center for Experimental Medicine and Department of Cancer Biology, Institute of Medical Science, University of Tokyo, Tokyo, Japan, (4) Department of Medicine and Clinical Science, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan

**WS03-03**

**IFN-γ IS A THERAPEUTIC TARGET MOLECULE FOR PREVENTION OF POSTOPERATIVE ADHESION FORMATION**

Tomohiro Yoshimoto(1), H Kosaka(2), J Fujimoto(2), K Nakanishi(1)

(1) Department of Immunology and Medical Zoology, Hyogo College of Medicine, Japan, (2) Department of Surgery, Hyogo College of Medicine, Nishinomiya, Japan

**WS03-04**

**MOUSE FOLLISTATIN-RELATED PROTEIN (FRP/FSTL1) EXACERBATES THE INFLAMMATORY PROCESS OF ARTHRITIS, BUT HUMAN COUNTERPART GIVES AN OPPOSITE EFFECT**

Kosaku Murakami(1), M Takano(2), T Usui(1), S Kobayashi(3), D Kawabata(1), T Nojima(1), K Omura(1), T Fujii(1), T Mimori(1)

(1) Department of Rheumatology and Clinical Immunology, Kyoto University, Japan, (2) National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institute of Health, Japan, (3) Centor for Innovation in Immunoregulative Technology and Therapeutics, Kyoto University, Japan

7. Inflammatory Diseases (1)

**WS03-05**

**THE ROLE OF CHEMOKINE RECEPTORS, CCR2 AND CX3CR1, IN ARTHRITIS IN IL-1 RECEPTOR ANTAGONIST-DEFICIENT MICE**

Hiroshi Fuji(1), T Baba(2), R Hamano(1), M Kawan(1), M Yamagishi(3), N Mukaida(2)

(1) Division of Rheumatology, Department of Internal Medicine, Kanazawa University Graduate School of Medicine, Japan, (2) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan, (3) Division of Cardiology, Department of Internal Medicine, Kanazawa University Graduate School of Medicine, Japan
WS03-06  [GA07.09 (O/P)]  INFLAMMATORY RESPONSE TO CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS IN CHILDREN
Jaroslaw Pasnik(1), A Cywinska-Bernas(1), K Zeman(1), JA Moll(2), A Sysa(2), J Moll(3)
(1) Department of Pediatrics, Prevention Cardiology and Clinical Immunology, Medical University, Poland, (2) Department of Pediatric Cardiology, Polish Mother’s Health Hospital, Lodz, Poland, (3) Department of Pediatric Cardiosurgery, Polish Mother’s Health Hospital, Lodz, Poland

WS03-07  [GA07.11 (O/P)]  THROMBIN STIMULATES C-SRC/PKC-MEDIATED EGF RECEPTOR EXPRESSION AND CELL PROLIFERATION THROUGH EGF RECEPTOR AUTOREGULATION IN VASCULAR SMOOTH MUSCLE CELLS
Hsi-Lung Hsieh(1), C-M Yang(2)
(1) Department of Nursing, Chang Gung Institute of Technology, Taiwan, (2) Department of Pharmacology, Chang Gung University, Taiwan

WS03-08  [GA07.13 (O/P)]  EP3 RECEPTORS AS DOWNSTREAM EFFECTORS OF MPGES-1 NEUROTOXICITY IN STROKE INJURY
Yuri Ikeda-Matsuo(1), H Tanji(1), A Ota(1), S Uematsu(2), S Akira(2), S Narumiya(3), Y Sasaki(1)
(1) Laboratory of Pharmacology, School of Pharmaceutical Science, Kitasato University, Japan, (2) Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Japan, (3) Department of Pharmacology, Kyoto University Faculty of Medicine, Japan

WS03-09  [GA07.18 (O/P)]  COMBINED TREATMENT WITH ORAL THEOPHYLLINE AND INHALED CORTICOSTEROID IMPROVES LUNG FUNCTION AND REDUCED AIRWAY INFLAMMATION IN COPD PATIENTS
Ian M Adcock, AL Durham, REK Russell, PJ Barnes, PA Ford
Airways Disease Section, National Heart & Lung Institute, Imperial College London, UK

WS03-10  [GA07.19 (O/P)]  BINDARIT DECREASES MONOCYTE CHEMOATTRACTANT PROTEIN-1 URINARY EXCRETION IN HUMANS. A PILOT STUDY IN ACTIVE LUPUS NEPHRITIS PATIENTS.
Angelo Guglielmotti(1), G Orticelli(2), G Di Loreto(2), D Paolo(2)
(1) Department of Pharmacology, Angelini Research Center, Santa Palomba-Pomezia, Rome, Italy, (2) Headquarters Medical Department, Angelini Research Center, Santa Palomba-Pomezia, Rome, Italy

WS03-11  [GA07.21 (O/P)]  INVOLVEMENT OF KININS AND TACHYKININS ON THE DEVELOPMENT OF NASAL HYPERRESPONSIVENESS IN A POLLEN-INDUCED ALLERGIC RHINITIS MODEL
 Takeshi Nabe, M Fujii, S Kohno
Pharmacology, Kyoto Pharmaceutical University, Japan

WS03-12  [GA07.22 (O/P)]  “BONE MARROW GVHD”: EARLY DESTRUCTION OF BONE MARROW HEMATOPOIETIC NICHE MEDIATED BY DONOR CD4+ T CELLS
Yusuke Shono(1), S Ueha(1), J Abe(1), M Kurachi(1), M Imamura(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, School of Medicine, The University of Tokyo, Japan, (2) Department of Hematology and Oncology, Hokkaido University, Graduate School of Medicine, Sapporo, Japan
**THE ROLES OF JAK2 AND STAT3 IN THROMBIN-INDUCED CONNECTIVE TISSUE GROWTH FACTOR EXPRESSION IN HUMAN LUNG FIBROBLASTS**
Chung-Chi Yu(1), H-C Pai(1), B-C Chen(2), C-H Lin(1)
(1) Graduate Institute of Medical Sciences, Taipei Medical University, Taiwan, (2) School of Respiratory Therapy, Taipei Medical University, Taiwan

**THE ROLE OF DCIR IN THE INFLAMMATORY DISEASES**
Noriyuki Fujikado(1), K Shimamori(1), A Ishii(1), S Sugai(1), H Manaka(1), S Saijo(1), H Kotaki(1), K Sudo(1), M Nose(2), Y Iwakura(1)
(1) Center for Experimental Medicine, The Institute of Medical Science, The University of Tokyo, Japan, (2) Department of Pathology, Ehime University Graduate School of Medicine, Japan

**THROMBIN-INDUCED CONNECTIVE TISSUE GROWTH FACTOR EXPRESSION IN HUMAN LUNG FIBROBLASTS REQUIRES THE ASK1/JNK/AP-1 PATHWAY**
Chien-Huang Lin(1), C-C Yu(1), M-J Hsu(1), M-L Kuo(2), RF-C Chen(3), M-C Chen(1), B-C Chen(4)
(1) Graduate Institute of Medical Sciences, Taipei Medical University, Taiwan, (2) Institute of Toxicology, National Taiwan University, Taiwan, (3) Department of Thoracic and Cardiovascular Surgery, Taipei Medical University-Municipal Wangfang Hospital, Taiwan, (4) School of Respiratory Therapy, Taipei Medical University, Taiwan

**PROTECTIVE ROLE OF CX3CR1-MEDIATED SIGNAL PATHWAY IN CLOSTRIDIUM DIFFICILE TOXIN A-INDUCED ENTERITIS**
Masanori Inui(1), Y Ishida(2), A Kimura(2), N Mukaida(3), T Kondo(2)
(1) Department of Molecular Immunology, Institute of Advanced Medicine, Wakayama Medical University, Japan, (2) Department of Forensic Medicine, Wakayama Medical University, Japan, (3) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan

16. Others

**TNF RECEPTOR-ASSOCIATED PERIODIC SYNDROME (TRAPS) IN JAPAN**
Hiroaki Ida(1), K Arima(1), A Kawakami(1), K Migita(2), K Eguchi(1)
(1) First Department of Internal Medicine, Graduate School of Biomedical Sciences, Nagasaki University, Japan, (2) Clinical Research Center, NHO Nagasaki Medical Center, Japan
July 8 (Wed) 9:00 - 9:50  
Room A  

**Keynote Lecture 4**  
Initiation and Control of T Cell-mediated Inflammation  
Chairperson: Kazuhiko Yamamoto (Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Japan)  
Speaker: Abul K Abbas (Department of Pathology, University of California, San Francisco, USA)

July 8 (Wed) 10:00 - 12:00  
Room A  

**Morning Symposium 2**  
Inflammation-associated Tissue Injury and Repair  
Chairpersons: Steven L. Kunkel (Department of Pathology, The Immunology Program, University of Michigan Medical School, USA)  
Robert M. Strieter (Department of Medicine, University of Virginia School of Medicine, USA)

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**MS02.1**  
**PRODUCTION OF LIPID MEDIATORS DURING LANDS’ CYCLE**  
Takao Shimizu  
Department of Biochemistry and Molecular Biology, Faculty of Medicine, The University of Tokyo, Japan

**MS02.2**  
**WRITERS, READERS, AND ERASERS: DYNAMIC EPIGENETIC REGULATION OF MACROPHAGE-DERIVED PRO-FIBRIOIC MEDIATORS**  
Steven L. Kunkel  
Department of Pathology, The Immunology Program, University of Michigan Medical School, USA

**MS02.3**  
**FIBROCYTES AS CIRCULATING MESENCHYMAL PROGENITOR CELLS IN PULMONARY FIBROSIS: THE IMPORTANCE OF THE CXCR4/CXCL12 BIOLOGICAL AXIS**  
Robert M Strieter  
Department of Medicine, University of Virginia School of Medicine, USA
THE LYMPHOPHOSPHATIDIC ACID RECEPTOR LPA, MEDIATES FIBROSIS IN THE LUNG AND SKIN FOLLOWING INJURY

Andrew D Luster(1), AM Tager(1,2), BS Shea(1,2), P LaCamera(1,2), F Castelino(1), GS Campanella(1), M Selman(3), Z Zhao(4), V Polosukhin(5), A Pardo(6), TS Blackwell(5), Y Xu(4), J Chan(7)

(1) Division of Rheumatology, Allergy and Immunology, Center for Immunology and Inflammatory Diseases, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA, (2) Pulmonary and Critical Care Unit, Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA, (3) Instituto Nacional de Enfermedades Respiratorias, Mexico City, Mexico, (4) Department of Obstetrics and Gynecology, Indiana University School of Medicine, Indianapolis, Indiana, USA, (5) Division of Allergy, Pulmonary and Critical Care Medicine, Vanderbilt University School of Medicine, Nashville, Tennessee, USA, (6) Facultad de Ciencias, Universidad Nacional Autónoma de México, Mexico City, Mexico, (7) Department of Molecular Biology, Helen L. Dorris Institute for Neurological and Psychiatric Disorders, The Scripps Research Institute, La Jolla, California, USA

July 8 (Wed) 13:30 - 14:15

Room A

Special Lecture 2

The Role of Autophagy in Protein Metabolism

Chairperson: Ikuo Morita (Department of Physiological Chemistry, Tokyo Medical and Dental University, Japan)

Speaker: Noboru Mizushima (Department of Physiology and Cell Biology, Graduate School and Faculty of Medicine, Tokyo Medical and Dental University, Japan)

July 8 (Wed) 14:30 - 16:30

Room A

Industry Sponsored Symposium 3

The Irreversibility of the Bone Erosion and Radiographic Damages in RA

Chairpersons: Nobuyuki Miyasaka (Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan)

Ferdinand C Breedveld (Head of the Department of Rheumatology and Chairman of the Department of Medicine, Leiden University Medical Center, the Netherlands)

ISS03.2

CLINICAL MANAGEMENT IN RA IS NOT ENOUGH, BONE EROSION IS IRREVERSIBLE LEADING TO THE BURDEN OF THE DISEASE (FUNCTIONALITY, WORK PRODUCTIVITY)

Paul Peter Tak

Division of Clinical Immunology and Rheumatology, Academic Medical Center/University of Amsterdam, the Netherlands
ISS03.3  TREATMENT ALGORITHM: WHAT CAN WE EXPECT FROM DMARDs AND BDMARDs - CLINICAL VERSUS RADIOGRAPHIC EFFECTS
Ferdinand C Breedveld
Head of the Department of Rheumatology and Chairman of the Department of Medicine
Leiden University Medical Center, the Netherlands

ISS03.1  TNF-α AND BONE DESTRUCTION IN ARTHRITIS - FROM THE VIEWPOINT OF BASIC RESEARCH -
Hiroshi Takayanagi
Department of Cell Signaling, Tokyo Medical and Dental University, Japan

ISS03.4  HUMIRA: FOR A LONG TERM AND COMPREHENSIVE RA DISEASE MANAGEMENT – CLINICAL DATA, RADIOGRAPHIC DATA, FUNCTIONALLY DATA, WORK PRODUCTIVITY DATA –
Tsutomu Takeuchi
Division of Rheumatology, Clinical Immunology, Saitama Medical Center, Saitama Medical University, Japan

Sponsored by Abbott Japan Co., Ltd. / Eisai Co., Ltd.

July 8 (Wed) 16:45 - 18:45  Room A

Workshop 4
Chairpersons: Tatsuro Irimura (Laboratory of Cancer Biology and Molecular Immunology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan)
John Rømer Nielsen (Director of Histology, Biopharmaceuticals Research Unit, Novo Nordisk A/S, Denmark)

7. Inflammatory Diseases (2)

WS04-01  CARDIAC MAST CELL-DERIVED PDGF-A PROMOTES ATRIAL FIBRILLATION IN PRESSURE-OVERLOADED HEARTS
Chien-hui Liao(1), H Akazawa(1), M Tamagawa(2), H Nakaya(2), H Nakauchi(3), I Komuro(1)
(1) Department of Cardiovascular Science and Medicine, Chiba University Graduate School of Medicine, Japan, (2) Department of Pharmacology, Chiba University Graduate School of Medicine, Japan, (3) Division of Stem Cell Therapy, Center for Stem Cell and Regenerative Medicine, Institute of Medical Science, The University of Tokyo, Japan

WS04-02  ACCELERATED EXPRESSION OF INTERLEUKIN-23 AND SMAD2 MRNA IN BEHCET'S DISEASE
Jun Shimizu(1), N Suzuki(1), F Kaneko(2), S Kaneko(3)
(1) Department of Immunology and Medicine, St. Marianna University School of Medicine, Japan, (2) Department of Dermatology, Fukushima Medical University, Japan, (3) Department of Dermatology, Shimane University School of Medicine, Japan
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<th>Poster Number</th>
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<th>Authors</th>
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<td>WS04-03</td>
<td><strong>PRAVASTATIN ATTENUATES ALLERGIC AIRWAY INFLAMMATION</strong></td>
<td>Mitsuru Imamura, M Dohi, K Okunishi, K Nakagome, O Sasaki, T Matsumoto, H Harada, R Tanaka, K Yamamoto</td>
<td>Department of Allergy and Rheumatology, University of Tokyo, Japan</td>
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<td>WS04-04</td>
<td><strong>IL-20 IS REGULATED BY HYPoxIA-INDUCIBLE FACTOR AND UPREREGULATED AFTER EXPERIMENTAL ISCHEMIC STROKE</strong></td>
<td>Ming-shi Chang, W-Y Chen</td>
<td>Department of Biochemistry and Molecular Biology, Medical College of National Cheng-kung University, Taiwan</td>
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<td>WS04-05</td>
<td><strong>LONG-TERM ICAM-1 EXPRESSION ON PMA-ACTIVATED THP-1 CELLS HARBORING DISEASE-ASSOCIATED NOD2 MUTATIONS</strong></td>
<td>Nobuo Kanazawa(1), M Nishiyama(1), H-J Li(1), I Okafuji(2), N Kambe(3), F Furukawa(1)</td>
<td>(1) Department of Dermatology, Wakayama Medical University, Japan, (2) Department of Pediatrics, Kyoto University Graduate School of Medicine, Japan, (3) Department of Dermatology, Chiba University Graduate School of Medicine, Japan</td>
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<td>WS04-06</td>
<td><strong>TARGETING INFLAMMATORY PROCESSES IN ATHEROSCLEROSIS BY ANTI-MIF/CXCR STRATEGIES</strong></td>
<td>Juergen Bernhagen(1), C Weber(2), S Kraemer(3), H Lue(3), A Zernecke(2), M Drechsler(2), R Krohn(2)</td>
<td>(1) Department of Biochemistry &amp; Molecular Cell Biology, RWTH Aachen University, Germany, (2) IMCAR, RWTH Aachen University, Germany, (3) Department of Biochemistry &amp; Molecular Cell Biology, RWTH Aachen University, Germany</td>
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<td>WS04-07</td>
<td><strong>IFN-GAMMA PLAYS AN ACCELERATIVE ROLE INSTEAD OF A SUPPRESSIVE ROLE IN RANKL INDUCED OSTEOCLASTOGENESIS IN THE PRESENCE OF LPS</strong></td>
<td>Esperanza Raquel Ayon Haro, T Ukai, Y Yoshinaga, M Yokoyama, Y Hara</td>
<td>Department of Periodontology, Nagasaki University Graduate School of Biomedical Sciences, Japan</td>
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<td>WS04-08</td>
<td><strong>DOPAMINE FUNCTIONS AS A DENDRITIC CELLS-MEDIATED TH17-POLARIZING FACTOR AND PLAYS A ROLE FOR THE PATHOGENESIS OF RHEUMATOID ARTHRITIS</strong></td>
<td>Kazuhisa Nakano(1), K Saito(1), K Yamaoka(1), S Matsushita(2), Y Tanaka(1)</td>
<td>(1) The First Department of Internal Medicine, University of Occupational &amp; Environmental Health, Japan, (2) Department of Allergy and Immunology, Faculty of Medicine, Saitama Medical University, Saitama, Japan</td>
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<td>WS04-09</td>
<td><strong>SUPPRESSOR OF CYTOKINE SIGNALING 3 (SOCS3) IS A SAFETY MECHANISM TO CONTROL PSORIATIC SKIN INFLAMMATION</strong></td>
<td>Masato Kubo(1), A Konomi-Uto(2), S Suzuki(2), C Daniel(3)</td>
<td>(1) Laboratory for Signal Network, RIKEN Research Center for Allergy and Immunology, Japan, (2) Department of Molecular &amp; Cellular Biology (MCB), Kobe Pharma Research Institute, Nippon Boehringer Ingelheim Co., Ltd., Japan, (3) Schering-Plough Biopharma (former DNAX Research), USA</td>
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WS04-10  
[GA07.64 (O/P)]  
AMELIORATION OF ACUTE TUBULAR NECROSIS IN ISCHEMIC ACUTE RENAL FAILURE WAS IMPAIRED IN MICE LUCKING HYPOXIA INDUCIBLE FACTOR-1ALPHA GENE  
Shuhei Tomita(1), K Yamaguchi(1), K Ishizawa(1), K Tsuchiya(2), T Tamaki(1)  
(1) Department of Pharmacology, University of Tokushima Graduate School of Medicine, Japan, (2) Department of Medical Pharmacology, University of Tokushima, Japan

WS04-11  
[GA07.69 (O/P)]  
ROLE OF TNF-α PRODUCED BY NON-ANTIGEN-SPECIFIC CELLS IN A MURINE FULMINANT HEPATITIS MODEL  
Hiroyasu Ito(1), K Ando(1), T Ishikawa(2), K Saito(3), M Takemura(1), M Imawari(4), H Moriwaki(5), M Seishima(1)  
(1) Department of Informative Clinical Medicine, Gifu University Graduate School of Medicine, Japan, (2) Cancer Immunotherapy Center, Nagoya Kyoritsu Hospital, Japan, (3) Human Health Sciences, Graduate School of Medicine and Faculty of Medicine, Kyoto University, Japan, (4) Second Department of Internal Medicine, Showa University School of Medicine, Japan, (5) First Department of Internal Medicine, Gifu University Graduate School of Medicine, Japan

WS04-12  
[GA07.70 (O/P)]  
SELECTIVE SUPPRESSION OF INTESTINAL GVHD BY DEPRIVING GUT-HOMING DONOR INTRAEPITHELIAL LYMPHOCYTE PRECURSORS  
Kenjiro Matsuno(1), H Ueta(1), S Zhou(1), X-D Xu(1), Y Sawanobori(1), H Yoneyama(2)  
(1) Department of Anatomy (Macro), Dokkyo Medical University, Japan, (2) Stelic Institute of Regenerative Medicine, Tokyo, Japan

WS04-13  
[GA07.74 (O/P)]  
INDISPENSABLE ROLE OF IFN-γ IN TH17 CELL-DEPENDENT AIRWAY HYPERRESPONSIVENESS  
Shigeru Ashino(1), T Nishimura(2)  
(1) Division of Immunoregulation, Institute for Genetic Medicine, Hokkaido University, Japan, (2) Division of Immunoregulation and ROYCE’ Health Bioscience, Institute for Genetic Medicine, Hokkaido University, Japan

8. Inflammatory Diseases Caused by Infection  

WS04-14  
[GA08.03 (O/P)]  
DENDRITIC CELL-DERIVED NOTCH LIGAND DELTA-LIKE 4 REGULATES THE IMMUNE ENVIRONMENT VIA TOLL-LIKE RECEPTOR 9  
Toshihiro Iro(1), M Schaller(1), CM Hogaboam(1), TJ Standiford(2), M Sandor(3), NW Lukacs(1), SW Chensue(4), SL Kunkel(1)  
(1) Department of Pathology, University of Michigan Medical School, USA, (2) Division of Pulmonary and Critical Care Medicine, Department of Medicine, University of Michigan Medical Center, USA, (3) Department of Pathology and Laboratory Medicine, University of Wisconsin School of Medicine and Public Health, USA, (4) Department of Pathology and Laboratory Medicine, Veterans Affairs Ann Arbor Healthcare System, USA

WS04-15  
[GA08.08 (O/P)]  
THE ROLES OF NOD LIKE RECEPTORS IN INFLAMMATION AND CARCINOGENESIS ARE DIFFERENT BETWEEN JAPANESE AND CAUCASIAN  
Tsuyoshi Tanabe(1), N Yamaguchi(1), Y Eishi(2), H Amano(1), T Kakamu(1), Y Fujita(1)  
(1) Department of Public Health, Faculty of Medicine, Shimane University, Japan, (2) Department of Human Pathology, Graduate School of Medicine, Tokyo Medical and Dental University, Japan
WS04-16 [GA08.10 (O/P)]
AN ORALLY ACTIVE, SMALL MOLECULE CCR3 ANTAGONIST, W-56750, EXERTS POTENT ANTI-ALLERGIC EFFECTS
Hidemitsu Higashi(1), N Sato(1), K Sakata(1), S Takeda(2), M Kiuchi(2), M Kikuchi(1), T Sugita(1), K Chiba(1)
(1) Pharmacology Laboratory, Mitsubishi Tanabe Pharma Co., Japan, (2) Medicinal Chemistry, Research Division, Mitsubishi Tanabe Pharma Co., Japan

WS04-17 [GA08.13 (O/P)]
PROLONGED SURVIVAL OF MAIR-I (CD300A)-DEFICIENT MICE FROM ACUTE SEPTIC PERITONITIS
Chigusa Nakahashi-Oda, S Tahara-Hanaoka, M Shoji, N Totsuka, K Hitomi, T Nakano, A Shibuya
Department of Immunology, University of Tsukuba, Japan

July 8 (Wed) 12:10 - 13:10 Room B
Luncheon Seminar 4
Chairperson: Naofumi Mukaida (Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan)

LS04
ANTIMICROBIAL PEPTIDES: LOCAL HOST RESPONSE ELEMENTS OF THE EPITHELIAL DEFENSE SYSTEM
Jens-M Schroeder
Professor for the Biochemistry of Inflammation, Head Clinical Research Unit "Cutaneous Inflammation" Department of Dermatology, University Hospital Schleswig-Holstein, Germany

Sponsored by Kyowa Hakko Kirin Co., Ltd.

July 8 (Wed) 14:30 - 16:30 Room B
Society Sponsored Symposium 4
Aging, Complex Disease, and Inflammation
Chairpersons: Paul Kirkham (National Heart & Lung Institute, Imperial College London, UK)
Graham Wallace (School of Immunity and Infection, University of Birmingham, UK)

SSS04.1
THE OKINAWA DIET: A NUTRITIONAL APPROACH TO MODULATING "INFLAMMAGING"
D Craig Willcox(1,2), BJ Willcox(2), H Todoriki(3), M Suzuki(1,3)
(1) Okinawa International University, Okinawa, Japan, (2) Pacific Health Research Institute, Faculty of Medicine, University of Hawaii, Honolulu, HI, USA, (3) Faculty of Medicine, University of the Ryukyus, Okinawa, Japan

SSS04.2
CHRONIC INFLAMMATION AND DISEASE- THE LINK TO OXIDATIVE STRESS AND AGEING
Paul G Winyard
Peninsula Medical School, St Luke’s Campus, University of Exeter, UK
SSS04.3  AEROBIC METABOLISM, INFLAMMATION AND SUSCEPTIBILITY TO COMPLEX DISEASES
Christopher S Stevenson
Respiratory Pharmacology Group, Centre for Integrative Mammalian Physiology and Pharmacology, Imperial College London School of Medicine at the National Heart and Lung Institute London, UK

SSS04.4  POTENTIAL STRATEGIES TO OVERCOME AGING - THE LINK TO CHRONIC INFLAMMATORY DISORDERS
Iain C Kilty
Allergy and Respiratory Research Unit, Pfizer Global Research and Development, Sandwich, UK.

Sponsored by BIRAs - British Inflammation Research Association

July 8 (Wed) 16:45 - 18:45  Room B

Workshop 5

Chairpersons: Osamu Yoshie (Department of Microbiology, Kinki University School of Medicine, Japan)
Teizo Yoshimura (Laboratory of Immunoregulation, Cancer and Inflammation Program, Center for Cancer Research, National Cancer Institute at Frederick, USA)

3. Lymphocytes, Macrophages, Neutrophils, Other Inflammatory Cells

WS05-01  [GA03.01 (O/P)]  HIGH-RESOLUTION ANALYSIS OF THE 5’-END TRANSCRIPTOME IN A MEMORY CD4+ T CELLS
Shinichi Hashimoto(1), Y Lee(1), B Ahsan(2), K Ogoshi(1), A Sasaki(2), Y Suzuki(3), S Sugano(3), S Morishita(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Computational Biology, Graduate School of Frontier Sciences, The University of Tokyo, Japan, (3) Department of Medical Genome Science, Graduate School of Frontier Science, The University of Tokyo, Kashiwa, Japan

WS05-02  [GA03.03 (O/P)]  IDENTIFICATION OF CLONOGENIC COMMON PLASMACYTOID AND DENDRITIC CELL PROGENITORS (CDP) IN MOUSE BONE MARROW
Nobuyuki Onai(1), A Obata-Onai(1), MA Schmid(2), T Ohteki(1), MG Manz(2)
(1) Department of Immunology, Akita University, Graduate School of Medicine, Japan, (2) Institute for Research in Biomedicine, Bellinzona, Switzerland

WS05-03  [GA03.08 (O/P)]  TH17 CELL DIFFERENTIATION IS POSITIVELY CONTROLLED BY PI3K/AKT SIGNALING
Yutaka Kurebayashi, S Nagai, Y Baba, S Koyasu
Department of Microbiology & Immunology, Keio University, Japan
A C-TYPE LECTIN MGL1/CD301A PLAYS AN ANTI-INFLAMMATORY ROLE THROUGH THE RECOGNITION OF COMMENSAL BACTERIA IN MURINE EXPERIMENTAL COLITIS

Kaori Denda-Nagai, K Saba, T Irimura
Laboratory of Cancer Biology and Molecular Immunology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

AUGMENTATION OF HEPATIC CANCER STEM CELLS BY WNT/BETA-CATENIN SIGNALING

Taro Yamashita(1), J Ji(2), A Budha(2), M Forgues(2), H Jia(3), Q Ye(3), L-X Qin(3), E Wauthier(4), LM Reid(4), H Minato(5), M Honda(1), S Kaneko(1), W Yang(6), W Hongyang(6), Z-Y Tang(3), XW Wang(2)
(1) Department of Gastroenterology, Kanazawa University, Japan, (2) Laboratory of Human Carcinogenesis, Center for Cancer Research, National Cancer Institute, Bethesda, MD, USA, (3) Liver Cancer Institute and Zhongshan Hospital, Fudan University, Shanghai, China, (4) Department of Cell and Molecular Physiology, University of North Carolina School of Medicine, Chapel Hill, NC, USA, (5) Liver Disease Center and Kanazawa University Hospital, Kanazawa University, Kanazawa, Japan, (6) Eastern Hepatobiliary Surgery Hospital, Shanghai, China

CHEMOKINE-MEDIATED RAPID TURNOVER OF INFLAMMATION-ASSOCIATED MACROPHAGES AND NEUTROPHILS IN TUMOR-BEARING MICE

Satoshi Ueha(1), Y Sawanobori(2), M Kurachi(1), J Abe(1), K Kakimi(1), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, The University of Tokyo, Japan, (2) Department of Anatomy (Macro), Dokkyo Medical University, Japan

BREAST CANCER METASTASIS IS AN ACTIVE PROCESS THAT UTILIZES MIGRATORY PATHWAY OF IMMUNE CELLS TO HOME INTO INFLAMED LUNGS

Arya Biragyn
Immunotherapeutics Unit, National Institute on Aging, USA

SILENCING OF SOCS1 IN MACROPHAGES SUPPRESSES TUMOR DEVELOPMENT BY ENHANCING ANTI-TUMOR INFLAMMATION

Masayuki Hashimoto, A Yoshimura
Department of Microbiology and Immunology, Keio University School of Medicine, Japan

INTERACTION OF INFLAMMATORY CHEMOKINES AND THEIR BINDERS IN TUMOR MICROENVIRONMENT

Zhou Luo Ou, SF Wei, B Bai, J Wang, FY Wu, TW Cheng, XF Liu, LP Wang, LY Feng, J Li, XH Zeng, Y Zhai, ZM Saho
Breast Cancer Institute, Fudan University Cancer Hospital, China

PREFERENTIAL PRODUCTION OF IL-17 BY TUMOR-INFILTRATING γδ T CELLS ENHANCES ANGIOGENESIS AND TUMOR GROWTH

Daiko Wakita(1), T Nishimura(2)
(1) Division of Immunoregulation, Institute for Genetic Medicine, Hokkaido University, Japan, (2) Division of Immunoregulation ROYCE’ Health Bioscience, Institute for Genetic Medicine, Hokkaido University, Japan
12. Clinical Tests: Biomarkers, Bio-imaging, Epigenetics, SNP, Gene Expression

WS05-14 [GA12.1 (O/P)] ASSOCIATION OF POLYMORPHISMS IN FC GAMMA RECEPTOR GENE WITH RHEUMATOID ARTHRITIS. A META-ANALYSIS
Seung-Woo Han(1), W-K Lee(2), G-W Kim(1), J-W Choi(1)
(1) Department of Internal Medicine, Daegu Pfitma Hospital, Korea, (2) Preventive Medicine, School of Medicine, Kyungpook National University, Daegu, Korea

WS05-15 [GA12.2 (O/P)] COMPARATIVE STUDY OF FENOFIBRATE AND STATIN FOR THE TREATMENT OF DYSLIPIDEMIA IN RHEUMATOID ARTHRITIS
Makoto Goto
Department of BioMedical Engineering, Toin University of Yokohama, Japan

WS05-16 [GA12.5 (O/P)] INCREASED PHAGOCYTOSIS OF PLATELETS FROM PATIENTS WITH SECONDARY DENGUE VIRUS INFECTION BY HUMAN MACROPHAGES
Maria Terrese Galvez Alonzo(1), S Honda(2), M Saito(3), EM Dimaano(4), RR Matias(5), FF Natividad(5), K Oishi(1)
(1) International Research Center for Infectious Diseases, Research Institute for Microbial Diseases, Osaka University, Japan, (2) Nagasaki University Infection Control and Education Center, Japan, (3) Department of Virology, Tohoku University Graduate School of Medicine, Japan, (4) San Lazaro Hospital, Manila, Philippines, (5) Research and Biotechnology Division, St. Luke's Medical Center, Quezon City, Philippines

WS05-17 [GA16.2 (O/P)] TOTAL HEALTH RELATED COSTS IN PSORIASIS PATIENTS, BEFORE TREATMENT WITH ETA NERCEPT IN A NON-HOSPITAL SETTING
Christian Groenhoej Larsen(1), PH Andersen(2), H Egekvist(3), H Lorenzen(4), COC Zachariae(5), T Huld-Nystroem(6), LK Dotterud(7), R Lindkvist(8), S Qvitzau(8)
(1) Clinic of Dermatology, Aarhus, Denmark, (2) Clinic of Dermatology, Vejle, Denmark, (3) Dermatology Clinic, Aarhus, Denmark, (4) Dermatology, University Hospital, Odense, Denmark, (5) Dermatology, Copenhagen University Hospital, Gentofte, Denmark, (6) Clinic of Dermatology, Levanger, Norway, (7) Clinic of Dermatology, Lillehammer, Norway, (8) Wyeth Denmark, Copenhagen, Denmark
**Evening Seminar**

**Novel Paradigm of Inflammation - Apoptosis and Autoinflammatory -**

Chairpersons: Kusuki Nishioka (Institute of Medical Science, St. Marianna University School of Medicine, Japan)
Shumpei Yokota (Department of Pediatrics, Yokohama City University, Yokohama, Japan)

ES.1 PROGRAMMED CELL DEATH AND AUTOIMMUNE DISEASES
Shigekazu Nagata
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan

ES.2 A NOVEL ANTI-HUMAN FAS ANTIBODY SHOWS STRONG CYTOTOXIC EFFECT ON RHEUMATOID ARTHRITIS SYNOVIOCYTES AND INFILTRATING LYMPHOCYTES
Kusuki Nishioka(1), H Aono(2), M Sasano(2), T Matsubara(3), M Kamishohara(4), I Nakamura(4)
(1) Institute of Medical Science, St. Marianna University School of Medicine, Japan,
(2) Research & Development Center, Santen Pharmaceutical Co., Ltd., Japan,
(3) Matsubara Mayflower Hospital, Japan, (4) Argenes, Inc., Japan

ES.3 AUTOINFLAMMATORY DISEASES IN CHILDHOOD: CLINICAL AND GENETIC ADVANCES
Shumpei Yokota
Department of Pediatrics, Yokohama City University, Yokohama, Japan

ES.4 AUTOINFLAMMATORY SYNDROME FROM THE ASPECT OF INTERNAL MEDICINE
Hiroaki Ida, K Arima, K Eguchi
First Department of Internal Medicine, Nagasaki University Hospital of Medicine and Dentistry, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan

**Sponsored by Argenes, Inc.**

**Luncheon Seminar 5**

Chairperson: Yoshiya Tanaka (The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan)

LS05 HUMAN B CELL DIVERSITY AND IMMUNOLOGICAL TOLERANCE
Iñaki Sanz
Division of Clinical Immunology & Rheumatology, University of Rochester Medical Center, USA

**Sponsored by Zenyaku Kogyo Co., Ltd.**
Society Sponsored Symposium 5

Mechanisms and Novel Drugs for Systemic Inflammatory Diseases

Chairpersons: B Boris Vargaftig (Department of Pharmacology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil)

Mauro Teixeira (Department of Biochemistry and Immunology, Instituto de Ciencias Biologicas, Universidade Federal de Minas Gerais, Brazil)

SSS05.1 IVAN BONTA'S CONTRIBUTION TO THE UNDERSTANDING OF PULMONARY VASCULAR LESIONS; AN EXTENSION TO ISCHAEMIA/REPERFUSION MECHANISMS AND INHIBITION BY ESTROGENS
B Boris Vargaftig, AC Breithaupt-Faloppa, WT de Lima
Department of Pharmacology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil

SSS05.2 MECHANISMS OF DISEASE IN EXPERIMENTAL DENGUE INFECTION. ROLE OF PLATELET ACTIVATING FACTOR
Mauro M Teixeira, CT Fagundes, DG Souza, CT Fagundes, VV Costa
Department of Biochemistry and Immunology, Instituto de Ciencias Biologicas, Universidade Federal de Minas Gerais Brazil

SSS05.3 RECOGNITION OF DAMAGED SELF AND NON-SELF PATHOGEN BY C-TYPE LECTIN RECEPTOR, MINCLE
Sho Yamasaki
Division of Molecular Immunology, Medical Institute of Bioregulation, Kyushu University, Japan

SSS05.4 FAILURE OF NEUTROPHIL MIGRATION TO INFECTION FOCUS CORRELATES WITH SEPSIS OUTCOME: CRITICAL ROLE OF NITRIC OXIDE-GUANILATE CYCLASE- cGMP- PROTEIN KINASE G PATHWAY
Fernand Q Cunha(1), HA Paula Neto(2), J C Alves-Filho(1), FO Souto (1), A Freitas(1), C Barja-Fidalgo(2)
(1) Departments of Pharmacology, School of Medicine Ribeirão Preto, University of São Paulo, Brazil, (2) University of Rio de Janeiro, Brazil

Sponsored by BIS - Brazilian Inflammation Society
July 8 (Wed) 16:45 - 18:45

**Workshop 6**

Chairpersons: Masataka Majima (Department of Pharmacology, Kitasato University School of Medicine, Japan)
Graham Wallace (School of Immunity and Infection, University of Birmingham, UK)

### 10. Drug Discovery: Molecular Targets, Drug Screening, Drug Design, Informatics, Molecular Library, Genetics and Genomics, Devices

**WS06-01**

[GA10.3 (O/P)]

**IDENTIFICATION OF CELL SURFACE MARKERS EXPRESSED IN PLURIPOTENT EMBRYONIC STEM CELLS**

Atsushi Intoh(1), A Kunisaki(2), H Sugino(2), M Asashima(1)
(1) Graduate School of Arts and Sciences, The University of Tokyo, Japan, (2) Organ Development Research Laboratory, National Institute of Advanced Industrial Science and Technology (AIST), Japan

**WS06-02**

[GA10.9 (O/P)]

**DISCOVERY OF NOVEL BORON CONTAINING COMPOUNDS AS DUAL INHIBITORS OF TNF-α AND IL-23 RELEASE**

(1) Medicinal Chemistry, Anacor Pharmaceuticals, USA, (2) Program Management, Anacor Pharmaceuticals, USA, (3) NAEJA Pharmaceuticals, Canada, (4) Pharmacology, Anacor Pharmaceuticals, USA

### 11. Natural Products

**WS06-03**

[GA11.04 (O/P)]

**ANTI-INFLAMMATORY AND ANTIATHEROGENIC EFFECTS OF THE NF-κB INHIBITOR ACETYL-11-KETO-β-BOSWELLIC ACID IN LPS-CHALLENGED APOE-DEFICIENT MICE**

Thomas Simmet(1), T Syrovets(1), C Cuaz-Perolin(2), L Billiet(2), E Bauge(3), C Copin(3), B Buechele(1), M Rouis(2), T Simmet(1)
(1) Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Germany, (2) UMR-7079, Universite Pierre and Marie Curie, Paris, France, (3) INSERM, U-545, Lille, France

**WS06-04**

[GA11.05 (O/P)]

**THE ISOPRENOID GERANYLGERANIOL SUPPRESSES LPS INFLAMMATION IN RAT BY DOWN REGULATING SIGNALING MOLECULES DOWNSTREAM OF TLR4**

Puspo Edi Giriwono(1), Y Ohsaki(1), H Shirakawa(1), S Hata(2), H Kuriyama(2), S Sato(1), T Goto(1), M Komai(1)
(1) Laboratory of Nutrition, Graduate School of Agricultural Sciences, Tohoku University, Japan, (2) Tama Biochemical Co., Ltd., Japan
WS06-05  [GA11.11 (O/P)]
SAUCERNEOL D, ISOLATED FROM SAURURUS CHINENSIS INHIBITS LPS-INDUCED INOS EXPRESSION BY BLOCKING NF-κB AND MAP KINASES ACTIVATION IN RAW264.7 CELLS
Hyeun Wook Chang, C-S Seo, J-K Son
College of Pharmacy, Yeungnam University, Korea

WS06-06  [GA11.13 (O/P)]
EFFECTS OF ARECOLINE, THE MAIN ALKALOID OF ARECA NUT, ON MICROGLIA AND NEURONAL CELLS
Yu-Tzu Shih(1), C-H Wu(2), H-H Tsai(3), Y-Y Hsu(3), Y-C Lo(2)
(1) Graduate Institute of Natural Products, Kaohsiung Medical University, Taiwan, (2) Department and Graduate Institute of Pharmacology, Kaohsiung Medical University, Taiwan, (3) Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan

WS06-07  [GA11.16 (O/P)]
NOVEL CHALCONE JSH 4-4 INHIBITS NF-KB ACTIVATION AND NF-KB-REGULATED INFLAMMATORY GENE TRANSCRIPTION IN LPS-ACTIVATED MACROPHAGES
Youngsoo Kim(1), R Eunmiri(2), L Hong Kyung(1), Y Jun Ho(1), L In Jeong(1), H Sang-Bae(1), K Youngsoo(1)
(1) College of Pharmacy, Chungbuk National University, Korea, (2) College of Pharmacy & CBITRC, Chungbuk National University, Korea

13. Action Mechanisms of Anti-inflammatory Drugs

WS06-08  [GA13.3 (O/P)]
CALCINEURIN INHIBITORS DOWN-REGULATE INOS EXPRESSION BY DESTABILISING MRNA
Mari Johanna Hamalainen, R Korhonen, E Moilanen
The Immunopharmacology Research Group, Medical School, and Tampere University Hospital Research Unit, University of Tampere, Finland

WS06-09  [GA13.5 (O/P)]
DIFFERENTIAL REQUIREMENT FOR FC RECEPTORS TO NEUTRALIZE HUMAN TLR2 BY A MOUSE IGG1 MONOCLONAL ANTIBODY AND ITS HUMAN IGG1&IGG4 COUNTERPARTS
Jerome Dellacasagrande, D Boylan, G Donnelly, A Dunne, F Janda, B Keogh, W McCormack, P McGuirk, G McManus
OPSONA Therapeutics Ltd, Ireland

14. Development of Novel Therapeutics

WS06-10  [GA14.01 (O/P)]
OVEREXPRESSION OF GRIM19 IN CANCER CELLS SUPPRESSES STAT3-MEDIATED SIGNAL TRANSDUCTION AND CANCER GROWTH
Naotaka Shibagaki, T Okamoto, M Kanzaki, S Shimada
Department of Dermatology, University of Yamanashi, Faculty of Medicine, Japan
WS06-11  [GA14.03 (O/P)]
A NOVEL THERAPEUTIC APPROACH FOR INFLAMMATORY BOWEL DISEASES USING A COMPLEX OF ANTISENSE MACROPHAGE MIGRATION INHIBITORY FACTOR AND SCHIZOPHYLLAN
Jun Nishihira(1), Y Koyama(1), H Takeda(2), K Mitsuyama(3), Y Fujiyama(4), K Sakurai(5)
(1) Department of Medical Management and Informatics, Hokkaido Information University, Japan, (2) Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, (3) Division of Gastroenterology, Kurume University School of Medicine, Japan, (4) Division of Gastroenterology, Shiga University School of Medicine, Japan, (5) Department of Chemical Processes and Environments, The University of Kitakyushu, Japan

WS06-12  [GA14.07 (O/P)]
FINGOLIMOD (FTY720), SPHINGOSINE 1-PHOSPHATE RECEPTOR MODULATOR, AMELIORATES EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE) IN MICE
Hirotoshi Kataoka, N Seki, K Shimano, Y Maeda, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan

WS06-13  [GA14.08 (O/P)]
FINGOLIMOD (FTY720) INHIBITS INFILTRATION OF TH1 AND TH17 CELLS INTO THE CENTRAL NERVOUS SYSTEM IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS IN MICE
Noriyasu Seki, Y Maeda, H Kataoka, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan

WS06-14  [GA14.09 (O/P)]
SPHINGOSINE 1-PHOSPHATE (SIP) REGULATES RECIRCULATION OF MATURE T CELLS THROUGH BONE MARROW BY SIP RECEPTOR TYPE 1
Yasuhiro Maeda, N Sato, N Seki, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan

WS06-15  [GA14.13 (O/P)]
ARRY-162, A POTENT AND SELECTIVE INHIBITOR OF MEK 1/2: PRECLINICAL AND CLINICAL EVIDENCE OF ACTIVITY IN ARTHRITIS
James D Winkler, D Wright, J Pheneger, P Lee, K Litwiler, S Brown, L Carter, K Koch, S Rojas-Caro
Array BioPharma Inc., USA

WS06-16  [GA14.16 (O/P)]
WATER-SOLUBLE FULLERENEC60 PREVENTS DEGENERATION OF ARTICULAR CARTILAGE IN OSTEOARTHRITIS (OA)
Kazuo Yudoh(1), R Karasawa(1), K Shishido(2), M Yano(2), H Aoshima(3), H Taira(3), S Yamana(3)
(1) Institute of Medical Science, St. Marianna University School of Medicine, Japan, (2) Mitsubishi Corporation, Japan, (3) Vitamin C60 BioResearch Corporation, Japan

16. Others

WS06-17  [GA16.3 (O/P)]
NEW ANTI-INFLAMMATORY SYNTHETIC BIFLA VONES WITH C-C (6-6") LINKAGE: DIFFERENTIAL EFFECTS ON CYCLOOXYGENASE-2 AND INDUCIBLE NITRIC OXIDE SYNTHASE
Hyun Lim(1), JH Jin(1), H Park(1), HW Chang(2), HP Kim(1)
(1) College of Pharmacy, Kangwon National University, Korea, (2) College of Pharmacy, Yeungnam University, Korea
July 8 (Wed) 19:00 - 21:00

Room C

Japan-Taiwan Joint Symposium on Inflammation Research

New Approaches to Inflammation-related Diseases I

Chairpersons: Wen-Chang Chang (Department of Pharmacology, College of Medicine, National Cheng Kung University, Taiwan)

Ikuo Morita (Department of Cellular Physiological Chemistry, Tokyo Medical and Dental University, Japan)

JT.1
[GA09.15 (O/P)]
LOSS OF IKKβ ACTIVITY INCREASES P53 STABILITY LEADING TO CELL CYCLE ARREST AND APOPTOSIS
Ching-Chow Chen
Department of Pharmacology, College of Medicine, National Taiwan University, Taiwan

JT.2
[GA09.13 (O/P)]
ROLE OF PROSTAGLANDINS IN ENHANCEMENT OF TUMOR-ASSOCIATED ANGIOGENESIS AND TUMOR GROWTH
Masataka Majima, H Amano, T Suzuki, K Hosono
Department of Pharmacology, Kitasato University School of Medicine, Japan

JT.3
[GA06.04 (O/P)]
FAS MEDIATED CASPASE-INDEPENDENT CELL DEATH AND INFLAMMATORY RESPONSES
Wan-Wan Lin(1), T-Y Chen(1), J-S Wang(1), C-L Chien(2)
(1) Department of Pharmacology, National Taiwan University, Taiwan, (2) Department of Anatomy and Cell Biology, College of Medicine, National Taiwan Unviersity, Taipei, Taiwan

JT.4
[GA01.02]
ADIPOSE TISSUE REMODELING, CHRONIC INFLAMMATION AND T-CELL-MACROPHAGE INTERACTIONS IN OBESITY VISUALIZED BY IN VIVO MOLECULAR IMAGING METHODS
Satoshi Nishimura(1), M Nagasaki(1), I Manabe(1), K Eto(2), T Kadowaki(3), R Nagai(1)
(1) Department of Cardiovascular Medicine, The University of Tokyo, Japan, (2) Laboratory of Stem Cell Therapy, Center for Experimental Medicine, Institute of Medical Science, The University of Tokyo, Japan, (3) Department of Metabolic Diseases, The University of Tokyo, Japan

New Approaches to Inflammation-related Diseases II

Chairpersons: Chien-Huang Lin (Graduate Institute of Medical Sciences, Taipei Medical University, Taiwan)

Masataka Majima (Department of Pharmacology, Kitasato University School of Medicine, Japan)

JT.5
[GA02.39]
REGULATION OF CHEMOKINE GENE EXPRESSION BY HYPOXIA VIA COOPERATIVE ACTIVATION OF NF-κB AND HDAC
Olga Sergeevna Safronova, K Nakahama, I Morita
Department of Cellular Physiological Chemistry, Tokyo Medical and Dental University, Japan
GLYCOGEN SYNTHASE KINASE-3β FACILITATES IFN-γ-INDUCED STAT1 ACTIVATION BY REGULATING SRC HOMOLOGY-2 DOMAIN-CONTAINING PHOSPHATASE 2
(1) Institute of Clinical Medicine, National Cheng Kung University, Taiwan, (2) Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan, (3) Department of Microbiology and Immunology, National Cheng Kung University, Taiwan, (4) Department of Microbiology and Immunology, Dalhousie University, Canada, (5) Department of Nursing, Chung Hwa University of Medical Technology, Taiwan

EPIDERMAL GROWTH FACTOR-ACTIVATED ARNT/HIF-1 β SIGNAL PATHWAY UP-REGULATES CYCLOOXYGENASE-2 GENE EXPRESSION ASSOCIATED WITH SQUAMOUS CELL CARCINOMA
Ben-Kuen Chen(1), K-Y Chang(2), M-R Shen(3), M-Y Lee(3), W-L Wang(3), W-C Su(4), W-C Chang(3)
(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng Kung University, Taiwan, (2) National Institute of Cancer Research, National Health Research Institutes, Taiwan, (3) Department of Pharmacology, National Cheng Kung University, Taiwan, (4) Department of Internal Medicine, National Cheng Kung University, Taiwan

PROSTAGLANDIN E2-EP4 SIGNALING PROMOTES IMMUNE INFLAMMATION THROUGH TH1 CELL DIFFERENTIATION AND TH17 CELL EXPANSION
Daiji Sakata(1), C Yao(1), Y Esaki(1), Y Li(1), T Matsuoka(1), K Kuroiwa(2), Y Sugimoto(2), S Narumiya(1)
(1) Department of Pharmacology, Kyoto University, Japan, (2) Department of Physiological Chemistry, Kyoto University, Japan

July 8 (Wed) 12:10 - 13:10 Room D
Luncheon Seminar 6
Chairperson: Hiroshi Takayanagi (Department of Cell Signaling, Tokyo Medical and Dental University, Japan)

RECENT PROGRESS IN INNATE IMMUNITY: AUTOPHAGY AND INFLAMMATION
Shizuo Akira
Laboratory of Host Defense, WPI Immunology Frontier Research Center, Osaka University, Japan
Sponsored by TEIJIN Pharma Limited.
July 8 (Wed) 14:30 - 16:30  
Room D

**Society Sponsored Symposium 6**

**Inflammasome Activation by Microbes and Danger Signals**

Chairpersons: Vincent Lagente (University of Rennes 1, INSERM U620, France)  
Laurent Baud (Université Paris 6 INSERM U702, France)

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**SSS06.1**  
**THE NALP3 INFLAMMASOME: GUARDIAN OF OUR BODY**  
Jurg Tschopp  
*Department of Biochemistry, Center of Immunology Lausanne, University of Lausanne, Epalinges, Switzerland*

**SSS06.2**  
**UBIQUITIN MODIFICATION IN INNATE IMMUNITY**  
Vishva Dixit  
*Physiological Chemistry – Research, San Francisco Genentech, Inc., USA*

**SSS06.3**  
**BIOLOGICAL FUNCTIONS OF ASC, A KEY MEDIATOR PROTEIN FOR INFLAMMASOME FORMATION**  
Shun’ichiro Taniguchi  
*Department of Molecular Oncology, Graduate School of Medicine, Shinshu University, Japan*

**SSS06.4**  
**URIC ACID, NALP3 INFLAMMASOME ACTIVATION AND IL-1RI/MYD88 SIGNALING ARE ESSENTIAL IN BLEOMYCIN INDUCED PULMONARY INFLAMMATION AND FIBROSIS**  
Isabelle Couillin(1), P Gasse(1), N Riteau(1), V Pétrilli(2), J Tschopp(2), VFJ Quesniaux(1), B Ryffel(1), V Lagente(3)  
(1) University of Orleans and CNRS, IEM-UMR6218, Orleans, France, (2) Department of Biochemistry, University of Lausanne, Epalinges, Switzerland, (3) INSERM U620, Université de Rennes1, France

*Sponsored by Groupe de Recherche et d'Étude des Médiateurs de l'Inflammation (France)*
15. Regenerative Medicine: Cell Therapy, Mesenchymal Stem Cells, ES, Neural and Other Organ Specific Stem/Progenitor Cells, Materials, etc.

WS07-01 [GA15.02 (O/P)]
NON-SKIN MESENCHYMAL CELL TYPES SUPPORT EPIDERMAL REGENERATION IN A MESENCHYMAL STEM CELL OR MYOFIBROBLAST PHENOTYPE-INDEPENDENT MANNER
Shigehisa Aoki(1), T Takezawa(2), K Nagase(1), M Yamasaki(3), F Yamasaki(1), K Uchihashi(1), H Sugihara(4), S Toda(1)
(1) Department of Pathology & Microbiology, Faculty of Medicine, Saga University, Japan, (2) Transgenic Animal Research Center, National Institute of Agrobiological Sciences, Japan, (3) Mineko Skin Clinic, Japan, (4) Department of Pathology, International University of Health and Welfare, Japan

WS07-02 [GA15.03 (O/P)]
THERAPEUTIC ANGIOGENESIS USING EX VIVO FORMED-CAPILLARY NETWORKS BY HUMAN OMENTAL MICROVASCULAR ENDOTHELIAL CELLS
Tomoko Yoshida(1), M Komaki(1), I Morita(2), M Abe(1)
(1) Department of Nanomedicine(DNP), Tokyo Medical and Dental University Graduate School, Japan, (2) Department of Cellular Physiological Chemistry, Tokyo Medical and Dental University Graduate School, Japan

WS07-03 [GA15.05 (O/P)]
THE ROLE FOR INTERFERON REGULATORY FACTOR-2 ON MOUSE HEMATOPOIETIC STEM CELLS IN A INFLAMATION STATE
Atsuko Masumi, I Hamaguchi, T Mizukami, M Kuramitsu, H Momose, K Takizawa, K Yamaguchi
Department of Safety Research on Blood and Biological Products, National Institute of Infectious Diseases, Japan

WS07-04 [GA15.07 (O/P)]
BONE REGENERATION INDUCED BY BIODEGRADABLE GELATIN HYDROGELS INCORPORATING SIMVASTATIN OF WATER INSOLUBILITY
Yasuhiko Tabata, R Takaoka, T Tanigo
Institute for Frontier Medical Sciences, Kyoto University, Japan

WS07-05 [GA15.08 (O/P)]
CHEMOKINE RECEPTORS AND MESENCHYMAL STEM CELL MIGRATION
Jim Middleton(1), G Chamberlain(1), K Wright(1), A Rot(2)
(1) Medical School, RHAH Orthopaedic Hospital, Keele University, UK, (2) Novartis Research Institute, Vienna, Austria
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<th>MESENCHYMAL CELLS WITH ALVEOLAR EPITHELIAL PHENOTYPE IN HUMAN ADULT LUNGS</th>
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<td>Naoya Fujino(1), T Suzuki(2), AE Hegab(1), M He(1), M Yamaya(1), H Kubo(1)</td>
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<td>(1) Department of Advanced Preventive Medicine for Infectious Diseases and Regenerative Medicine, Tohoku University School of Medicine, Japan, (2) Department of Thoracic Surgery, Institute of Development, Aging and Cancer, Tohoku University, Japan</td>
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<td>Takaya Suzuki(1), H Kubo(2), N Fujino(2), HA Ahmad(2), M He(2), M Yamaya(2), T Kondo(1)</td>
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<td>(1) Thoracic Surgery, Institute of Development, Aging and Cancer, Tohoku University, Japan, (2) Department of APMID, and Regenerative Medicine, Tohoku University School of Medicine, Japan</td>
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<td>Sirintip Intarapasit(1), J Viyoch(2)</td>
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<td>(1) Pharmacy Practice, Naresuan University, Thailand, (2) Pharmaceutical Technology, Faculty of Pharmaceutical Sciences, Naresuan University, Thailand</td>
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<td>Tetsu Nishiwaki, K Matsushima</td>
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<td>Department of Molecular Preventive Medicine, School of Medicine, University of Tokyo, Japan</td>
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<td>(1) Department of Periodontology, Osaka University Graduate School of Dentistry, Japan, (2) Department of Biochemistry, Nihon University Graduate School of Dentistry at Matsudo, Japan, (3) Osaka University Medical Hospital, Japan</td>
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<td>(1) Division of Cell Regeneration and Transplantation, Nihon University, Japan, (2) Department of Animal Science, College of Bioresource Science, Nihon University, Fujisawa, Japan, (3) Advanced Medicine and Advanced Research Institute of Sciences and Humanities, Nihon University, Tokyo, Japan, (4) Department of Cardiology, Nihon University School of Medicine, Tokyo, Japan, (5) Department of Urology, Nihon University School of Medicine, Tokyo, Japan, (6) Department of Pediatrics, Nihon University School of Medicine, Tokyo, Japan</td>
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<td>Takushi Tauchi, S Yamada, C Fujihara, T Kajikawa, Y Ozawa, S Murakami</td>
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<td>Department of Periodontology, Osaka University Graduate School of Dentistry, Japan</td>
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WS07-13
[GA15.18 (O/P)]
DIFFERENTIATION CAPABILITY AND RESPONSE TO MECHANICAL STRESS IN DENTAL PULP STEM CELLS
Masaki Hata(1), K Naruse(2), Y Kobayashi(2), N Kojima(1), S Ozawa(1), K Naruse(3), Y Tanaka(1), T Matsubara(2)
(1) Department of Removable Prosthodontics, School of Dentistry, Aichi Gakuin University, Japan, (2) Department of Internal Medicine, School of Dentistry, Aichi Gakuin University, Japan, (3) Department of Cardiovascular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan

WS07-14
[GA15.20 (O/P)]
DIRECTED INDUCTION OF PRIMITIVE STREAK FROM EMBRYONIC STEM CELLS CULTURED IN A CHEMICALLY DEFINED MEDIUM
Mio Nakanishi(1), A Kurisaki(2), Y Hayashi(1), M Warashina(3), S Ishiura(1), MK Furue(4), M Asashima(1)
(1) Department of Life Sciences (Biology), Graduate School of Arts and Sciences, The University of Tokyo, Japan, (2) Organ Development Research Laboratory, National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan, (3) Genome Research Laboratories, Wako Pure Chemical Industries, Ltd., Hyogo, Japan, (4) Division of Bioresources, National Institute of Biomedical Innovation, Osaka, Japan

WS07-15
[GA15.21 (O/P)]
ONCOSTATIN M ATTENUATES HEPATIC CANCER STEM CELLS BY INDUCING HEPATOCYTIC DIFFERENTIATION
Yuji Hodo, T Yamashita, K Nio, M Honda, S Kaneko
Kanazawa University, Japan

WS07-16
[GA15.22 (O/P)]
ANGIOGENESIS DURING HIND LIMB ISCHEMIA IS ENHANCED WITH ERYTHROPOIETIN THROUGH THE INCREASED PLATELET ADHESION.
Shintaro Kato(1), H Amano(2), Y Matsui(2), Y Ito(3), N Aoyama(4), Y Sato(2), T Izumi(4), M Majima(1)
(1) Department of Pharmacology, Kitasato University School of Medicine, Japan, (2) Department of Thoracic Surgery, Kitasato University School of Medicine, Japan, (3) Department of Surgery, Kitasato University School of Medicine, Japan, (4) Department of Cardiology, Kitasato University School of Medicine, Japan

WS07-17
[GA15.23 (O/P)]
THE EFFECT OF HYPOXIC CULTURE ON CULTIVATED CORNEAL LIMBAL EPITHELIAL CELL SHEETS
Hideyuki Miyashita, S Shimmura, M Kubota, K Tsubota
Ophthalmology, Keio University School of Medicine, Japan
July 9 (Thu) 9:00 - 9:50

**Keynote Lecture 5**

**Treating Inflammation by Inhibition of Chemokine Receptors: Practical Requirements and Efficacy of CCR9 Antagonism in Inflammatory Bowel Disease**

Chairperson: Lisa Marshall (Inflammatory Diseases, Johnson and Johnson Pharmaceuticals, USA)

Speaker: Thomas J Schall (ChemoCentryx, Inc., USA)

July 9 (Thu) 10:00 - 12:00

**Morning Symposium 3-1**

**New Strategy for the Discovery of Anti-inflammatory Drugs**

Chairpersons: Shinichi Kawai (Division of Rheumatology, Department of Internal Medicine, Toho University School of Medicine, Japan)

James Winkler (Discovery and Translational Biology, Array BioPharma Inc., USA)

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**MS03-1.1** THERAPEUTIC APPROACH TO TH1-TYPE BRONCHIAL ASTHMA IN TRANSIENTLY HUMANIZED MICE BY USING HUMAN ANTI-HUMAN IL-18 ANTIBODY

Kenji Nakanishi

Department of Immunology and Medical Zoology, Hyogo College of Medicine, Japan

**MS03-1.2** ALLOSTERIC REGULATION IN THE DESIGN OF KINASE INHIBITORS FOR THE TREATMENT OF INFLAMMATORY DISEASE

Kevin Koch

Array BioPharma Inc., USA

**MS03-1.3** DE NOVO DRUG DESIGN FOR PPI (PROTEIN-PTOTEIN INTERACTION) TARAGETS

Takao Matsuzaki(1), Y Koezuka(2)

(1) Independent Drug Design Advisor, Japan, (2) Interprotein Corporation, Japan

**MS03-1.4** ANTI-INFLAMMATORY LESSONS TAUGHT BY VIRUSES

Daved H Fremont

Department of Pathology and Immunology, Washington University School of Medicine, St Louis, USA
**Young Investigator’s Award Contestants’ Session (Van Arman Award)**

Chairpersons: Gordon Letts (Targanox Inc., USA)

Richard P. Carlson

**Introduction**

**LIFE AND SCIENTIFIC CAREER OF C. GORDON VAN ARMAN, PH.D.**

Richard P. Carlson

**YIA1**

**CRUCIAL INVOLVEMENT OF THE CCR2/CCL2 INTERACTIONS IN AZOXYMETHANE/DEXTRAN SODIUM SULFATE-INDUCED COLON CARCINOGENESIS IN MICE**

Boryana K. Popivanova, Feodora I. Kostadinova, Naofumi Mukaida

*Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan*

**YIA2**

**ADIPOSE TISSUE REMODELING, CHRONIC INFLAMMATION AND T-CELL-MACROPHAGE INTERACTIONS IN OBESITY VISUALIZED BY IN VIVO MOLECULAR IMAGING METHOD**

Satoshi Nishimura(1,2,3), Mika Nagasaki(1,4), Ichiro Manabe(1,2,3), Koji Eto(5), Takashi Kadowaki(6), Ryozo Nagai(1)

(1) Department of Cardiovascular Medicine, The University of Tokyo, Japan, (2) Nano-Bioengineering Education Program, The University of Tokyo, Japan, (3) PRESTO, Japan Science and Technology Agency, Japan, (4) Computational Diagnostic Radiology and Preventive Medicine, The University of Tokyo, Japan, (5) Laboratory of Stem Cell Therapy, Center for Experimental Medicine, Institute of Medical Science, The University of Tokyo, Japan, (6) Department of Metabolic Diseases, The University of Tokyo, Japan

**YIA3**

**THE ROLES OF ENDOGENOUSLY-PRODUCED CHEMOKINES IN THE DEVELOPMENT OF TISSUE-SPECIFIC MYELOID-LINEAGE CELLS AND MACROPHAGES**

Akiyoshi Hoshino

*International Clinical Research Center, Research Institute, International Medical Center of Japan, Tokyo, Japan*

**YIA4**

**PROSTAGLANDIN E RECEPTOR SUBTYPES EP2 AND EP4 PROMOTE T_{H}1 CELL DIFFERENTIATION AND T_{H}17 CELL EXPANSION THROUGH DIFFERENT SIGNALING MODULES**

Daiji Sakata(1), Chengcan Yao(1,#), Yoshiyasu Esaki(1), Youxian Li(1), Toshiyuki Matsuoka(1), Kenji Kuroiwa(2), Yukihiro Sugimoto(2), Shuh Narumiya(1)

(1) Department of Pharmacology, Faculty of Medicine, Kyoto University, Kyoto, Japan, (2) Department of Physiological Chemistry, Faculty of Pharmaceutical Sciences, Kyoto University, Kyoto, Japan, (#) Present Affiliation, Jinan University College of Pharmacy, Guangzhou, China
YIA5
Nabil Foudi(1,2), Thierry Cachina(1), Liliane Louedec(1), Xavier Norel(1)
(1) INSERM U698: Haemostasis, Bio-engineering and Cardiovascular Remodeling, CHUX. Bichat Paris, France, (2) Paris XIII University, Villetaneuse, France

YIA6
[GA06.15] QUANTITATIVE ANALYSIS OF PROMOTER ACTIVITY BY GREEN FLUORESCENT PROTEIN (GFP) TARGET/REPORTER STRATEGY IN A NOVEL TRANSGENIC alx/fpr-rs2 NULL MOUSE
Neil Peter Dufton, R Hannon, M Perretti, R Flower
William Harvey Research Institute, Queen Mary University of London, UK

YIA7
[GA02.25] SELECTIVE β-ADRENERGIC RECEPTOR EXPRESSION ON HUMAN MEMORY CD8⁺ T LYMPHOCYTE SUBSETS REGULATES MOBILIZATION AND INF-γ PRODUCTION
Natalie E. Riddell(1), Graham R. Wallace(2), Amber Van Stijn(3), Rene A. van Lier(3), Mark T. Drayson(4), Mike Salmon(2), Jos A. Bosch(1)
(1) School of Sport & Exercise Sciences, University of Birmingham, UK, (2) Division of Infection and Immunity, University of Birmingham, UK, (3) Academic Medical Centre, University of Amsterdam, the Netherlands, (4) Department of Clinical Immunology, University of Birmingham, UK

July 9 (Thu) 16:15 - 17:00 Room A
Women in Inflammation Science Award Lecture
Inflammation, Sensory Nerves and the Cough Reflex

Chairperson: Lisa Marshall (Inflammatory Diseases, Johnson and Johnson Pharmaceuticals, USA)

Speaker: Maria G. Belvisi (Department of National Heart and Lung Institute, Imperial College London, UK)

July 9 (Thu) 17:10 - 18:00 Room A
Inflammation Lifetime Achievement Award Lecture
Prostanoids in Inflammation; A New Concept Arising From Receptor-knockout Mouse Studies

Chairpersons: Alan Lewis (JDRF International, USA)

Kouji Matsushima (Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan)

Speaker: Shuh Narumiya (Department of Pharmacology, Kyoto University Faculty of Medicine, Japan)
**July 9 (Thu) 10:00 - 12:00**

**Room B**

**Morning Symposium 3-2**

**Regenerative Medicine - 1**

Chairpersons: Tatsutoshi Nakahata (Clinical Application Department, Center for iPS Cell Research and Application (CiRA), Institute for Integrated Cell-Material Sciences, Kyoto University, Japan)

Hideyuki Okano (Department of Physiology, Keio University School of Medicine, Japan)

- **MS03-2.1** FUTURE OF REGENERATIVE MEDICINE WITH VARIOUS STEM CELLS
  Tatsutoshi Nakahata
  *Clinical Application Department, Center for iPS Cell Research and Application (CiRA), Institute for Integrated Cell-Material Sciences, Kyoto University, Japan*

- **MS03-2.2** NEURAL DIFFERENTIATION AND CELL THERAPY USING PLURIPOTENT STEM CELLS
  Hideyuki Okano
  *Department of Physiology, Keio University School of Medicine, Japan*

- **MS03-2.3** REGENERATION THERAPY FOR HEART FAILURE
  Issei Komuro
  *Department of Cardiovascular Science and Medicine, Chiba University Graduate School of Medicine, Chiba, Japan*

- **MS03-2.4** INDUCTION OF PLURIPOTENCY IN SOMATIC AND GERMLINE CELLS
  Hans R Schoeler
  *Max Planck Institute for Molecular Biomedicine, Department of Cell and Developmental Biology, Germany*

**July 9 (Thu) 12:10 - 13:10**

**Room B**

**Luncheon Seminar 7**

Chairperson: Tsuneyo Mimori (Department of Rheumatology and Clinical Immunology Graduate School of Medicine, Kyoto University, Japan)

- **LS07** CHEMOKINES AND INFLAMMATION IN KIDNEY
  Takashi Wada
  *Department of Laboratory Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Faculty of Medicine, Kanazawa University, Japan*

  Sponsored by Otsuka Pharmaceutical Co., Ltd.
Society Sponsored Symposium 7

Inflammation Research in China

Chairpersons: Jian-Ping Zuo (Laboratory of Immunopharmacology, First Department of Pharmacology, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China)

Yanyun Zhang (Shanghai Institute of Immunology and Institute of Health Sciences, Institute of Medical Sciences, Shanghai Jiao Tong University School of Medicine, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China)

SSS07.1  SHP-1 OPPOSITELY REGULATES PROINFLAMMATORY CYTOKINE AND TYPE I INTERFERON PRODUCTION IN TLR-MEDIATED INNATE IMMUNE RESPONSES
Huazhang An, J Hou, J Zhou, X Cao
Institute of Immunology and National Key Laboratory of Medical Immunology, Second Military Medical University, Shanghai, China

SSS07.2  THE MECHANISMS AND THERAPEUTIC EFFECTS OF (5R)-5-HYDROXYTRIPTOLIDE (LLDT-8) IN COLLAGEN-INDUCED ARTHRITIS IN DBA/1 MICE
Jian-Ping Zuo, R Zhou, W Tang, P-L He, Y-F Yang
Laboratory of Immunopharmacology, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, China

SSS07.3  DOES INFLAMMATION CUT TO THE “BRAIN AND HEART” OF THE MATTER?
Xiaohui Li
Institute of Materia Medica and Department of Pharmaceutics, College of Pharmacy, Third Military Medical University, China

SSS07.4  DYNAMIC EXPRESSION OF CXCR3 ON ALLOREACTIVE T CELLS HAMPERED ITS NEUTRALIZING ANTIBODY-MEDIATED GVHD INHIBITION
Yanyun Zhang(1), F Zhao(1), H Shan(1,2), M Jin(1), Y Zhang(2)
(1) Shanghai Institute of Immunology and Institute of Health Sciences, Institutes of Medical Sciences, Shanghai Jiao Tong University School of Medicine & Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China, (2) Department of Internal Medicine, University of Michigan, Ann Arbor, MI, USA

SSS07.5  A TRICHOSANTHIN-DERIVED PEPTIDE TETRAMER IS CAPABLE OF DEPRESSING INFLAMMATION IN AUTOIMMUNE CIA AND EAE BY ACTIVATION OF IL-10/IL-4-SECRETING CD8(+)CD28(-)CTLA4(+) TREGS
Guang-Yan Zhou, N Yang, Z Jiao, X Zhou, Y Zhou, L Lu
Shanghai Institute of Immunology, Shanghai Jiaotong University School of Medicine, Shanghai, China

Sponsored by Chinese Inflammation Research Group
Industry Sponsored Symposium 4

The Inflammatory Bowel Disease and Gut Mucosal Immunology
Chairpersons: Toshifumi Hibi (Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, Japan)
Masayuki Miyasaka (Laboratory of Immunodynamics, Department of Microbiology and Immunology, Osaka University Graduate School of Medicine, Japan)

ISS04.1  THE CENTRAL ROLE OF IL-25 IN REGULATING IMMUNITY AND INFLAMMATION IN THE INTESTINE
Colby Zaph  
The Biomedical Research Centre, University of British Columbia, Canada

ISS04.2  REGULATORY ANTIGEN PRESENTING CELLS IN THE GUT
Myoung ho Jang  
Laboratory of Gastrointestinal Immunology, WPI Immunology Frontier Research Center, Osaka University, Japan

ISS04.3  MECHANISM OF TH17 CELL DIFFERENTIATION IN THE INTESTINAL LAMINA PROPRIA
Kenya Honda  
Laboratory of Immune Regulation, Graduate School of Medicine, Osaka University, WPI Immunology Frontier Research Center, Osaka University, Precursory Research for Embryonic Science and Technology (PREST), Japan Science and Technology Agency, Japan

ISS04.4  INTESTINAL MACROPHAGES AND NK CELLS PLAY A CRUCIAL ROLE FOR THE PATHOGENESIS OF CROHN’S DISEASE
Tadakazu Hisamatsu, Toshifumi Hibi  
Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan

Sponsored by Mitsubishi Tanabe Pharma Corporation
July 10 (Fri) 9:00 - 9:50 Room A

Keynote Lecture 6

Tissue Engineering: The Past, the Present, and the Future

Chairperson: Yasuhiko Tabata (Department of Biomaterials, Institute for Frontier Medical Sciences, Kyoto University, Japan)

Speaker: Robert M. Nerem (Perker H. Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, USA)

July 10 (Fri) 10:00 - 12:00 Room A

Morning Symposium 4-1

Novel Therapeutic Approaches

Chairpersons: Nobuyuki Miyasaka (Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan)

Ian Ahnfelt-Ronne (BRU Pharmacology, Novo Nordisk A/S, Denmark)

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<td>Hiroshi Takayanagi</td>
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<td>Department of Cell Signal, Tokyo Medical and Dental University, Japan</td>
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<td>Richard M. Pope, QQ Huang, C Nicchitta, B Shi, PP Tak, GK Haines, HP Perlman</td>
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<td>Department of Medicine, Northwestern University Feinberg School of Medicine, USA</td>
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<td>Kenji Chiba</td>
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<td>Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan</td>
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<td>Hitoshi Kohsaka, Y Murakami, N Miyasaka</td>
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<tr>
<td>Department of Medicine and Rheumatology, Graduate School, Tokyo Medical and Dental University, Japan</td>
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July 10 (Fri) 12:10 - 12:30 Room A

Closing Remarks
Morning Symposium 4-2
Regenerative Medicine - 2

Chairpersons: Minoru Ueda (Department of Oral and Maxillofacial Surgery, Graduate School of Medicine, Nagoya University, Japan)
Teruo Okano (Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan)

**MS04-2.1**  CELL SHEET TISSUE ENGINEERING FOR HUMAN CLINICAL STUDY
Teruo Okano
*Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan*

**MS04-2.2**  MYOCARDIAL REGENERATION THERAPY USING AUTOLOGOUS CELL SHEET
Yoshiki Sawa(1), A Saito(1), T Shimizu(2), T Okano(2)
(1) Department of Cardiovascular Surgery, Osaka University Graduate School of Medicine, Japan, (2) Institute of Advanced Biomedical Engineering and Science, Tokyo Women's Medical University, Japan

**MS04-2.3**  THE FUTURE POSSIBILITIES OF TEETH PULP STEM CELL FOR TISSUE ENGINEERING THERAPY
Minoru Ueda
*Department of Oral and Maxillofacial Surgery, Graduate School of Medicine, Nagoya University, Japan*

**MS04-2.4**  FORMATION OF NEW BONE AND CONNECTIVE TISSUE AND THE IMPACT OF IMPLANT MATERIAL COMPOSITIONS
Thomas Engstrand
*Stockholm Craniofacial Centre, Department of Reconstructive Plastic Surgery, Karolinska University Hospital, Karolinska Institute, Stockholm & Department of Materials Chemistry, The Ångström Laboratory, Uppsala University, Sweden*
July 7 (Tue) 19:00 - 21:00
Room Hana

Poster Discussion with Wine and Cheese

Discussion Leader: Teizo Yoshimura (Laboratory of Immunoregulation, Cancer and Inflammation Program, Center for Cancer Research, National Cancer Institute at Frederick, USA)

GA01. Disease Models

GA01.01 DEVELOPMENT OF KLEBSIELLA PNEUMONIAE B5055 INDUCED MOUSE MODEL OF SEPSIS ASSOCIATED BRAIN INFLAMMATION IN BALB/C MICE
Kumar Vijay
Microbiology, Panjab University, India

GA01.02 ADIPOSE TISSUE REMODELING, CHRONIC INFLAMMATION AND T-CELL-MACROPHAGE INTERACTIONS IN OBESITY VISUALIZED BY IN VIVO MOLECULAR IMAGING METHODS
Satoshi Nishimura(1), M Nagasaki(1), I Manabe(1), K Eto(2), T Kadowaki(3), R Nagai(1)
(1) Department of Cardiovascular Medicine, The University of Tokyo, Japan, (2) Laboratory of Stem Cell Therapy, Center for Experimental Medicine, Institute of Medical Science, The University of Tokyo, Japan, (3) Department of Metabolic Diseases, The University of Tokyo, Japan

GA01.03 UPREGULATED EXPRESSION OF GENES ASSOCIATED WITH CELL ADHESION IN THE EARLY STEP OF PATHOPHYSIOLOGY OF MOUSE ENDOMETRIOSIS MODEL
Masakazu Umezawa(1), N Tanaka(1), H Tainaka(2), K Takeda(1), T Ihara(3), M Sugamata(3)
(1) Department of Hygienic Chemistry, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Japan, (2) Research Center for Health Sciences of Nanoparticles, Research Institute for Science and Technology, Tokyo University of Science, Japan, (3) Department of Pathology, Tochigi Institute of Clinical Pathology, Japan

GA01.04 EFFECTOR CD8 T CELLS AND LOCAL INNATE IMMUNITY NEED TO ACT IN CONCERT FOR DEVELOPMENT OF AUTOIMMUNE MYOSITIS.
Naoko Okiyama(1), T Sugihara(2), H Yokozeki(1), N Miyasaka(2), H Kohsaka(2)
(1) Department of Dermatology, Graduate School, Tokyo Medical and Dental University, Japan, (2) Department of Medicine and Rheumatology, Graduate School, Tokyo Medical and Dental University, Japan

GA01.05 (O/P) SEVERE AND PROLONGED IRRITANT CONTACT DERMATITIS IN ZINC DEFICIENT MOUSE
Tatsuyoshi Kawamura(1), Y Ogawa(1), A Izumi(2), T Kodama(2), S Shimada(1)
(1) Department of Dermatology, University of Yamanashi, Japan, (2) Laboratory for System Biology and Medicine, RCAST, University of Tokyo, Japan

GA01.06 (O/P) PIVOTAL ROLE OF CEREBRAL INTERLEUKIN-17-PRODUCING γδT CELLS IN THE LATE PHASE OF ISCHEMIC BRAIN INJURY
Takashi Shichita(1), DJ Cua(2), Y Iwakura(3), M Iida(4), A Yoshimura(1)
(1) Department of Microbiology and Immunology, Keio University, School of Medicine, Japan, (2) Department of Immunology, DNAX Research Inc, California, USA, (3) Center for Experimental Medicine and Department of Cancer Biology, Institute of Medical Science, University of Tokyo, Tokyo, Japan, (4) Department of Medicine and Clinical Science, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan
GA01.07  MUSCLE MASS AND LOCOMOTION MEASUREMENTS IN A MODEL OF COLLAGEN INDUCED ARTHRITIS
Anita Hartog(1), J Garssen(2)
(1) Immunology, Danone Research, the Netherlands, (2) Department of Pharmacology & Pathology, Utrecht University, the Netherlands

GA01.08  QUANTITATIVE AND QUALITATIVE COLLAGEN ANALYSIS OF MOUSE BLEOMYCIN-INDUCED LUNG FIBROSIS FOLLOWING TREATMENT WITH IMATINIB
Reinout Stoop, J Attema, B Marrie, C de Ruiter, J Snabel, R Hanemaaijer
Department of Tissue Repair, TNO BioSciences, the Netherlands

GA01.09  MODELLING THE EFFECTS OF KIWIFRUIT EXTRACTS IN INFLAMMATORY BOWEL DISEASE: IN VITRO TO IN VIVO.
Shelley Jane Edmunds(1), WA Laing(1), DR Love(2), NC Roy(3)
(1) Functional Foods & Health, The New Zealand Institute for Plant & Food Research Ltd, New Zealand, (2) School of Biological Sciences, University of Auckland, Auckland, New Zealand, (3) Food, Metabolism & Microbiology Section, Food & Textiles Group, Palmerston, New Zealand

GA01.10  DOES DIABETES AFFECT THE DEVELOPMENT OF ADJUVANT-INDUCED ARTHRITIS IN RATS?
Francis FY Lam(1), ESK Ng(1), DTW Lau(2), VKM Lau(3), MYH Lee(3), PC Leung(3), KP Fung(3)
(1) Department of Pharmacology, The Chinese University of Hong Kong, Hong Kong, China, (2) Department of Chemical Engineering, The Hong Kong University of Science and Technology, Hong Kong, China, (3) Institute of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, China

GA01.11 (O/P)  IFN-γ IS A THERAPEUTIC TARGET MOLECULE FOR PREVENTION OF POSTOPERATIVE ADHESION FORMATION
Tomohiro Yoshimoto(1), H Kosaka(2), J Fujimoto(2), K Nakanishi(1)
(1) Department of Immunology and Medical Zoology, Hyogo College of Medicine, Japan, (2) Department of Surgery, Hyogo College of Medicine, Nishinomiya, Japan

GA01.12  RE-EVALUATION OF LYMPHOPENIC MOUSE TRANSFER MODEL FOR THE STUDY OF ANTINUCLEAR AUTOANTIBODIES
Takeyuki Kanzaki, K Kawahata, K Yamamoto
Department of Allergy and Rheumatology, Graduate School of Medicine, the University of Tokyo, Japan

GA01.13  THE CHEMOKINE RECEPTOR 2 ANTAGONIST INCB3344 REDUCES PULMONARY MONOCYTIC INFLAMMATION IN MOUSE MODELS OF COPD
Silke Hobbie, S-L Wollin
Pulmonary Disease Research, Boehringer-Ingelheim Pharma GmbH & Co KG, Germany

GA01.14  ANALYSIS OF PATHOGENIC FIBROSIS IN ANIMAL MODEL OF OCULAR CHRONIC GRAFT VERSUS HOST DISEASE
Yoko Ogawa(1), S Shimmura(1), T Inaba(1), Y Kawakami(2), H Okano(3), K Tsubota(1)
(1) Department of Ophthalmology, Keio University School of Medicine, Japan, (2) Institute for Advanced Medical Research, Keio University, School of Medicine, Japan, (3) Department of Physiology, Keio University, School of Medicine, Japan

GA01.15  [WITHDRAWN]
GA02. Basic Studies on Inflammation and Immunity

GA02.01 MODULATION OF MYCOBACTERIUM BOVIS (BCG)-INDUCED CYTOKINE RESPONSE BY IL-17
Jun Wei Fang, J Li, H Yim, A Lau
Department of Paediatrics & Adolescent Medicine, The University of Hong Kong, Hong Kong, China

GA02.02 (O/P) IDENTIFICATION OF A NOVEL PATHWAY INVOLVED IN THE CLEARANCE OF PHAGOCYTIC TARGETS IN VIVO
Jenna Louise Cash, DR Greaves, A Christian
Sir William Dunn School of Pathology, Oxford University, UK

GA02.03 (O/P) REGULATION OF CYTOTOXIC T LYMPHOCYTE ACTIVITY BY PIR-B EXPRESSED ON DENDRITIC CELLS
Shota Endo, A Nakamura, T Takai
Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, CREST, JST, Japan

GA02.04 B CELL CHEMOATTRACTANT CXCL13 IS PREFERENTIALLY EXPRESSED BY HUMAN TH17 CELL CLONES
Sho Matsushita, T Higashi
Allergy and Immunology, Saitama Medical University, Japan

GA02.05 (O/P) MEDULLARY ISLETS: POSSIBLE NICHE FOR THE DIFFERENTIATION AND SURVIVAL OF THE PLASMA CELLS IN THE REACTIVE LYMPH NODES
Jun Abe(1), S Ueha(1), M Kurachi(1), Y Shono(1), H Yoneyama(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, University of Tokyo, Japan, (2) STELIC Institute, Japan

GA02.06 CTL MEMORY SIGNATURE BY GENOME-WIDE TRANSCRIPTOME ANALYSIS USING A NEXT GENERATION DNA SEQUENCER
Shinichi Hashimoto(1), Y Lee(1), M Kurachi(1), B Ahsan(2), A Sasaki(2), Y Suzuki(3), S Sugano(3), S Morishita(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Computational Biology, Graduate School of Frontier Sciences, The University of Tokyo, Japan, (3) Department of Medical Genome Science, Graduate School of Frontier Science, The University of Tokyo, Kashiwa, Japan

GA02.07 TH2 IMMUNE RESPONSE AND ALTERNATIVELY ACTIVATED MACROPHAGES (AAMACS) IN AGED MICE WITH HELMINTH INFECTION
Motoko Morimoto, Y Sugawara, S Onodera, Y Tsunoka
Miyagi University, Japan

GA02.08 (O/P) CHEMOKINES IN INFLAMMATION: ENDOTHELIAL MICROVILLI FORMATION
Jim Middleton, C Whittall, O Keohoe, S Turner
Medical School, RJAH Orthopaedic Hospital, Keele University, UK

GA02.09 CLIC1 IS INVOLVED IN THE REGULATION OF IMMUNE RESPONSES VIA MODULATING MACROPHAGE FUNCTIONS
Lele Jiang(1), MR Qiu(1), T Kuffner(1), PGM Curnn(2), LJ Brown(3), SN Breit(1)
(1) St Vincent's Centre for Applied Medical Research, St Vincent's Hospital Sydney, Australia, (2) School of Physics, the University of New South Wales, Sydney, Australia, (3) Department of Chemistry and Biomolecular Sciences, Macquarie University, Sydney, Australia
GA02.10 INDUCTION OF HUMAN TH17 CELLS BY MONOCYTE-DERIVED DENDRITIC CELLS
Sanju Iwamoto(1), S Iwai(2), H Yasuhara(3)
(1) Department of Biochemistry, School of Medicine, Showa University, Japan, (2) 1st Department of Pharmacology, School of Medicine, Showa University, Japan, (3) 2nd Department of Pharmacology, School of Medicine, Showa University, Japan

GA02.11 REGULATION OF INFLAMMATORY RESPONSE BY IMMUNOBIOPTICS IN SWINE INTESTINAL EPITHELIAL CELLS VIA MKP-1
Tomoyuki Shimazu(1), M Tohno(1), S Hosoya(1), H Fujie(1), T Shimosato(2), H Aso(1), Y Suda(3), Y Kawai(1), T Saito(1), H Kitazawa(1)
(1) Graduate School of Agricultural Science, Tohoku University, Japan, (2) Fiber-Nanotech Young Researcher Empowerment Center, Shinshu University, Minamiminowa, Japan, (3) Department of Food, Agriculture and Environment, Miyagi University, Sendai, Japan

GA02.12 CPG OLIGODEOXYNUCLEOTIDE FROM STREPTOCOCCUS THERMOPHILUS LACZ STRONGLY INDUCES THE EXPRESSION OF INTERLEUKIN-33 IN MURINE IMMUNE CELLS
Takeshi Shimosato(1), M Tohno(2), T Sato(3), M Tateo(4), H Otani(4), H Kitazawa(5)
(1) Fiber-Nanotech Young Researcher Empowerment Center, Shinshu University, Japan, (2) JSPS fellow, Graduate School of Dentistry, Tohoku University, Japan, (3) Graduate School of Medicine, Yokohama City University, Yokohama, Japan, (4) Graduate School of Agriculture, Shinshu University, Minamiminowa, Japan, (5) Graduate School of Agricultural Science, Tohoku University, Sendai, Japan

GA02.13 (O/P) RECOGNITION OF ORIENTIA TSUTSUGAMUSHI BY THE CYTOPLASMIC PATTERN RECOGNITION RECEPTORS
Jung-Eun Koo(1), KS Kobayashi(2), Y-S Koh(1)
(1) Department of Microbiology, Jeju National University School of Medicine, Korea, (2) Department of Cancer Immunology & AIDS, Dana-Farber Cancer Institute and Department of Pathology, Harvard Medical School, Boston, USA

GA02.14 INVOLVEMENT OF POLYAMINE METABOLISM IN THE METHYLATION STATUS OF ITGAL PROMOTER POSSIBLY REGULATES THE EXPRESSION OF LYMPHOCYTE FUNCTION ASSOCIATED ANTIGEN-1
Yoshihiko Kano, K Soda, F Konishi
Department of Surgery, Saitama Medical Center, Jichi Medical University, Japan

GA02.15 (O/P) NEWLY DESIGNED POTENT INHIBITORY OLIGODEOXYNUCLEOTIDE SUPPRESSES CPG -INDUCED TNFA, MIP-2, AND NO PRODUCTION
Hiroshi Yamada, O Yamaguchi, S Nagai, Y Sugawara, T Miki, Y Yamaguchi, Y Hamada
Division of Critical Care, Yokohama City University Medical Center, Japan

GA02.16 IDENTIFICATION AND CHARACTERIZATION OF ENDOTHELIAL ANTI-ADHESION MOLECULES
Yasunori Abe(1), CW Smith(2), CM Ballantyne(3), N-A Bui-Thanh(2), AR Burns(4), H Fukaya(1), M Kawakami(1)
(1) Cardiovascular Research Institute, Saitama Medical Center, Jichi Medical University, Japan, (2) Section of Leukocyte Biology, Department of Pediatrics, Baylor College of Medicine, USA, (3) Section of Atherosclerosis and Vascular Medicine, Department of Medicine, Baylor College of Medicine, USA, (4) Section of Cardiovascular Sciences, Department of Medicine, Baylor College of Medicine, USA

GA02.17 (O/P) A ROLE FOR GLYCOGEN SYNTHASE KINASE 3 IN THE NEGATIVE REGULATION OF IL-10 EXPRESSION IN MYCOBACTERIAL INFECTION
Allan Lau, M Chan, B Cheung, J Li, L Chan
Department of Paediatrics and Adolescent Medicine, The University of Hong Kong, Hong Kong, China
GA02.18 REGULATION OF 11BETA-HYDROXysteroid Dehydrogenase TYPE 1 DURING INFLAMMATORY RESPONSE
Jiri Pacha(1), K Vagnerova(1), P Ergang(1), P Leden(1), I Miksik(1), M Kment(2)
(1) Department of Epithelial Physiology, Institute of Physiology, Czech Academy of Sciences, Czech Republic, (2) Second Department of Internal Medicine, Charles University, Prague

GA02.19 INHIBITION OF PKC DELTA DOWNREGULATES TTP EXPRESSION IN J774 MACROPHAGES
Tiina Leppanen(1), U Jalonen(1), R Korhonen(1), RK Tuominen(2), E Moilanen(1)
(1) Medical School, Immunopharmacology, University of Tampere, Finland, (2) Division of Pharmacology and Toxicology, University of Helsinki Faculty of Pharmacology, Helsinki, Finland

GA02.20 A CRITICAL ROLE OF IL-6-INDUCED STAT3 ACTIVATION ON TRANSCRIPTIONAL REGULATION OF ACUTE PHASE PROTEINS, SAA AND CRP, IN INFLAMMATION
Tepppei Nishikawa, J Song, K Yoshizaki
Center for Advanced Science and Innovation, Osaka University, Japan

GA02.21 AMPK ACTIVATION LEADS TO P38 MAPK ACTIVATION AND COX-2 GENE EXPRESSION
Mei Ying Chang, ZX Ye
Department of Pharmacology, National Taiwan University, Taiwan

GA02.22 MAINTENANCE OF MEMORY CD8+ T CELL DIVERSITY AND PROLIFERATIVE POTENTIAL BY A PRIMARY RESPONSE UPON RE-CHALLENGE
Makoto Kurachi(1), K Kakimi(2), S Ueha(1), J Abe(1), F Suenaga(1), K Kajiro(1), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Immunotherapeutics (Medinet), Graduate School of Medicine, The University of Tokyo, Japan

GA02.23 IDENTIFICATION OF A NOVEL EGR-2 DEPENDENT IL-10-SECRETING CD4+CD25-LAG3+ REGULATORY T CELL
Tomohisa Okamura(1), F Keishi(1), M Shibuya(1), S Sumitomo(1), H Shoda(1), S Sakaguchi(2), K Yamamoto(1)
(1) Department of Allergy and Rheumatology, University of Tokyo, Japan, (2) Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University, Japan

GA02.24 TRANSLATIONAL IMPACT FOR ALTERED EXPRESSION OF THE ANNEXIN A1 PATHWAY IN VASCULITIDES
Jesmond Dalli(1), JV Hollywood(2), LV Norling(1), M Pederzoli-Ribeil(1), F D’Acquisto(1), B Basgupta(2), M Perretti(1)
(1) Centre for Biochemical Pharmacology, Barts and The London, Queen Mary University of London, UK, (2) Department of Orthopaedics, Southend Hospital, Essex, SS0 0RY, UK

GA02.25 SELECTIVE β-ADRENERGIC RECEPTOR EXPRESSION ON MEMORY CD8+ T LYMPHOCYTE SUBSETS REGULATES EFFECTOR FUNCTION IN HUMANS
Natalie Elizabeth Riddell(1), L Anane(1), M Salmon(2), MT Drayson(3), PA Moss(4), GR Wallace(2), JA Bosch(1)
(1) School of Sport & Exercise Sciences, University of Birmingham, UK, (2) Division of Immunity and Infection, University of Birmingham, UK, (3) Division of Clinical Immunology, University of Birmingham, UK, (4) C.R. U.K Institute for Cancer Studies, University of Birmingham, UK
GA02.26 CYCLOSPORIN A AND PHENYTOIN DIFFERENTLY MODULATE TOLL-LIKE RECEPTOR-MEDIATED RESPONSES IN HUMAN GINGIVAL FIBROBLASTS
Ana Maria Masae Suzuki, A Yoshimura, T Kaneko, Y Hara
Department of Periodontology, Nagasaki University, Japan

GA02.27 INDUCTION OF THYMIC STROMAL LYMPHOPOIETIN BY CHEMICAL COMPOUNDS IN VIVO AND ANALYSIS OF THE PRODUCING CELLS
Nozomi Satou(1), K Ishihara(2), N Hirasawa(1)
(1) Graduate School of Pharmaceutical Sciences, Tohoku University, Japan, (2) Graduate School of Engineering, Tohoku University, Japan

GA02.28 (O/P) FORCED EXPRESSION OF SOCS5 IN T CELLS PROLONGS THE SEVERITY OF MURINE ARTHRITIS INDUCED BY ANTI-TYPE II COLLAGEN ANTIBODY
Tomohiro Takahata(1), S Fushimi(2), A Hida(2), T Ozaki(1), K Nishida(1), M Kubo(3), A Matsukawa(2)
(1) Department of Orthopaedic Surgery, Okayama University Graduate School of Medicine, Japan, (2) Department of Pathology and Experimental Medicine, Okayama University, Japan, (3) Laboratory for Signal Network, Research Center for Allergy and Immunology, RIKEN Yokohama Institute, Yokohama, Japan

GA02.29 RELEASE OF NICKEL FROM THE IMPLANTED WIRE IN VIVO AND ENHANCEMENT BY LIPOPOLYSACCHARIDE
Rina Tanaka(1), Y Goi(1), K Ishihara(2), K Ueda(2), T Narushima(2), H Otsu(2), K Ouchi(3), N Hirasawa(1)
(1) Graduate School of Pharmaceutical Sciences, Tohoku University, Japan, (2) Graduate School of Engineering, Tohoku University, Japan, (3) Faculty of Pharmacy, Yasuda Women's University, Japan

GA02.30 (O/P) ROLE AND MECHANISMS OF REACTIVE ASTROCYTE S MIGRATION AFTER SPINAL CORD INJURY
Francois Renault-Mihara(1), M Mukaino(2), M Nakamura(2), Y Toyama(2), H Okano(1)
(1) Physiology, Keio University School of Medicine, Japan, (2) Department of Orthopedic Surgery, Keio University School of Medicine, Japan

GA02.31 (O/P) ABSENCE OF SPRED-2 ENHANCES INNATE IMMUNITY DURING SEPTIC PERITONITIS
Yasumasa Okazaki(1), S Fushimi(1), M Yoshiro(1), H Wakabayashi(1), A Yoshimura(2), A Matsukawa(1)
(1) Department of Pathology and Experimental Medicine, Okayama University, Japan, (2) Division of Molecular and Cellular Immunology, Medical Institute of Bioregulation, Kyushu University, Japan

GA02.32 PRINCIPAL EFFECT OF DIETARY ANTIMICROBIALS ON THE INFECTION OF PATHOGENIC MICROORGANISM IN WEANING PIGLETS
Yoshihito Suda(1), Y Takahashi(1), N Ojima(1), J Kato(1), J Kobayashi(1), H Aso(2), H Kitazawa(2)
(1) Food, Agricultural and Environmental Sciences, Miyagi University, Japan, (2) Graduate School of Agricultural Sciences, Tohoku University, Japan

GA02.33 (O/P) [WITHDRAWN]

GA02.34 (O/P) THE ROLE OF TLR4 SIGNALING IN PATHOGENESIS OF AUTOIMMUNE DISEASE IN A RETINAL AUTOIMMUNITY MODEL
Shao-Bo Su
State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University, China
GA02.35  RESVERATROL SUPPRESSES OCULAR INFLAMMATION IN ENDOTOXIN-INDUCED UVEITIS  
Shunsuke Kubota, T Kurihara, K Noda, Y Ozawa, S Ishida, K Tsubota  
Department of Ophthalmology, Keio University, Japan  

GA02.36  SIGNIFICANT ELEVATION OF CIRCULATING B7-H3 IN PATIENTS WITH BACTERIAL BLOODSTREAM INFECTIONS  
Xueguang Zhang, G Zhang  
Clinical Immunology Laboratory, The First Affiliated Hospital of Soochow University, China  

GA02.37 (O/P)  ENHANCED SKIN WOUND HEALING IN PDLIM2-DEFICIENT MICE  
Takashi Tanaka(1), T Kaisho(2)  
(1) Inflammatory Regulation, RIKEN Research Institute for Allergy and Immunology, Japan,  
(2) Laboratory for Host Defence, RIKEN Research Institute for Allergy and Immunology, Japan  

GA02.38  RESISTIN UP-REGULATES FRACTALKINE EXPRESSION IN HUMAN ENDOTHELIAL CELLS; LACK OF ADDITIVE EFFECT WITH TNF-α  
Ileana I Manduteanu, E Dragomir, M Calin, M Pirvulescu, AM Gan, D Stan, M Simionescu  
Cell Adhesion and Thrombosis, ICBP”N.Simionescu, Roumaniania  

GA02.39  REGULATION OF CHEMOKINE GENE EXPRESSION BY HYPOXIA VIA COOPERATIVE ACTIVATION OF NF-κB AND HDAC  
Olga Sergeevna Safronova, K Nakahama, I Morita  
Department of Cellular Physiological Chemistry, Tokyo Medical and Dental University, Japan  

GA05.  Inflammatory Mediators, Such As Lipid Mediators, Coagulation, Complements, Cytokines, Chemokines, Free Radicals, and Proteases  

GA05.01  FLUORINE-18-RADIOLABELLED S100A12: A POTENTIAL PROBE FOR FUNCTIONAL CHARACTERIZATION OF INFLAMMATORY PROCESSES IN VIVO  
Susan Hoppmann, S Richter, J Steinbach, J Pietzsch  
Department of Radiopharmaceutical Biology, Institute of Radiopharmacy, Research Center Dresden-Rossendorf, Germany  

GA05.02  HIGH-FAT DIET ENRICHED WITH FISH OR SOYBEAN OIL DO NOT EXACERBATE EXPERIMENTAL ULCERATIVE COLITIS (UC)  
Karina Vieira Barros(1), R AN Xavier(1), CAR Martinez(2), GG Abreu(1), ML Ribeiro(3), A Gambero(3), PO Carvalho(2), VL F Silveira(4)  
(1) Department of Physiology, Federal University of Saõ Paulo, Brazil,  
(2) Multidisciplinary Research Laboratory, University of Saõ Francisco, Brazil,  
(3) Integrative Unit of Farmacology and Gastroenterology, University of Saõ Francisco, Brazil,  
(4) Department of Biological Sciences, Federal University of Saõ Paulo, Brazil  

GA05.03  DEFICIENCY OF CHEMOKINE RECEPTORS CCR1, CCR5 AND CX3CR1 CAUSES DEFECTIVE OSTEOCLAST DIFFERENTIATION AND DEFECTIVE BONE REMODELING  
Akiyoshi Hoshino(1), S Ueda(2), T Imai(3), T Krino(4)K Matsushima(2), K Yamamoto(1)  
(1) International Clinical Research Center, Research Institute, International Medical Center of Japan, Japan, (2) Graduate School of Medicine, the University of Tokyo, Japan, (3) Kan Research Institute, Japan, (4) International Medical Center of Japan, Japan
GA05.04  NON-MYELOID CELLS IN THE PERITONEAL CAVITY ARE THE MAJOR SOURCE OF MONOCYTE CHEMOTACTANT PROTEIN-1 (MCP-1) IN THIOGLYCOLLATE-INDUCED MOUSE PERITONITIS
Teizo Yoshimura(1), C Galligan(1), M Takahashi(1), L Tesslerollo(2)
(1) Lab of Molecular Immunoregulation, National Cancer Institute - Frederick, USA,
(2) Mouse Cancer Genetics Program, National Cancer Institute, USA

GA05.05  OXIDIZED LOW-DENSITY LIPOPROTEIN-INDUCED MATRIX METALLOPROTEINASE-9 EXPRESSION VIA PKC-δ/P42/P44 MAPK/ELK-1 CASCADE IN BRAIN ASTROCYTES
Hui-Hsin Wang(1), H-L Hsieh(2), C-Y Wu(1), C-M Yang(1)
(1) Department of Pharmacology, Chang Gung University, Taiwan, (2) Department of Nursing, Chang Gung Institute of Technology, Taiwan

GA05.06 (O/P)  PGE2-DEPENDENT IMPAIRMENT OF NEUTROPHIL APOPTOSIS DURING INFLAMMATION IN MMP-9 KNOCKOUT MICE
Elzbieta Kolaczkowska(1), B Płytcz(1), B Arnold(2), G Opdenakker(3)
(1) Department of Evolutionary Immunobiology, Jagiellonian University, Poland,
(2) Laboratory for Molecular Immunology, German Cancer Research Center, Heidelberg, Germany, (3) Laboratory of Immunobiology, Rega Institute for Medical Research, University of Leuven, Belgium

GA05.07  EFFECTS OF HYDROGEN SULFIDE ON INFLAMMATION IN CAERULEIN-INDUCED ACUTE PANCREATITIS
Madhav Bhatia, J Sidhapuriwala
Pharmacology, National University of Singapore, Singapore

GA05.08  SUPPRESSION BY IKK-2 INHIBITOR OF LIPOPOLYSACCHARIDE-INDUCED EXPRESSION OF CHEMOKINE AND ADHESION MOLECULE IN CORNEAL FIBROBLASTS
Yukiko Kondo, K Fukuda, T Nishida
Department of Ophthalmology, Yamaguchi University Graduate School of Medicine, Japan

GA05.09 (O/P)  CC CHEMOKINE RECEPTOR 5-DEPENDENT ENDOTHELIAL PROGENITOR CELL HOMING TO SKIN WOUND IN MICE
Yuko Ishida(1), M Inui(2), A Kimura(1), Y Kuninaka(1), K Matsushima(3), N Mukaida(4), T Kondo(1)
(1) Department of Forensic Medicine, Wakayama Medical University, Japan,
(2) Department of Molecular Immunology, Institute of Advanced Medicine, Wakayama Medical University, Japan, (3) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (4) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan

GA05.10  [WITHDRAWN]

GA05.11  ELEVATED SERUM LEPTIN AND ADIPONECTIN LEVELS, BUT NOT RESISTIN LEVEL IN RHEUMATOID ARTHRITIS
Takumi Yoshino(1), N Kusunoki(1), Y Kusunoki(1), S Nishio(1), T Hasunuma(2), S Kawai(1)
(1) Department of Rheumatology, Toho University School of Medicine, Japan,
(2) Department of Research Center for Clinical Pharmacology, Tokyo, Japan

GA05.12 (O/P)  ADMINISTRATION OF IL-33 INDUCES AIRWAY HYPERRESPONSIVENESS AND GOBLET CELL HYPERPLASIA IN THE LUNGS IN THE ABSENCE OF ADOPTIVE IMMUNE SYSTEM
Koubun Yasuda(1), Y Kondo(2), T Yoshimoto(1), J Fujimoto(2), K Nakanishi(1)
(1) Department of Immunology, Hyogo College of Medicine, Japan, (2) Department of Surgery, Hyogo College of Medicine, Japan
GA05.13 (O/P) DEFICIENCY OF PGD2 RECEPTORS, DP AND CRTH2, ENHANCES CONTACT HYPERSENSITIVITY
Yosihiro Yamamoto(1), T Sato(1), S Otani(1), H Hirai(2), S Narumiya(3), H Yokozeki(1), M Nakamura(4)
(1) Department of Dermatology, Tokyo Medical and Dental University, Japan, (2) BML, Inc., Japan, (3) Department of Pharmacology, Faculty of Medicine, Kyoto University, Japan, (4) Human Gene Sciences Center, Tokyo Medical and Dental University, Japan

GA05.14 ADIPONECTIN ENHANCES PROSTAGLANDIN E2 PRODUCTION FROM RHEUMATOID SYNOVIAL FIBROBLASTS
Natsuko Kusunoki(1), K Kitahara(1), T Suguro(2), S Kawai(1)
(1) Division of Rheumatology, Department of Internal Medicine, Toho University School of Medicine, Japan, (2) Department of Orthopaedics, Toho University School of Medicine, Japan

GA05.15 (O/P) PATHOGENIC ROLE OF CXCR7 IN RHEUMATOID ARTHRITIS
Kaori Watanabe(1), T Nanki(1), K Kaneko(1), TJ Schall(2), N Miyasaka(1)
(1) Department of Medicine and Rheumatology, Tokyo Medical and Dental University, Japan, (2) Chemo Centrxy, CA, USA.

GA05.16 ROLES OF THE PROSTAGLANDIN E2-EP2 RECEPTOR PATHWAY IN AN EXPERIMENTAL ABCESS MODEL
Yoshihito Tada(1), T Inada(1), M Kawamura(2), Y Harada(1)
(1) Department of Mediator & Signal Transduction Pharmacology, Kitasato University Graduate School of Medical Sciences, Japan, (2) Department of Molecular Pharmacology, Kitasato University Graduate School of Medical Sciences, Japan

GA05.17 THE RESEARCH STUDY OF THE REASON WHY TRANEXAMIC ACID (T-AMCHA) IS EFFECTIVE AGAINST SKIN PIGMENTATION.
Masashi Isogai(1), M Hirafuji(1), Y Morimoto(2), A Watake(2), N Nakamura(1), T Nagasawa(1), Y Yamaguchi(3)
(1) R&D Division, NANOEGG Research Laboratories, Inc, Japan, (2) Daiichi Sankyo Healthcare Co. LTD, Japan, (3) Institute of Medical Science, St. Marianna University School of Medicine, Japan

GA05.18 (O/P) ADENOVIRUS-MEDIATED ELAFIN EXPRESSION PROTECTS AGAINST DEXTRAN SODIUM SULPHATE (DSS)-INDUCED COLITIS
Nathalie Vergnolle(1), J-P Motta(1), E D’Aldebert(1), L Martin(1), M Chignard(2), J-M Sallenave(2)
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Institut Pasteur, Paris, France

GA05.19 (O/P) PROTEASE-ACTIVATED RECEPTOR-4 (PAR4) ACTIVATION: EVIDENCES FOR ITS ROLE AND ACTIVATION IN THE PATHOGENESIS OF COLITIS AND IN INFLAMMATORY BOWEL DISEASES
Nathalie Vergnolle(1), P Rousset(1), N Cencac(1), D Balz-Hara(1), S Asfaha(2), J Ferraz(3), P Beck(3), B Panaccione(3), J Selves(4), L Alric(4), J-P Vinel(4)
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Division of Gastroenterology, University of Calgary, Canada, (3) Inflammation Research Network, University of Calgary, Canada, (4) Pole Digestif, CHU Purpan, Toulouse, France

GA05.20 LIPOXIN A4 (LXA4) IN INTERSTITIAL PNEUMONITIS OF PATIENTS WITH SYSTEMIC SCLEROSIS AND SCLERODERMA MOUSE MODEL INDUCED BY BLEOMYCIN
Hirahito Endo(1), A Hashimoto(1), S Hirohata(1), H Kitasato(2), S Kawai(3)
(1) Department of Rheumatology, Kitasato University School of Medicine, Japan, (2) Department of Microbiology, Kitasato University School of Allied Health Sciences, Japan, (3) Department of Rheumatology, Toho University School of Medicine, Japan
GA05.21 ANTIMICROBIAL CATHELICIDIN PEPTIDE CAP11 SUPPRESSES THE PRODUCTION AND RELEASE OF SEPTIC MEDIATORS IN A D-GALACTOSAMINE-SENSITIZED ENDOTOXIN SHOCK MODEL
Taisuke Murakami(1), H Tamura(2), I Nagaoka(1)
(1) Department of Host Defense and Biochemical Research, Juntendo University, Japan,
(2) Seikagaku Biobusiness Corporation, Japan

GA05.22 PROSTAGLANDIN E2-EP4 SIGNALING PROMOTES IMMUNE INFLAMMATION THROUGH TH1 CELL DIFFERENTIATION AND TH17 CELL EXPANSION
Daiji Sakata(1), C Yao(1), Y Esaki(1), Y Li(1), T Matsuoka(1), K Kuroiwa(2),
Y Sugimoto(2), S Narumiya(1)
(1) Department of Pharmacology, Kyoto University, Japan, (2) Department of Physiological Chemistry, Kyoto University, Japan

GA05.23 IDENTIFICATION OF STRUCTURAL DETERMINANTS OF MIF FUNCTIONS IN CXCR2-MEDIATED LEUKOCYTE RECRUITMENT
Sandra Kraemer(1), M Drechsler(2), H Lue(1), R Koenen(2), A Kapurniotu(3),
A Zernecke(2), C Weber(2), J Bernhagen(1)
(1) Department of Biochemistry and Molecular Cell Biology, RWTH Aachen University, Federal Republic of Germany, (2) Institute for Molecular Cardiovascular Research (IMCAR), RWTH Aachen University, Federal Republic of Germany, (3) Center of Integrated Protein Science Munich, Technical University of Munich, Federal Republic of Germany

GA05.24 (O/P) GROUP III PHOSPHOLIPASE A2, AN ENDOGENOUS BEE VENOM PHOSPHOLIPASE A2 HOMOLOG, IS A REGULATOR OF MAST CELL MATURATION AND FUNCTIONS
Yoshitaka Taketomi(1), H Sato(1), S Tanaka(2), H Otsuka(3), K Yamamoto(1),
M Nakamura(3), Y Sugimoto(4), I Kudo(5), S Hara(5), M Murakami(1)
(1) Biomembrane Signaling Project, Tokyo Metropolitan Institute of Medical Science, Japan, (2) Department of Immunobiology, School of Pharmaceutical Sciences, Mukogawa Women's University, Japan, (3) Department of Oral Anatomy and Developmental Biology, School of Dentistry, Showa University, Japan, (4) Department of Physiological Chemistry, Faculty of Pharmaceutical Sciences, Kyoto University, Japan, (5) Department of Health Chemistry, School of Pharmacy, Showa University, Japan

GA05.25 OXIDIZED LDL ACTIVATES INOS GENE EXPRESSION THROUGH P38 MAPK IN MICROGLIAL BV-2 CELLS
George Hsiao, J-R Sheu, Y-C Chou, F-L Lin, C-W Cheng
Department of Pharmacology, Taipei Medical University, Taiwan

GA05.26 LIPIDOMIC ANALYSIS OF ANTI-INFLAMMATORY LIPID MEDIATORS IN FAT-1 TRANSGENIC MICE RICH IN OMEGA-3 POLYUNSATURATED FATTY ACIDS
Yosuke Isobe(1), M Arita(1), H Nakanishi(2), R Taguchi(2), H Arai(1)
(1) Graduate School of Pharmaceutical Sciences, University of Tokyo, Japan, (2) Graduate School of Medicine, University of Tokyo, Japan

GA05.27 SNAKE VENOM METALLOPROTEINASES (SVMP) INDUCES EXPRESSION OF INFLAMMATORY MEDIATORS FROM HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS (HUVEC)
Patricia Bianca Clissa(1), DS Lopes(1), JW Fox(2), AM Moura-da-Silva(1)
(1) Laboratory of Immunopathology, Butantan Institute, Brazil, (2) Department of Microbiology, University of Virginia, Virginia, USA
GA05.28 UPREGULATED MIF PRODUCTION IN RA-FLS VIA P38-MAPK SIGNAL
Mi-Kyung Park(1), Y-M Her(1), M-L Cho(1), H-R Kim(2), J-H Ju(1), S-H Lee(2), H-Y Kim(1), S-H Park(1)
(1) Rheumatoid Arthritis, Catholic University, Korea, (2) Konkuk University, Korea

GA05.29 DIFFERENTIAL SUMOYLATION OF LXR-ALPHA AND LXR-BETA MEDIATES TRANSREPRESSION OF STAT1 INFLAMMATORY SIGNALING IN IFN-GAMMA-STIMULATED BRAIN ASTROCYTES
Jee Hoon Lee, SM Park, OS Kim, CS Lee, JH Woo, SJ Park, E-H Joe, I Jou
Department of Pharmacology, Ajou University, School of Medicine, Korea

GA05.30 THE CRUCIAL ROLE OF AMYLOID β ON COMPLEMENT ALTERNATIVE PATHWAY ACTIVATION: IMPLICATION FOR PATHOGENESIS OF AGE-RELATED MACULAR DEGENERATION
Jiying Wang(1), K Ohno-Matsui(1), T Yoshida(1), N Shimada(1), S Ichinose(2), T Sato(3), M Mochizuki(1), I Morita(4)
(1) Department of Ophthalmology and Visual Science, Tokyo Medical and Dental University, Japan, (2) Instrumental Analysis Research Center, Tokyo Medical and Dental University, Japan, (3) Department of Anatomy, School of Dental Medicine, Tsurumi University, Japan, (4) Section of Cellular Physiological Chemistry, Tokyo Medical and Dental University, Japan

GA05.31 HYDROGEN PEROXIDE INDUCES STAT-6 ACTIVATION AND COX-2 INDUCTION IN BRAIN ASTROCYTES
Soo Jung Park(1), Y-H Choi(2), I Jou(1)
(1) Department of Pharmacology, Ajou University School of Medicine, Korea, (2) Department of Physiology, College of Medicine, Ewha Womans University, Korea

GA05.32 ELEVATED TEAR FLUID LEVELS OF IL-8 AND MIP-1ALPHA IN PATIENTS WITH CYSTIC FIBROSIS
Malgorzata Mrugacz(1), B Zelazowska-Rutkowska(2), A Bakunowicz-Lazarczyk(1), M Kaczmarcki(3), J Wysocka(2)
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GA06. Receptors, Signaling Molecules, Nuclear Factors, Protein Kinases/Phosphatases, Enzymes, System Biology

GA06.01 (O/P) SIGNAL ADAPTOR DAP10 ASSOCIATES WITH MDL-1 AND TRIGGERS OSTEOCLASTGENESIS IN COOPERATION WITH DAP12
Shion Fujimura(1), M Inui(1), Y Kikuchi(1), N Aoki(2), S Endo(1), T Maeda(1), A Sugahara-Tobina(1), A Nakamura(1), A Kumanogoh(3), M Colonna(4), T Takai(1)
(1) Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, Japan, (2) Department of Pathology, Asahikawa Medical College, Japan, (3) Department of Immunopathology, Research Institute for Microbial Diseases, Osaka University, Japan, (4) Department of Pathology and Immunology, Washington University School of Medicine, USA

GA06.02 PROSTACYCLIN-DEPENDENT REGULATION OF CD41 EXPRESSION BY HUMAN ERYTHROLEUKEMIA (HEL) CELLS
Helen Wise(1), K-H Lai(1), A Lau(1), F Tsang(2), Y-H Wong(3)
(1) Department of Pharmacology, The Chinese University of Hong Kong, Hong Kong SAR, China, (2) Department of Biochemistry, The Chinese University of Hong Kong, Hong Kong SAR, China, (3) Department of Biochemistry, The Hong Kong University of Science and Technology, Hong Kong SAR, China
GA06.03 FUNCTIONAL COUPLING EXPRESSION OF COX-2 AND CPLA2 INDUCED BY ATP IN RAT VASCULAR SMOOTH MUSCLE CELLS  
Wei Ning Lin, WH Tung, HH Wang, CM Yang  
Pharmacology, Chang Gung University, Taiwan

GA06.04 (O/P) FAS MEDIATED CASPASE-INDEPENDENT CELL DEATH AND INFLAMMATORY RESPONSES  
Wan-Wan Lin(1), T-Y Chen(1), J-S Wang(1), C-L Chien(2)  
(1) Department of Pharmacology, National Taiwan University, Taiwan, (2) Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University, Taipei, Taiwan

GA06.05 INTERACTIONS BETWEEN NEURONAL AND NON-NEURONAL CELLS IN RAT DORSAL ROOT GANGLION CELL CULTURES: EFFECTS ON IP AND EP4 RECEPTOR-DEPENDENT SIGNALING  
Helen Wise(1), KY Ng(1), Y-H Wong(2)  
(1) Department of Pharmacology, The Chinese University of Hong Kong, Hong Kong, China, (2) Department of Biochemistry, The Hong Kong University of Science and Technology, Hong Kong SAR, China

GA06.06 REGULATION OF TREM-1 EXPRESSION IN MACROPHAGES BY LPS STIMULATION  
Hiroshi Hosoda(1), H Tamura(2), S Kida(3), I Nagaoka(1)  
(1) Department of Host Defense and Biochemical Research, Juntendo University, School of Medicine, Japan, (2) Seikagaku Biobusiness Co., Ltd., Japan, (3) Department of Bioscience, Faculty of Applied Bioscience, Tokyo University of Agriculture, Japan

GA06.07 MODULATION OF NOTCH PROCESSING BY γ-SECRETASE REDUCED DIET-INDUCED ATHEROSCLEROSIS IN APOLIPOPROTEIN E-DEFICIENT MICE  
Kyosuke Takeshita, T Aoyama, R Kikuchi, T Murohara  
Department of Cardiology, Nagoya University Graduate School of Medicine, Japan

GA06.08 THROMBIN RECEPTOR: AN ENDOGENOUS INHIBITOR OF INFLAMMATORY PAIN, ACTIVATING OPIOID PATHWAYS  
Nathalie Vergnolle(1), L Martin(1), C Auge(1), K Chapman(2), P Andrade-Gordon(3), N Cenac(1), G Dietrich(1)  
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Pharmacology and Therapeutics, University of Calgary, Canada, (3) RW Johnson Pharmaceutical, Spring House, PA, USA

GA06.09 ACTIVATION OF TRPV4 AND PAR2 INDUCES INFLAMMATION IN THE RAT TEMPOROMANDIBULAR JOINT  
Nathalie Vergnolle(1), A Denadai-Souza(1), M Muscara(2), N Cenac(1)  
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Department of Pharmacology, Institute of Biomedical Sciences, University of Saõ Paulo, Brazil

GA06.10 HISTAMINE AND SEROTONIN SENSITIZE TRANSIENT RECEPTOR POTENTIAL VANILLOID RECEPTOR 4 (TRPV4) IN SENSORY NEURONS: IMPLICATIONS FOR NEUROINFLAMMATION AND PAIN  
Nathalie Vergnolle, N Cenac, J-P Motta, S Galeano  
Immunology and Infectious Diseases, INSERM U563, France
GA06.11  GLYCOGEN SYNTHASE KINASE-3β FACILITATES IFN-γ-INDUCED STAT1 ACTIVATION BY REGULATING SRC HOMOLOGY-2 DOMAIN-CONTAINING PHOSPHATASE 2  
(1) Institute of Clinical Medicine, National Cheng Kung University, Taiwan, (2) Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan, (3) Department of Microbiology and Immunology, National Cheng Kung University, Taiwan, (4) Department of Microbiology and Immunology, Dalhousie University, Canada, (5) Department of Nursing, Chung Hwa University of Medical Technology, Taiwan

GA06.12  THE ROLES OF IL-18 EXPRESSED IN NORMAL HUMAN KERATINOCYTES  
Shin-ichiro Kashiwamura(1), Y Hosotani(2), H Okamura(1)  
(1) Laboratory of Host Defenses, Institute for Advanced Medical Sciences, Hyogo College of Medicine, Japan, (2) Department of Orthopedics, Hyogo College of Medicine, Japan

GA06.13  MECHANICAL STRESS ENHANCES THE PRODUCTION OF INFLAMMATORY MEDIATORS FROM GINGIVAL EPITHELIAL CELLS  
Akihiro Toshinaga(1), C Masaki(2), R Hosokawa(2), T Nishihara(1)  
(1) Division of Infections and Molecular Biology, Department of Health Promotion, Kyushu Dental College, Japan, (2) Department of Oral Reconstruction and Rehabilitation, Kyushu Dental College, Japan

GA06.14  PHAGOCYTOSIS AND LYSOZYME-BASED DIGESTION OF S. AUREUS PEPTIDOGLYCAN IS REQUIRED FOR ACTIVATION OF THE NALP3 INFLAMMASOME IN MOUSE MACROPHAGES  
Takahiro Shimada(1), B Park(2), HS Goodridge(3), AJ Wolf(3), C Becker(3), C Reyes(3), EA Miao(4), A Adere(4), F Gotz(5), GY Liu(2), DM Underhill(3)  
(1) Department of Hematology, Kinki University School of Medicine, Japan, (2) Division of Pediatric Infectious Diseases, Cedars-Sinai Medical Center, Los Angeles, USA, (3) Immunobiology Research Institute, Cedars-Sinai Medical Center, Los Angeles, USA, (4) Institute for Systems Biology, Seattle, USA, (5) Microbial Genetics Department, University of Tubingen, Tubingen, Germany

GA06.15  QUANTITATIVE ANALYSIS OF PROMOTER ACTIVITY BY GREEN FLUORESCENT PROTEIN (GFP) TARGET/REPORTER STRATEGY IN A NOVEL TRANSGENIC ALX/FPR-RS2 NULL MOUSE  
Neil Peter Dufton, R Hannon, M Perretti, R Flower  
William Harvey Research Institute, Queen Mary University of London, UK

GA06.16  EPIDERMAL GROWTH FACTOR-ACTIVATED ARNT/HIF-1 β SIGNAL PATHWAY UP-REGULATES CYCOXGENASE-2 GENE EXPRESSION ASSOCIATED WITH SQUAMOUS CELL CARCINOMA  
Ben-Kuen Chen(1), K-Y Chang(2), M-R Shen(3), M-Y Lee(3), W-L Wang(3), W-C Su(4), W-C Chang(3)  
(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng Kung University, Taiwan, (2) National Institute of Cancer Research, National Health Research Institutes, Taiwan, (3) Department of Pharmacology, National Cheng Kung University, Taiwan, (4) Department of Internal Medicine, National Cheng Kung University, Taiwan

GA06.17 (O/P)  [WITHDRAWN]

GA06.18 (O/P)  IFN-GAMMA PLAYS A PROTECTIVE ROLE IN CISPLATIN-INDUCED RENAL INJURY THROUGH REGULATION OF AUTOPHAGY  
Akihiko Kimura(1), Y Ishida(1), N Mukaida(2), T Kondo(1)  
(1) Department of Forensic Medicine, Wakayama Medical University, Japan, (2) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan
**GA06.19 (O/P)** FC RECEPTOR γ-CHAIN IS A SUBUNIT OF THE IL-3 RECEPTOR, REQUIRED FOR IL-4 PRODUCTION BY MURINE BASOPHILS
Shigeaki Hida(1), Y Sakamoto(1), S Yamasaki(2), T Saito(2), S Taki(1)
(1) Department of Immunology and Infectious Diseases, Shinsyu University Graduate School of Medicine, Japan, (2) Laboratory for Cell Signaling, RIKEN Research Center for Allergy and Immunology, Japan

**GA06.20 (O/P)** CCR2/5 ASSOCIATED FROUNT CONTROLS DIRECTIONALITY OF CELL MIGRATION
Etsuko Toda(1), Y Terashima(2), H Terasawa(3), S Kanegasaki(4), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, University of Tokyo, Japan, (2) Department of Molecular Preventive Medicine Graduate School of Medicine, University of Tokyo Japan and Central Lab, ECI, Inc., Tokyo, Japan, (3) Department of Structure-Function Physical Chemistry, Faculty of Medical and Pharmaceutical Sciences, Kumamoto University, Kumamoto, Japan, (4) Central Lab, ECI, Inc., Tokyo, Japan

**GA06.21 (O/P)** CPAP IS A COMPONENT OF NF-κB/P65 COMPLEX AND INVOLVED IN THE TNFα-INDUCED NF-κB MEDIATED GENE ACTIVATION
Shu-Ting Yang(1), L-Y Hung(2)
(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Taiwan, (2) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan

**GA06.22** MECHANICAL STRETCH INDUCES THE MRNA EXPRESSION OF INFLAMMATORY CYTOKINES IN SYNOVIAL CELLS
Masanobu Takao(1), A Toshinaga(1), T Tsujiisawa(1), K Iwanaga(2), M Habu(2), I Yoshioka(2), K Tominaga(2), N Tatsuji(1)
(1) Department of Health Promotion, Division of Infection and Molecular Biology, Kyusyu Dental College, Japan, (2) Department of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Science, Kyusyu Dental College, Japan

**GA06.23** YM-254890, A GαQ/11 INHIBITOR, SUPPRESSED AIRWAY RESPONSES IN RODENT MODELS
Susumu Tsujimoto(1), S Kubo(1), M Taniguchi(2), J Takasaki(3), Y Hirayama(1), Y Shimizu(1)

**GA06.24** REGULATION OF IRAK-1 ACTIVATION BY ITS C-TERMINAL DOMAIN
Thao K Nguyen, JA Hamilton, GM Schols
Department of Medicine, Arthritis and Inflammation Research Centre, The University of Melbourne, Royal Melbourne Hospital, Parkville, Victoria, Australia

**GA07. Inflammatory Diseases (1)**

**GA07.01** ARTERIAL FUNCTION ALTERS BEFORE APPEARANCE OF ATHEROSCLEROSIS
Hideo Honda(1), H Matsuda(2), H Moroe(2), M Kondo(2)
(1) Center for Experimental Pharmacy, Tokyo University of Pharmacy and Life Science, Japan, (2) Second Department of Physiology, Showa University, Japan

**GA07.02** [WITHDRAWN]
GA07.03  
**ANTI-OBESETY EFFECTS OF YERBA MATE EXTRACT (ILEX PARAGUARIENSIS) IN HIGH-FAT DIET-INDUCED OBESE MICE**  
Marcelo L Ribeiro, D Arcari, W Barchevsky, T dos Santos, K de Oliveira, J Pedrazzoli Jr., M de Souza, M Saad, D Bastos, A Gambero, P Carvalho  
UNIFAG, USF, Federative, Brazil

GA07.04  
**FISH OIL-RICH DIET INCREASES THE ANTIINFLAMMATORY CYTOKINE IL-10, REDUCES COLONIC INFLAMMATION AND DNA-DAMAGE IN EXPERIMENTAL ULCERATIVE COLITIS (UC)**  
Karina Vieira Barros(1), RAN Xavier(1), CAR Martinez(2), GG Abreu(1), ML Ribeiro(3), A Gambero(3), PO Carvalho(2), VLF Silveira(4)  
(1) Department of Physiology, Federal University of Sao Paulo, Brazil, (2) Multidisciplinary Research Laboratory, University of Sao Francisco, Brazil, (3) Integrative Unit of Farmacology and Gastroenterology, University of Sao Francisco, Brazil, (4) Department of Biological Sciences, Federal University of Sao Paulo, Brazil

GA07.05 (O/P)  
**MOUSE FOLLISTATIN-RELATED PROTEIN (FRP/FSTL1) EXACERBATES THE INFLAMMATORY PROCESS OF ARTHRITIS, BUT HUMAN COUNTERPART GIVES AN OPPOSITE EFFECT**  
Kosaku Murakami(1), M Takana(2), T Usui(1), S Kobayashi(3), D Kawabata(1), T Nojima(1), K Omura(1), T Fujii(1), T Mimori(1)  
(1) Department of Rheumatology and Clinical Immunology, Kyoto University, Japan, (2) National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institute of Health, Japan, (3) Centor for Innovation in Immunoregulative Technology and Therapeutics, Kyoto University, Japan

GA07.06 (O/P)  
**THE ROLE OF CHEMOKINE RECEPTORS, CCR2 AND CX3CR1, IN ARTHRITIS IN IL-1 RECEPTOR ANTAGONIST-DEFICIENT MICE**  
Hiroshi Fujii(1), T Baba(2), R Hamano(1), M Kawano(1), M Yamagishi(3), N Mukaida(2)  
(1) Division of Rheumatology, Department of Internal Medicine, Kanazawa University Graduate School of Medicine, Japan, (2) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan, (3) Division of Cardiology, Department of Internal Medicine, Kanazawa University Graduate School of Medicine, Japan

GA07.07  
**ROLE OF CELL SURFACE H⁺-ATP SYNTHASE ON ADIPOCYTE DIFFERENTIATION**  
Toshiyuki Kita, H Nishida, N Arakaki, H Shibata, T Higuchi  
Department of Molecular Cell Biology and Medicine, Tokushima University, Japan

GA07.08  
**MITOCHONDRIAL FUSION AND FISSION PROCESSES PLAY A ROLE IN LIPID METABOLISM IN ADIPOCYTES**  
Hana Nishida, T Kita, N Arakaki, H Shibata, T Higuchi  
Department of Molecular Cell Biology and Medicine, Tokushima University, Japan

GA07.09 (O/P)  
**INFLAMMATORY RESPONSE TO CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS IN CHILDREN**  
Jaroslaw Pasnik(1), A Cywinska-Bernas(1), K Zeman(1), JA Moll(2), A Sysa(2), J Moll(3)  
(1) Department of Pediatrics, Prevention Cardiology and Clinical Immunology, Medical University, Poland, (2) Department of Pediatric Cardiology, Polish Mother's Health Hospital, Lodz, Poland, (3) Department of Pediatric Cardiosurgery, Polish Mother's Health Hospital, Lodz, Poland
GA07.10 PROTEOLYTIC AND CYTOKINES BALANCE ABNORMALITIES IN CHILDREN WITH CONGENITAL HEART DISEASE UNDERGOING CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS
Jaroslaw Pasnik(1), A Cywinska-Bernas(1), J Moll(2), JA Moll(3), A Sysa(3), K Zeman(1)
(1) Department of Pediatrics, Prevention Cardiology and Clinical Immunology, Medical University, Poland, (2) Department of Pediatric Cardiosurgery, Institute of Polish Mother’s Health Hospital, Lodz, Poland, (3) Department of Pediatric Cardiology, Institute of Polish Mother’s Health Hospital, Lodz, Poland

GA07.11 (O/P) THROMBIN STIMULATES C-SRC/PKC-MEDIATED EGF RECEPTOR EXPRESSION AND CELL PROLIFERATION THROUGH EGF RECEPTOR AUTOREGULATION IN VASCULAR SMOOTH MUSCLE CELLS
Hsi-Lung Hsieh(1), C-M Yang(2)
(1) Department of Nursing, Chang Gung Institute of Technology, Taiwan, (2) Department of Pharmacology, Chang Gung University, Taiwan

GA07.12 THE ROLE OF NOX-2-DERIVED REACTIVE OXYGEN SPECIES IN TOluene DIsoCyanate-INDUCED LUNG INFLAMMATION
Si-Yen Liu(1), C-C Shieh(2)
(1) Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan, (2) Department of Pediatrics, National Cheng Kung University, Taiwan

GA07.13 (O/P) EP3 RECEPTORS AS DOWNSTREAM EFFECTORS OF MPGES-1 NEUROTOXICITY IN STROKE INJURY
Yuri Ikeda-Matsu(1), H Tanji(1), A Ota(1), S Uematsu(2), S Akira(2), S Narumiya(3), Y Sasaki(1)
(1) Laboratory of Pharmacology, School of Pharmaceutical Science, Kitasato University, Japan, (2) Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Japan, (3) Department of Pharmacology, Kyoto University Faculty of Medicine, Japan

GA07.14 IL-33 INDUCES HUMAN BASOPHIL AND EOSINOPHIL ACTIVATION VIA ST2
Maho Suzukawa(1), M Ikura(2), M Yamaguchi(3), R Koketsu(3), A Komiya(3), H Nagase(1), S Nakae(4), K Matsumoto(4), H Saito(4), K Matsushima(5), K Yamamoto(3), K Ohta(1)
(1) Department of Respiratory Medicine, Teikyo University School of Medicine, Japan, (2) Department of Respiratory Medicine, International Medical Center of Japan, Japan, (3) Department of Allergy and Rheumatology, University of Tokyo, Japan, (4) Department of Allergy and Immunology, National Research Institute for Child Health & Development, Japan, (5) Department of Molecular Preventive Medicine, University of Tokyo, Japan

GA07.15 ANALYSIS OF KIDNEY CD4+ T CELLS IN LUPUS-PRONE MICE
Akiko Okamoto(1), F Keishi(1), NH Tsuno(2), K Takahashi(2), K Yamamoto(1)
(1) Department of Allergy and Rheumatology, University of Tokyo, Japan, (2) Division of Transfusion Medicine, University of Tokyo, Japan

GA07.16 FRACTALKINE AND ITS RECEPTOR, CX3CR1, PROMOTE HYPERTENSIVE INTERSTITIAL FIBROSIS IN KIDNEY
Kazuaki Shimizu(1), K Furuichi(1), N Saka(1), K Kitagawa(1), S Kaneko(1), T Wada(2)
(1) Department of Disease Control and Homeostasis, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan, (2) Department of Laboratory Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Japan

GA07.17 INFLUENCE OF TOCILIZUMAB TO INTERSTITIAL PNEUMONIA (IP) COMPLICATING RHEUMATOID ARTHRITIS PATIENTS
Department of Rheumatology and Clinical Immunology, Saitama Medical University, Japan
GA07.18 (O/P) COMBINED TREATMENT WITH ORAL THEOPHYLLINE AND INHALED CORTICOSTEROID IMPROVES LUNG FUNCTION AND REDUCED AIRWAY INFLAMMATION IN COPD PATIENTS
Ian M Adcock, AL Durham, REK Russell, PJ Barnes, PA Ford
Airways Disease Section, National Heart & Lung Institute, Imperial College London, UK

GA07.19 (O/P) BINDARIT DECREASES MONOCYTE CHEMOATTRACTANT PROTEIN-1 URINARY EXCRETION IN HUMANS. A PILOT STUDY IN ACTIVE LUPUS NEPHRITIS PATIENTS.
Angelo Guglielmotti(1), G Orticelli(2), G Di Loreto(2), D Paolo(2)
(1) Department of Pharmacology, Angelini Research Center, Santa Palomba-Pomezia, Rome, Italy, (2) Headquarters Medical Department, Angelini Research Center, Santa Palomba-Pomezia, Rome, Italy

GA07.20 INVOLVEMENT OF FIBROCYTES IN DIABETIC KIDNEY INJURY IN STREPTOZOTOCIN-TREATED MICE
Akinori Hara(1), N Sakai(1), K Kitagawa(1), K Furuichi(1), S Kaneko(1), T Wada(2)
(1) Department of Disease Control and Homeostasis, Kanazawa University, Japan, (2) Department of Laboratory Medicine, Kanazawa University, Japan

GA07.21 (O/P) INVOLVEMENT OF KININS AND TACHYKININS ON THE DEVELOPMENT OF NASAL HYPERRESPONSIVENESS IN A POLLEN-INDUCED ALLERGIC RHINITIS MODEL
Takeshi Nabe, M Fujii, S Kohno
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GA07.22 (O/P) “BONE MARROW GVHD”: EARLY DESTRUCTION OF BONE MARROW HEMATOPOIETIC NICHES MEDIATED BY DONOR CD4+ T CELLS
Yusuke Shono(1), S Ueha(1), J Abe(1), M Kurachi(1), M Imamura(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, School of Medicine, The University of Tokyo, Japan, (2) Department of Hematology and Oncology, Hokkaido University, Graduate School of Medicine, Sapporo, Japan

GA07.23 (O/P) THE ROLES OF JAK2 AND STAT3 IN THROMBIN-INDUCED CONNECTIVE TISSUE GROWTH FACTOR EXPRESSION IN HUMAN LUNG FIBROBLASTS
Chung-Chi Yu(1), H-C Pai(1), B-C Chen(2), C-H Lin(1)
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GA07.24 (O/P) THE ROLE OF DCIR IN THE INFLAMMATORY DISEASES
Noriyuki Fujikado(1), K Shimamori(1), A Ishii(1), S Sugai(1), H Manaka(1), S Saijo(1), H Kotaki(1), K Sudo(1), M Nose(2), Y Iwakura(1)
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GA07.25 (O/P) THROMBIN-INDUCED CONNECTIVE TISSUE GROWTH FACTOR EXPRESSION IN HUMAN LUNG FIBROBLASTS REQUIRES THE ASK1/JNK/AP-1 PATHWAY
Chien-Huang Lin(1), C-C Yu(1), M-J Hsu(1), M-L Kuo(2), RF-C Chen(3), M-C Chen(1), B-C Chen(4)
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GA07.26  EFFECTS OF TACROLIMUS ON EXPRESSION OF CHEMOKINES IN RHEUMATOID SYNOVIAL FIBROBLASTS SCREENED BY A DNA MICROARRAY
Kanako Kitahara(1), N Kusunoki(1), T Kakiuchi(2), T Suguro(3), S Kawai(1)
(1) Division of Rheumatology, Department of Internal Medicine, Toho University School of Medicine, Japan, (2) Department of Immunology, Toho University School of Medicine, Japan, (3) Department of Orthopedics, Toho University School of Medicine, Japan

GA07.27  INHIBITION OF PI3KDELTA RESTORES GLUCOCORTICOID FUNCTION IN SMOKING-INDUCED AIRWAY INFLAMMATION IN MICE
Ian M Adcock, JA Marwick, CC Stevenson, PJ Barnes, K Ito, PA Kirkham
Airways Disease Section, National Heart & Lung Institute, Imperial College London, UK

GA07.28  DEFICIENCIES OF LINOLEIC ACID AND ITS METABOLITES ARE INVOLVED IN THE DEVELOPMENT OF ATOPIC DERMATITIS-LIKE SYMPTOMS IN MICE
Masanori Fujii, H Nakashima, T Nabe, S Kohno
Department of Pharmacology, Kyoto Pharmaceutical University, Japan

GA07.29  EFFECT OF AMINO MONOSACCHARIDES (GLUCOSAMINE-DERIVATIVES) AND URONIC ACIDS ON THE PRODUCTION OF GLYCOSAMINOGLYCANS BY HUMAN SYNOVIAL CELLS AND CHONDROCYTES
Mamoru Igarashi(1), I Kaga(2), J Hua(1), Y Takamori(2), K Sakamoto(2), K Miyazawa(3), I Nagaoka(1)
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GA07.30  INFLAMMATION AND ATHEROSCLEROSIS
Yutaka Kawahito(1), M Hamaguchi(1), T Seno(1), A Yamamoto(1), M Kohno(1), Y Tsuichu(1), M Kadoya(1), H Ishino(1), S Kimura(2), E Ashihara(2), T Maekawa(2)
(1) Inflammation and Immunology, Kyoto Prefectural University of Medicine, Japan, (2) Department of Transfusion Medicine and Cell Therapy, Kyoto University Hospital, Japan

GA07.31  PIR-B-MEDIATED NEGATIVE REGULATION OF TLR9 REDUCES RHEUMATOID FACTOR PRODUCTION OF B-1 CELLS AND PREVENTS AUTOIMMUNITY
Yuki Uchida(1), T Kubo(1), Y Watanabe(1), M Abe(1), A Nakamura(1), M Ono(2), S Akira(3), T Takai(1)
(1) Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, CREST, JST, Japan, (2) Department of Pathology, Tohoku University Graduate School of Medicine, Japan, (3) Laboratory of Host Defense, World Premiere International Immunology Frontier Research Center, Osaka University, Japan

GA07.32  [WITHDRAWN]

GA07.33 (O/P)  PROTECTIVE ROLE OF CX3CR1-MEDIATED SIGNAL PATHWAY IN CLOSTRIDIUM DIFFICILE TOXIN A-INDUCED ENTERITIS
Masanori Inui(1), Y Ishida(2), A Kimura(2), N Mukaida(3), T Kondo(2)
(1) Department of Molecular Immunology, Institute of Advanced Medicine, Wakayama Medical University, Japan, (2) Department of Forensic Medicine, Wakayama Medical University, Japan, (3) Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan
GA07.34  EFFECT OF DEP EXPOSURE ON MITE-INDUCED AIRWAY INFLAMMATION OF MURINE MODEL
Yukiko Matsuo(1), M Kawakami(1), H Takizawa(2), T Nagase(3), I Sugawara(4), N Yamashita(1)
(1) Department of Pharmacotherapy, Research Institute of Science Musashino University, Japan, (2) Fourth Department of Internal Medicine, Teikyo University, School of Medicine, Japan, (3) Department of Respiratory Medicine, University of Tokyo, School of Medicine, Japan, (4) Mycobacterial Reference Center, The Research Institute of Tuberculosis, Japan

GA07.35  E4 PROMOTER BINDING PROTEIN 4 (E4BP4) /NFIL-3 REGULATES SELECTIVE IL-13 EXPRESSION IN CHRONIC TH1 IMMUNE RESPONSES
Yasutaka Motomura(1), H Kitamura(2), A Hijikata(2), S Tanaka(1), A Moriwaki(3), K Matsumoto(3), H Inoue(3), M Kubo(1)
(1) Laboratory for Signal Network, RIKEN Research Center for Allergy and Immunology, Japan, (2) Laboratory for Immunogenomics RIKEN Research Center for Allergy and Immunology, Japan, (3) Research Institute for Diseases of the Chest, Graduate School of Medical Sciences, Kyushu University, Japan

GA07.36  THE DIAGNOSTIC SIGNIFICANCE OF INTERLEUKIN-18 IN PATIENTS WITH SYSTEMIC JUVENILE IDIOPATHIC ARTHRITIS PREDISPOSING TO MACROPHAGE ACTIVATION SYNDROME
Masaki Shimizu(1), T Yokoyama(1), H Kaneda(2), T Wada(1), T Toma(1), K Ohta(3), Y Kasahara(4), A Yachie(1)
(1) Department of Pediatrics, Kanazawa University, Japan, (2) Department of Pediatrics, Toyama City Hospital, Japan, (3) Department of Pediatrics, Kanazawa Medical Center, Japan, (4) Department of Laboratory and Nursing, Kanazawa University, Japan

GA07.37  TRANSIENT RECEPTOR POTENTIAL VANILLOID 4 (TRPV4) ACTIVATION INDUCES INFLAMMATION AND SIGNALS TO INTESTINAL EPITHELIAL CELLS
Nathalie Vergnolle(1), E D'Aldebert(1), N Cenac(1), D Balz-Hara(1), T Lapointe(2), C Ohland(2), A Buret(2), W MacNaughton(2), J Selves(3)
(1) Immunology and Infectious Diseases, INSERM U563, France, (2) Inflammation Research Network, University of Calgary, Canada, (3) Pole Digestif CHU Purpan, Toulouse, France

GA10.  Drug Discovery: Molecular Targets, Drug Screening, Drug Design, Informatics, Molecular Library, Genetics and Genomics, Devices

GA10.6  INFLUENCE OF ANTIBODIES AGAINST INFlixIMAB AND ETANERCEPT ON THE EFFECTIVENESS OF THESE AGENTS IN PATIENTS WITH RHEUMATOID ARTHRITIS
Motoaki Hoshino, T Yoshio, S Onishi, S Minota
Rheumatology and Clinical Immunology, Jichi Medical University, Japan

GA09.  Cancer and Inflammation, Angiogenesis

GA09.12  ADIPOSE DEPOT REGULATES CHEMOKINE EXPRESSION IN MDA-MB-231 CELLS
Young Yang, Y-A Choi, P Yun Sun
Department of Life Science, Sookmyung Women's University, Korea
GA16. Others

**GA16.4 (O/P) TNF RECEPTOR-ASSOCIATED PERIODIC SYNDROME (TRAPS) IN JAPAN**
Hiroaki Ida(1), K Arima(1), A Kawakami(1), K Migita(2), K Eguchi(1)

(1) First Department of Internal Medicine, Graduate School of Biomedical Sciences, Nagasaki University, Japan, (2) Clinical Research Center, NHO Nagasaki Medical Center, Japan

**GA16.6 (O/P) THE FUNCTIONAL ROLE OF THE BRAIN FINGER PROTEIN, ZNF179 IN NEURONAL DIFFERENTIATION**

(1) Institute of Biosignal Transduction, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan, (2) School of Medicine and Health Sciences, Foo-Yin University, Kaohsiung, Taiwan, (3) Institute of Bioinformatics, College of Bioscience and Biotechnology, National Cheng-Kung University, Tainan, Taiwan, (4) Department of Pharmacology, College of Medicine, National Cheng-Kung University, Tainan, Taiwan, (5) Department of Pharmacology, College of Medicine, Center for Gene Regulation and Signal Transduction Research, National Cheng-Kung University, Tainan, Taiwan
**Poster Discussion with Wine and Cheese**

Discussion Leader: Teizo Yoshimura (Laboratory of Immunoregulation, Cancer and Inflammation Program, Center for Cancer Research, National Cancer Institute at Frederick, USA)

**GA03. Lymphocytes, Macrophages, Neutrophils, Other Inflammatory Cells**

**GA03.01 (O/P)** HIGH-RESOLUTION ANALYSIS OF THE 5'-END TRANSCRIPTOME IN A MEMORY CD4+ T CELLS

Shinichi Hashimoto(1), Y Lee(1), B Ahsan(2), K Ogoshi(1), A Sasaki(2), Y Suzuki(3), S Sugano(3), S Morishita(2), K Matsushima(1)

(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Computational Biology, Graduate School of Frontier Sciences, The University of Tokyo, Japan, (3) Department of Medical Genome Science, Graduate School of Frontier Science, The University of Tokyo, Kashiwa, Japan

**GA03.02** INHIBITION OF HUMAN OSTEOCLASTOGENESIS BY INFLAMMATORY MOLECULES

Jong Dae Ji(1), B-N-R Lee(2), T-H Kim(2), J Jae-Bum(2), Y Dae-Hyun(2), W Jin Hyun(1), C Seong Jae(1), I Young Ho(1), S Gwan Gy(1), P-M Kyung-Hyun(3), IB Lionel(3)

(1) Division of Rheumatology, College of Medicine, Korea University, Korea, (2) The Hospital for Rheumatic Diseases, Hanyang University, Korea, (3) Arthritis and Tissue Degeneration Program, Hospital for Special Surgery, New York, USA

**GA03.03 (O/P)** IDENTIFICATION OF CLONOGENIC COMMON PLASMACYTOID AND DENDRITIC CELL PROGENITORS (CDP) IN MOUSE BONE MARROW

Nobuyuki Onai(1), A Obata-Onai(1), MA Schmid(2), T Ohteki(1), MG Manz(2)

(1) Department of Immunology, Akita University, Graduate School of Medicine, Japan, (2) Institute for Research in Biomedicine, Bellinzona, Switzerland

**GA03.04** CALPAIN-MEDIATED REGULATION OF THE DISTINCT SIGNALING PATHWAYS AND CELL MIGRATION IN HUMAN NEUTROPHILS AND MONOCYTES, BUT NOT LYMPHOCYTES

Takayuki Kato, H Fujita, S Kitagawa

Department of Physiology, Osaka City University Medical School, Japan

**GA03.05** OPPOSITE ROLES OF CCR2 AND CX3CR1 MACROPHAGES IN ALKALI-INDUCED CORNEAL NEOVASCULARIZATION

Peirong Lu(1), N Mukaida(2), X Zhang(3)

(1) Department of Ophthalmology, and Clinical Immunology Laboratory of Jiangsu Province, the First Affiliated Hospital of Soochow University, China, (2) Cancer Research Institute, Kanazawa University, Japan, (3) Clinical Immunology Laboratory of Jiangsu Province, and Biotechnology Institute, Soochow University, China

**GA03.06** CCR1 REGULATES INFLAMMATORY CELL INFILTRATION AFTER ISCHEMIC KIDNEY INJURY

Kengo Furuichi(1), T Wada(2), A Hara(2), N Sakai(1), J-L Gao(3), S Kaneko(4), PM Murphy(3)

(1) Division of Blood Purification, Kanazawa University Hospital, Japan, (2) Department of Laboratory Medicine, Kanazawa University, Japan, (3) Laboratory of Molecular Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, USA, (4) Disease Control and Homeostasis, Kanazawa University, Japan
GA03.07 PLASMIN IS A NOVEL CHEMOATTRACTANT FOR IMMATURE DENDRITIC CELLS ACTING THROUGH AKT2 KINASE
Thomas Simmet, T Syrovets, X Li, F Genze, K Pitterle, T Simmet
Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Germany

GA03.08 (O/P) TH17 CELL DIFFERENTIATION IS POSITIVELY CONTROLLED BY PI3K/AKT SIGNALING
Yutaka Kurebayashi, S Nagai, Y Baba, S Koyasu
Department of Microbiology & Immunology, Keio University, Japan

GA03.09 (O/P) A C-TYPE LECTIN MGL1/CD301A PLAYS AN ANTI-INFLAMMATORY ROLE THROUGH THE RECOGNITION OF COMMENSAL BACTERIA IN MURINE EXPERIMENTAL COLITIS
Kaori Denda-Nagai, K Saba, T Irimura
Laboratory of Cancer Biology and Molecular Immunology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Japan

GA03.10 A REGULATORY ROLE OF PIR-B-SHP-1 IN THE ACTIVATION OF PLASMACYTOID DENDRITIC CELLS
Akira Nakamura, T Takai
Department of Experimental Immunology, Institute of Development, Aging, and Cancer, Tohoku University, CREST, JST, Japan

GA03.11 ECTOPICALLY EXPRESSED PIR-B ON T CELLS CONSTITUTIVELY BINDS TO MHC CLASS I C-IS AND ATTENUATES T HELPER TYPE 1 RESPONSES
Michiyo Imada(1), K Masuda(2), R Satoh(2), Y Ito(1), Y Goto(1), T Matsuoka(1), S Endo(1), A Nakamura, H Kawamoto(2), T Takai(1)
(1) Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, CREST, JST, Japan, (2) Laboratory for Lymphocyte Development, RIKEN Research Center for Allergy and Immunology, Japan

GA03.12 P38 MAPK SIGNALING CONTRIBUTES TO THE PATHOGENESIS OF EXPERIMENTAL PERITONEAL FIBROSIS VIA FIBROCYTES
Satoshi Kokubo(1), N Sakai(2), Y Shinozaki(1), H Yamauchi(1), S Kitajima(1), A Hara(1), K Kitagawa(1), Y Iwata(1), K Furuichi(2), T Wada(3)
(1) Department of Disease Control and Homeostasis, Kanazawa University, Japan, (2) Division of blood purification, Kanazawa University, Japan, (3) Department of Laboratory Medicine, Kanazawa University, Japan

GA03.13 STUDY ON THE MECHANISM OF ACTIVATION OF MACROPHAGE BY APOPTOSIS-INHIBITORY PROTEIN C-FLIP
Li-Wen Fang, T-S Hwang, L-J Fang
Department of Medical Nutrition, I-Shou University, Taiwan

GA03.14 TLR4/MD-2 AND RP105/MD-1 DIFFERENTIALLY REGULATE LPS RESPONSIVENESS IN B CELLS
Yoshinori Naga(1), S Ohta(2), K Miyake(3), K Takatsu(1)
(1) Department of Immunobiology and Pharmacological Genetics, University of Toyama, Japan, (2) Department of Laboratory Medicine, Saga Medical School, Japan, (3) Division of Infectious Genetics, Department of Microbiology and Immunology, Institute of Medical Science, The University of Tokyo, Japan
GA03.15 PDCA-1 AND MOUSE PLASMACYTOID DC PRECURSOR CELLS
Tomoya Nakamura(1), Y Nagai(2), K Takatsu(2)
(1) Department of Immunobiology and Pharmacological Genetics University of Toyama, Ikeda Mohandou Co., Ltd., Toyama University, Japan, (2) Department of Immunobiology and Pharmacological Genetics Graduate School of Medicine and Pharmaceutical Science for Research University of Toyama, Japan

GA03.16 EFFECT OF NATURAL COMPOUNDS ON HUMAN MACROPHAGE ACTIVATION
Yukio Fujiwara(1), Y Komohara(1), T Ikeda(2), N Sakashita(1), M Takeya(1)
(1) Department of Cell Pathology, Kumamoto University, Japan, (2) Department of Natural Medicine Kumamoto University Japan

GA03.17 HDAC IN PAM3CSK4 INDUCED INOS EXPRESSION IN RAW 264.7 MACROPHAGES
Ming-Jen Hsu(1), P-T Chiu(1), J-R Sheu(1), C-H Lin(2), G Hsiao(1)
(1) Department of Pharmcology, Taipei Medical University, Taipei, Taiwan, (2) Graduate Institute of Medical Sciences, Taipei Medical University, Taipei, Taiwan

GA03.18 REGULATION OF THE ESTROUS CYCLE BY OPIOID PEPTIDES FROM NEUTROPHILS INFILTRATED INTO FEMALE GENITAL ORGAN
Sohichiro Sasaki(1), K Nagata(2), Y Kobayashi(2)
(1) Department of Immunology, Graduate School of Science, Toho University, Japan, (2) Department of Immunology, Graduate School of Toho University, Japan

GA03.19 ASSESSMENT OF EOSINOPHIL CHEMOTAXIS USING A NOVEL HORIZONTAL MICROCHANNEL DEVICE
Wataru Ito, H Kato, S Ueki, M Takeda, T Tanigai, H Kayaba, J Chihiro
Department of Clinical and Laboratory Medicine, Akita University School of Medicine, Japan

GA03.20 FIBROCYTES CONTRIBUTE TO THE PATHOGENESIS OF CARDIORENA SYNDROME THROUGH RENIN-ANGIOTENSIN SYSTEM
Norihiko Sakai(1), Y Shinozaki(1), A Hara(1), K Kitagawa(1), K Furuichi(1), S Kaneko(2), T Wada(1)
(1) Division of Nephrology, Kanazawa University, Japan, (2) Disease Control and Homeostasis, Kanazawa University, Japan

GA03.21 REGULATION OF HEPARANASE IN NEUTROPHILS THROUGH DEGRANULATION
Mayumi Sue(1), N Higasi(1), M Nakajima(2), T Irimura(1)
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GA03.22 TAXISCAN SYSTEM, A UNIQUE TECHNOLOGY FOR FUNCTIONAL ANALYSIS OF LEUKOCYTES
Akira Yamachi, Y Isogawa, K Watanabe, S Okamoto, Y Aoki, M Ueda, T Sato, M Degawa-Yamauchi, G Quinn, T Tsuchiya, S Kanegasaki
The First Department of Research, ECI, Inc., Japan
GA03.23  COOPERATION OF CD11B/CD18 WITH LYN-COUPLED LACER-ENRICHED MEMBRANE MICRODOMAINS DURING PHAGOCYTOSIS OF MYCOBACTERIA IN HUMAN NEUTROPHILS
Hitoshi Nakayama(1), H Kurihara(2), A Prinetti(3), S Sonnino(3), C Iwahara(4), K Kina(4)
K Takamori(4), H Ogawa(4), K Iwabuchi(4)
(1) Institute for Environmental and Gender-specific Medicine, Juntendo University Graduate School of Medicine, Japan, (2) Department of Anatomy(1), Juntendo University School of Medicine, Japan, (3) Department of Medical Chemistry and Biochemistry, Milano University, Italy, (4) Institute for Environmental and Gender-specific Medicine, Juntendo University School of Medicine, Japan

GA03.24  C-TYPE LECTIN/SYK AND MYD88 PATHWAYS SYNERGIZE TO ACTIVATE REGULATORY PROPERTIES OF NEUTROPHILS IN BACTERIAL INFECTION
Richard Lo-Man, X Zhang, L Majlessi, E Deriaud, C Leclerc
Department of Immunology, Institut Pasteur, France

GA03.25  THE T CELLS AND ITS SURFACE MARKERS ACTIVATED DIRECTLY BY AGONIST MOUSE ANTI-HUMAN CD28 MONOCLONAL ANTIBODY
Yuhua Qiu(1), C Su(2)
(1) Department of Immunology, Soochow University, China, (2) Department of Nuclear Medicine, Soochow University, China

GA04. Pharmacology/Toxicology

GA04.01  POSSIBLE MECHANISMS FOR β3-ADRENOCEPTOR-INDUCED RELAXATION IN GUINEA PIG TRACHEA
Hideo Honda(1), H Matsuda(2), M Kondo(2)
(1) Center for Experimental Pharmacy, Tokyo University of Pharmacy and Life Science, Japan, (2) Second Department of Physiology, Showa University, Japan

GA04.02  ASB16165, A NOVEL PHOSPHODIESTERASE 7A INHIBITOR IN DEVELOPMENT AS A TOPICAL AGENT FOR PSORIASIS (3) EFFECT ON NKT CELLS
Megumi Goto(1), M Murakawa(1), K Kadoshima-Yamaoka(1), Y Tanaka(1), H Inoue(1), H Murafuji(1), Y Hayashi(1), K Miura(1), T Nakatsuka(1), K Nagahira(1), K Chamoto(2), Y Fukuda(1), T Nishimura(2)
(1) Biomedical Research Laboratories, Asubio Pharma Co., Limited, Japan, (2) Division of Immunoregulation, Section of Disease Control, Institute for Genetic Medicine, Hokkaido University, Japan

GA04.03  ASB16165, A NOVEL PHOSPHODIESTERASE 7A INHIBITOR IN DEVELOPMENT AS A TOPICAL AGENT FOR PSORIASIS (1) EFFECT ON FUNCTION OF T-LYMPHOBLASTS
Masao Murakawa(1), K Kadoshima-Yamaoka(1), M Goto(1), Y Tanaka(1), H Inoue(1), H Murafuji(1), A Nagahira(1), Y Hayashi(1), K Nagahira(1), K Miura(1), T Nakatsuka(1), K Chamoto(2), Y Fukuda(1), T Nishimura(2)
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GA04.04  ASB16165, A NOVEL PHOSPHODIESTERASE 7A INHIBITOR IN DEVELOPMENT AS A TOPICAL AGENT FOR PSORIASIS (4) EFFECT IN TPA-INDUCED DERMATITIS MODEL
Biomedical Research Laboratories, Asubio Pharma Co., Limited, Japan
GA04.05  ASB16165, A NOVEL PHOSPHODIESTERASE 7A INHIBITOR IN DEVELOPMENT AS A TOPICAL AGENT FOR PSORIASIS (5) PRECLINICAL TOXICOLOGICAL STUDIES
Takafumi Yotsumoto(1), S Kanki(2), T Matsumoto(2), R Nakamura(1), M Doi(1), T Ochiai(1), M Nakamoto(1), M Kobayashi(2), T Tabata(2), Y Fujieda(2), T Iwata(1), A Ogata(2), H Ogasawara(2), Y Kanaï(1), Y Nakashima(1)
(1) Biopharm Center, Asubio Pharm Co., LTD., Japan, (2) Biomedical Research Laboratories, Asubio Pharma Co., LTD., Japan

GA04.06  ASB16165, A NOVEL PHOSPHODIESTERASE 7A INHIBITOR IN DEVELOPMENT AS A TOPICAL AGENT FOR PSORIASIS (2) EFFECT ON CYTOTOXIC T LYMPHOCYTES
Kumiko Kadoshima-Yamaoka(1), M Murakawa(1), M Goto(1), Y Tanaka(1), H Inoue(1), H Murafuji(1), Y Hayashi(1), K Nagahira(1), K Miura(1), T Nakatsuka(1), K Chamoto(2), Y Fukuda(1), T Nishimura(2)
(1) Biomedical Research Laboratories, Asubio Pharma Co., Limited, Japan, (2) Division of Immunoregulation, Section of Disease Control, Institute for Genetic Medicine, Hokkaido University, Japan

GA04.07  ADENOSINE RECEPTOR SUBTYPES INVOLVED IN THE BIPHASIC ACTION OF ADENOSINE ON ANTI-IGE INDUCED HISTAMINE RELEASE FROM HUMAN CULTURED MAST CELLS.
Alaster Hang Yung Lau, KH Yip, H Wise
Department of Pharmacology, The Chinese University of Hong Kong, Hong Kong, China

GA04.08  SA13353, A NEWLY SYNTHESIZED TRANSIENT RECEPTOR POTENTIAL VANILLOID 1 AGONIST, AS A CANDIDATE FOR ANTI-INFLAMMATORY AND IMMUNOMODULATORY AGENTS
Fumio Tsuji, M Murai, I Seki, K Oki, C Setoguchi, A Okahara, H Suhara, M Horiuchi, M Sasano, H Aono
Research and Development Center, Santen Pharmaceutical Co., Ltd., Japan

GA04.09  TO EVALUATE N-METHYFLINDERSINE , A NATURAL COMPOUND FROM ZANTHOXYLUM INTEGRIFOLIOLUM, INHIBITS FMLP-INDUCED SUPEROXIDE ANION PRODUCTION IN HUMAN NEUTROPHILS
Y-J Huang(1), J-J Chen(2), C-H Liao(1)
(1) Graduate Institute of Natural Products, Chang Gung University, Taiwan, (2) Tajen University, Taiwan

GA04.10  ANTI-INFLAMMATORY EFFECT OF PACHYPODOL IN HUMAN NEUTROPHILS
Chang-Hui Liao(1), C-H Liu(1), J-J Chen(2)
(1) Graduate Institute of Natural Products, Chang Gung University, Taiwan, (2) Tajen University, Taiwan

GA04.11  EFFECTS OF ACETYL-L-CARNITINE AGAINST ISCHEMIA/REPERFUSION INDUCED CARDIAC ARRHYTHMIAS IN ISOLATED RAT HEART
Moslem Najafi, S Ghaffary, E Shaseb
Department of Pharmacology, Tabriz University of Medical Sciences, Tabriz, Iran

GA04.12  SUPPRESSION OF SUPEROXIDE ANION AND ELASTASE RELEASE BY C18 UNSATURATED FATTY ACIDS IN HUMAN NEUTROPHILS
Tsong-Long Hwang,Y-C Su, H-L Chang, Y-L Leu, P-J Chung
Graduate Institute of Natural Products, Chang Gung University, Taiwan
GA04.13 GENOME-WIDE HIGH-RESOLUTION TRANSCRIPTOME IN CCL4-TREATED RAT LIVERS USING A NEXT GENERATION DNA SEQUENCER
Hideaki Yurino(1), S Hashimoto(1), B Ahsan(2), A Ametani(1), Y Suzuki(3), S Sugano(3), S Morishita(2), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, (2) Department of Computational Biology, Graduate School of Frontier Science, The University of Tokyo, Japan, (3) Department of Medical Genome Science, Graduate School of Frontier Science, The University of Tokyo, Japan

GA04.14 EFFECTS OF SELEGILINE ON PERITONITIS-INDUCED INFLAMMATION WITH MULTIPLE ORGAN DYSFUNCTION SYNDROME IN RATS
Chin-Chen Wu(1), S-J Chen(2), J-G Jhang(1), R-L Chen(1), C-T Chiu(1)
(1) Department of Pharmacology, National Defense Medical Center, Taiwan, (2) Department of Nursing, Kang-Ning Junior College of Medical Care and Management, Taiwan

GA04.15 COMPARISON BETWEEN THE EFFECTS OF GLUCOSE AND FRUCTOSE AGAINST ISCHEMIA/REPERFUSION-INDUCED CARDIAC ARRHYTHMIAS
Moslem Najafi, A Gharakhani, H Ghavimi
Department of Pharmacology, Tabriz University of Medical Sciences, Tabriz, Iran

GA04.16 INFLIXIMAB TREATMENT IN PATIENTS WITH RHEUMATOID ARTHRITIS AND SPONDYLARTHROPATHIES; TWO YEARS DRUG SURVIVAL
Tiina Marjaana Levalampi(1), M Korpela(2), K Vuolteenaho(1), E Moilanen(1)
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GA04.17 EFFECT OF CHRONIC TREATMENT WITH RALOXIFENE, A SELECTIVE ESTROGEN RECEPTOR MODULATOR, ON MYOCARDIAL ISCHEMIA/REPERFUSION INJURY IN OVARIECTOMIZED RATS
Yen-Mei Lee(1), P-Y Cheng(2), M-H Yen(1)
(1) Department of Pharmacology, National Defense Medical Center, Taiwan, (2) Graduate Institute of Chinese Pharmaceutical Sciences, China Medical University, Taiwan

GA04.18 CHRYSIN PREVENTS THE UVA-INDUCED DAMAGE IN HUMAN DERMAL FIBROBLAST
Chi-Feng Hung(1), C-J Wu(2)
(1) School of Medicine, Fu Jen Catholic University, Taiwan, (2) Graduate Institute of Basic Medicine, Fu Jen Catholic University, Taipei Hsien, Taiwan

GA04.19 CONTROL OF HUMAN VASCULAR TONE BY THE HIGH LEVELS OF PGE2 RELEASED DURING VASCULAR INFLAMMATION
Xavier Norel, N Foudi, L Louedec, T Cachina, C Brink
Haemostasis, Bio-engineering and Cardiovascular Remodeling, INSERM U698, France

GA04.20 DEXAMETHASONE ASSOCIATED WITH SPECIFIC SEROTHERAPY IMPROVED THE TREATMENT OF LOCAL INFLAMMATORY REACTIONS EXPERIMENTALLY INDUCED BY BOTHROPS VENOMS IN MICE
Luis Roberto Goncalves, NC Castro Jr., BC Zychar
Laboratory of Pathophysiology, Butantan Institute, Brazil

GA04.21 IN VIVO EXPOSURE OF PHENOL (PHE) OR HYDROQUINONE (HQ) IMPAIRS ANTIGEN PRESENTATION AND LUNG ALLERGIC INFLAMMATION
Cristina Bichels Hebeda(1), SMD Macedo(2), DMH Cavalcanti(1), JM Ferreira Jr.(3), MDG T S(1), SR Almeida(1), SHP Farsky(1)
(1) Department of Clinical and Toxicological Analyses, University of Sao Paulo, Brazil, (2) Integrated Regional University of Erechim, Brazil, (3) Butantan Institute, Brazil
GA04.22  EFFECTS OF IN VITRO HYDROQUINONE EXPOSURE ON ADHESION MOLECULES EXPRESSIONS BY ENDOTHELIAL CELLS  
Cristina Bichels Hebeda, FJ Pinedo, SHP Farsky  
Department of Clinical and Toxicological Analyses, University of Sao Paulo, Brazil  

GA04.23  [WITHDRAWN]  

GA04.24  EFFECTS OF METALLOPROTEINASES ISOLATED FROM BOTHROPS VENOMS ON THE MICROCIRCULATION OF THE CREMATES MUSCLE OF MICE: ROLE OF DIFFERENT DOMAINS  
Bianca Cestari Zychar(1), C Baldo(2), PB Clissa(2), LR Goncalves(1)  
(1) Laboratory of Pathophysiology, Butantan Institute, Brazil, (2) Laboratory of Immunopathology, Butantan Institute, Brazil  

GA04.25  CONTRIBUTION OF PROTEINASES AND PHOSPHOLIPASES-A, OF THE CRUDE VENOM OF BOTHROPS JARARACA SNakes ON INFLAMMATORY REACTIONS INDUCED IN MICE  
Luis Roberto Goncalves, BC Zychar, CS Dale, DS Demarchi  
Laboratory of Pathophysiology, Butantan Institute, Brazil  

GA04.26  EFFECT OF GSNO, A NITRIC OXIDE DONOR, ON EXPERIMENTAL PERIODONTITIS  
Gerly Anne de Castro Birto(1), AMA Menezes(1), GFP Souza(2), AS Gomes(1), MG Oliveira(2)  
(1) Department of Physiology and Pharmacology, Universidade Federal do Ceara, Brazil, (2) University of Campinas, Brazil  

GA04.27  PHARMACOLOGY OF COMPETITIVE INHIBITORS OF HMG-COA REDUCTASE  
Arthrun Sara, K Yamato  
School of Science and Technology, University of New England, Australia  

GA04.28  PYROGENIC TOXIN SUPERANTIGEN SITE SPECIFICITY IN TOXIC SHOCK SYNDROME AND FOOD POISONING IN ANIMALS  
Gouku Sun, B ALba  
School of MATial Art, University of Turtle, Cook Islands  

GA07. Inflammatory Diseases (2)  

GA07.38 (O/P)  CARDIAC MAST CELL-DERIVED PDGF-A PROMOTES ATRIAL FIBRILLATION IN PRESSURE-OVERLOADED HEARTS  
Chien-hui Liao(1), H Akazawa(1), M Tamagawa(2), H Nakaya(2), H Nakauchi(3), I Komuro(1)  
(1) Department of Cardiovascular Science and Medicine, Chiba University Graduate School of Medicine, Japan, (2) Department of Pharmacology, Chiba University Graduate School of Medicine, Japan, (3) Division of Stem Cell Therapy, Center for Stem Cell and Regenerative Medicine, Institute of Medical Science, The University of Tokyo, Japan  

GA07.39 (O/P)  ACCELERATED EXPRESSION OF INTERLEUKIN-23 AND SMAD2 mRNA IN BEHCET'S DISEASE  
Jun Shimizu(1), N Suzuki(1), F Kaneko(2), S Kaneko(3)  
(1) Department of Immunology and Medicine, St. Marianna University School of Medicine, Japan, (2) Department of Dermatology, Fukushima Medical University, Japan, (3) Department of Dermatology, Shimane University School of Medicine, Japan
GA07.40 (O/P)  PRAVASTATIN ATTENUATES ALLERGIC AIRWAY INFLAMMATION
Mitsuru Imamura, M Dohi, K Okunishi, K Nakagome, O Sasaki, T Matsumoto, H Harada, R Tanaka, K Yamamoto
Department of Allergy and Rheumatology, University of Tokyo, Japan

GA07.41  INHIBITION OF ACUTE LUNG INJURY INDUCED BY HUMAN NEUTROPHIL ELASTASE (NE) IN MICE, BY THE NEW NE-INHIBITOR, POL6014
Vincent Lagente(1), I Guenon(1), I Morel(2), A Fautrel(3), O Sellier-Kessler(4), E Chevalier(4)
(1) INSERM U620/EA MDC, Universite de Rennes 1, France, (2) CHU Pontchaillou, Rennes, France, (3) Plateforme d’Histopathologie, Universite de Rennes 1, Rennes, France, (4) POLYPHOR Ltd, Allschwil, Switzerland

GA07.42  ANALYSIS OF THE DEVELOPMENT OF INFLAMMATORY PROCESS AND EMPYSEM A AFTER INTRATRACHEAL ADMINISTRATION OF ELASTASE IN RATS
Vincent Lagente(1), E Delpy(2), A Fautrel(3), M Loiseau(2), C Drieu La Rochelle (2)
(1) INSERM U620/EA MDC, Universite de Rennes 1, France, (2) Biotrial, Rennes, France, (3) Plateforme d’Histopathologie, Universite de Rennes 1, Rennes, France

GA07.43  MYCOBACTERIUM-DERIVED HEAT SHOCK PROTEIN 70 INDUCES ANTI-CITRULLINATED PROTEIN ANTIBODIES
Hirofumi Shoda, K Fujio, K Yamamoto
Department of Allergy and Rheumatology, Graduate School of Medicine, the University of Tokyo, Japan

GA07.44 (O/P)  IL-20 IS REGULATED BY HYPOXIA-INDUCIBLE FACTOR AND UPREGULATED AFTER EXPERIMENTAL ISCHEMIC STROKE
Ming-shi Chang, W-Y Chen
Department of Biochemistry and Molecular Biology, Medical College of National Cheng-kung University, Taiwan

GA07.45  DIFFERENTIAL EXPRESSION OF T CELL IMMUNOGLOBULIN- AND MUCIN-DOMAIN-CONTAINING MOLECULE-3 (TIM-3) ACCORDING TO ACTIVITY OF BEHÇET’S DISEASE
Joong Sun Lee(1), S Park(2), KS Park(3), E-S Lee(1)
(1) Department of Dermatology, Ajou University, Korea, (2) Department of Microbiology, Ajou University School of Medicine, Korea, (3) Department of Biolo gy and Institute of Basic Science, Sungshin Women’s University, Korea

GA07.46  TWO CASES OF ADULT TRAPS (TUMOR NECROSIS FACTOR-ASSOCIATED PERIODIC SYNDROME) TREATED WITH ETANERCEPT
Kanako Takano(1), K Ohmura(1), Y Imura(1), Y Ono(1), N Kawaguchi(1), A Shima(1), N Yukawa(1), D Kawabata(1), T Nojima(1), T Fujii(1), N Ohashi(2), H Umehara(3), M Saito(4), R Nishikomori(4), T Mimori(1)
(1) Rheumatology and Clinical Immunology, Kyoto University Graduate School of Medicine, Japan, (2) Ohashi Clinic of Cardiovascular Medicine, Japan, (3) Department of Rheumatology and Hematology, Kanazawa Medical University, Japan, (4) Department of Pediatrics, Kyoto University, Japan

GA07.47 (O/P)  LONG-TERM ICAM-1 EXPRESSION ON PMA-ACTIV ATED THP-1 CELLS HARBORING DISEASE-ASSOCIATED NOD2 MUTATIONS
Nobuo Kanazawa(1), M Nishiyama(1), H-J Li(1), I Okafuji(2), N Kambe(3), F Furukawa(1)
(1) Department of Dermatology, Wakayama Medical University, Japan, (2) Department of Pediatrics, Kyoto University Graduate School of Medicine, Japan, (3) Department of Dermatology, Chiba University Graduate School of Medicine, Japan
GA07.48

REBAMIPIDE INHIBITS EXPRESSION OF TUMOR NECROSIS FACTOR-α-INDUCED INTERLEUKIN-8 BY SUPPRESSING THE NF-κB SIGNAL PATHWAY IN HUMAN UMBILICAL ENDOTHELIAL CELL LINES
Seong-Kyu Kim(1), K-Y Park(2), S-J Lee(2), J-Y Choe(1), S-H Park(1)
(1) Department of Rheumatology, Catholic University of Daegu School of Medicine, Korea, (2) Medical Institute of Medical Research, Catholic University of Daegu School of Medicine, Korea

GA07.49

INFLAMMATORY EFFECTS INDUCED BY THE METALLOPROTEINASE BAPI, ISOLATED FROM BOTHROPS ASPER SNAKE VENOM, IN RAT SYNOVIAL TISSUE.
Catarina Teixeira(1), CM Fernandes(1), MA Cruz Hofling(2), JM Gutierrez(3)
(1) Pharmacology, Butantan Institute, Brazil, (2) Department of Histology and Embriology, Biology Institute, University of Campinas (UNICAMP), Brazil, (3) Clodomiro Picado Institute, University of Costa Rica, Costa Rica

GA07.50

OXIDATIVE STRESS AND AUTOIMMUNITY IN COPD
Paul Kirkham(1), I Adcock(1), F Chung(1), P Barnes(1), K Triantaphyllopoulos(1), M Edwards(2), G Caramori(3)
(1) National Heart and Lung Institute, Imperial College London, UK, (2) Novartis Institute for Biomedical Research, Horsham, UK, (3) Centre for research on Asthma and COPD, Ferrara University, Italy

GA07.51 (O/P)

TARGETING INFLAMMATORY PROCESSES IN ATHEROSCLEROSIS BY ANTI-MIF/CXCR STRATEGIES
Juergen Bernhagen(1), C Weber(2), S Kraemer(3), H Lue(3), A Zernecke(2), M Drechsler(2), R Krohn(2)
(1) Department of Biochemistry & Molecular Cell Biology, RWTH Aachen University, Germany, (2) IMCAR, RWTH Aachen University, Germany, (3) Department of Biochemistry & Molecular Cell Biology, RWTH Aachen University, Germany

GA07.52 (O/P)

IFN-GAMMA PLAYS AN ACCELERATIVE ROLE INSTEAD OF A SUPPRESSIVE ROLE IN RANKL INDUCED OSTEOCLASTOGENESIS IN THE PRESENCE OF LPS
Esperanza Raquel Ayon Haro, T Ukai, Y Yoshinaga, M Yokoyama, Y Hara
Department of Periodontology, Nagasaki University Graduate School of Biomedical Sciences, Japan

GA07.53 (O/P)

DOPAMINE FUNCTIONS AS A DENDRITIC CELLS-MEDIATED TH17-POLARIZING FACTOR AND PLAYS A ROLE FOR THE PATHOGENESIS OF RHEUMATOID ARTHRITIS
Kazuhiisa Nakano(1), K Saito(1), K Yamaoka(1), S Matsushita(2), Y Tanaka(1)
(1) The First Department of Internal Medicine, University of Occupational & Environmental Health, Japan, (2) Department of Allergy and Immunology, Faculty of Medicine, Saitama Medical University, Saitama, Japan

GA07.54

FREQUENCY OF BLOOD DENDRIC CELL ANTIGEN 2-POSITIVE CELLS IN PATIENTS WITH SYSTEMIC LUPUS ERYTHEMATOSUS
Miho Ohshima, H Kanda, K Kubo, A Hayashi, S Tateishi, K Yamamoto
Department of Allergy and Rheumatology, University of Tokyo, Japan

GA07.55

PNEUMOCYSTIS JIROVECI PNEUMONIA (PCP) ASSOCIATED WITH ETANERCEPT IN PATIENTS WITH RHEUMATOID ARTHRITIS
Michi Tanaka(1), R Sakaai(1), T Nanki(1), N Miyasaka(2), M Harigai(1)
(1) Department of Pharmacovigilance, Tokyo Medical Dental University Graduate School, Japan, (2) Department of Rheumatology and Internal Medicine, Tokyo Medical Dental University Graduate School, Japan
GA07.56  IL-17 UP-REGULATES EXPRESSION OF RECEPTOR ACTIVATOR OF NF-KAPPA B LIGAND (RANKL) IN RHEUMATOID ARTHRITIS SYNOVIAL FIBROBLASTS
(1) Division of Rheumatology, Konkuk University School of Medicine, Korea, (2) Division of Rheumatology, Department of Internal Medicine, Konkuk University School of Medicine, Seoul, Korea, (3) Rheumatism Research Center, The Catholic University, Seoul, Korea, (4) Division of Rheumatology, Hallym University Medical Center, Korea, (5) Division of Rheumatology, Iisan Paik Hospital, Korea, (6) Division of Rheumatology, Bucheon Sungga Hospital, Korea

GA07.57  MACROPHAGE MIGRATION INHIBITORY FACTOR (MIF) UP-REGULATES EXPRESSION OF RECEPTOR ACTIVATOR OF NF-KAPPA B LIGAND (RANKL) IN RHEUMATOID ARTHRITIS SYNOVIAL FIBROBLASTS
(1) Division of Rheumatology, Konkuk University School of Medicine, Korea, (2) Division of Rheumatology, Department of Internal Medicine, Konkuk University School of Medicine, Seoul, Korea, (3) Rheumatism Research Center, The Catholic University, Seoul, Korea, (4) Division of Rheumatology, Hallym University Medical Center, Korea, (5) Division of Rheumatology, Iisan Paik Hospital, Korea, (6) Division of Rheumatology, Bucheon Sungga Hospital, Korea

GA07.58  ABERRANT INTEGRIN ACTIVATION INDUCES P38 MAPK PHOSPHORYLATION RESULTING IN SUPPRESSED FAS-MEDIATED APOPTOSIS IN T CELLS: IMPLICATIONS FOR RHEUMATOID ARTHRITIS.
Yu-Ping Lin(1), C-C Su(1), J-Y Huang(1), H-C Lin(1), Y-J Cheng(2), M-F Liu(3), B-C Yang(2)
(1) Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan, (2) Department of Microbiology & Immunology, NCKU University, Taiwan, (3) Inner Medicine, College of Medicine, NCKU University, Taiwan

GA07.59  IL-12 PRODUCING, CD8ALPHA+ DENDRITIC CELLS AUGMENT COLLAGEN-INDUCED ARTHRITIS
(1) Rheumatism Research Center, Catholic University, Korea, (2) Division of Rheumatology, Department of Internal Medicine, Kang-Nam Sacred Heart Hospital, Hallym University, Seoul, Korea, (3) The Rheumatism Research Center, Catholic Research Institute of Medical Science, The Catholic University of Korea, Seoul, Korea

GA07.60 (O/P)  SUPPRESSOR OF CYTOKINE SIGNALING 3 (SOCS3) IS A SAFETY MECHANISM TO CONTROL PSORIATIC SKIN INFLAMMATION.
Masato Kubo(1), A Konomi-Uto(2), S Suzuki(2), C Daniel(3)
(1) Laboratory for Signaln Network, RIKEN Research Center for Allergy and Immunology, Japan, (2) Department of Molecular & Cellular Biology (MCB), Kobe Pharma Research Institute, Nippon Boehringer Ingelheim Co., Ltd., Japan, (3) Schering-Plough Biopharma (former DNAX Research), USA
GA07.61  IL-23 INDUCES RANKL EXPRESSION IN FIBROBLAST-LIKE SYNOVIOCYTES FROM PATIENTS WITH RHEUMATOID ARTHRITIS AND PROMOTES HUMAN OSTEOCLASTOGENESIS
(1) Division of Rheumatology, The Konkuk University, Korea, (2) Dalian University, Medical School Dalian, China, (3) The Center for Rheumatic Diseases in Kangnam St. Mary's Hospital, and Rheumatism Research Center, College of Medicine, The Catholic University of Korea, Seoul, Korea, (4) Division of Rheumatology, Bucheon Sungga Hospital, Korea, (5) Division of Rheumatology, Department of Internal Medicine, The Konkuk University of Korea, Seoul, Korea

GA07.62  ALTERED GENE EXPRESSION IN IN VIVO TRANSMIGRATED NEUTROPHILS IN PATIENTS WITH CORONARY ARTERY DISEASE.
Josefin Maria Paulsson(1), A Moshfegh(2) E Dadfar(1), T Nieminen(1), C Held(3), SH Jacobson(4), J Lundahl(1)
(1) Department of Clinical Immunology and Allergy, Karolinska Institutet, Sweden, (2) Cancer Centrum, Karolinska Institutet, Sweden, (3) Uppsala Clinical Research Center, Sweden, (4) Department of Nephrology, Karolinska Institutet, Sweden

GA07.63  ROLE OF IL-21 IN TH17 DIFFERENTIATION IN RHEUMATOID ARTHRITIS
Guangjie Chen, N Xiaoying
Department of Immunology, Shanghai JiaoTong University, School of Medicine, China

GA07.64 (O/P)  AMELIORATION OF ACUTE TUBULAR NECROSIS IN ISCHEMIC ACUTE RENAL FAILURE WAS IMPAIRED IN MICE LUCKING HYPOXIA INDUCIBLE FACTOR-1ALPHA GENE
Shuhei Tomita(1), K Yamaguchi(1), K Ishizawa(1), K Tsuchiya(2), T Tamaki(1)
(1) Department of Pharmacology, University of Tokushima Graduate School of Medicine, Japan, (2) Department of Medical Pharmacology, University of Tokushima, Japan

GA07.65  TREM-1 EXPRESSION IS INCREASED IN THE SYNOVIUM OF RHEUMATOID ARTHRITIS PATIENTS AND PLAYS A ROLE IN AN ARTHRITIS MODEL
(1) Department of Inflammation, Wyeth, USA, (2) Kennedy Institute of Rheumatology Division, Faculty of Medicine, Imperial College London, UK., (3) Department of Experatory Drug Safety, Wyeth, USA, (4) Department of Biological Technology, Wyeth, USA, (5) Department of Cardiovascular and Metabolic Disease, Wyeth, USA

GA07.66  IDENTIFICATION OF SOLUBLE MD-1 AND ITS ROLE IN AUTOIMMUNE DISEASES
Sumiyo Sasaki, Y Nagai, K Takatsu
Department of Immunobiology and Pharmacological, Graduate School of Medicine and Pharmaceutical Sciences for Research, University of Toyama, Japan

GA07.67  SUPPRESSION OF GATA-3 NUCLEAR IMPORT AND PHOSPHORYLATION: A NOVEL MECHANISM OF CORTICOSTEROID ACTION IN ALLERGIC DISEASE
Ian M Adcock, X Yao, K Ito, E Jazrawi, C Liebig, O Usmani, PJ Barnes, K Mannechotesuwann
Airways Disease Section, National Heart & Lung Institute, Imperial College London, UK
GA07.68 EFFECT OF ANAKINRA ON ARTHROPATHY IN CINCA SYNDROME
Takako Miyamae(1), M Kikuchi(1), T Kishi(1), R Har(1), U Kaneko(1), T Shinoki(1), T Imagawa(1), S Yokota(1), Y Inaba(2)
(1) Department of Pediatrics, Yokohama City University, Japan, (2) Department of Orthopedics, Yokohama City University, Japan

GA07.69 (O/P) ROLE OF TNF-α PRODUCED BY NON-ANTIGEN-SPECIFIC CELLS IN A MURINE FULMINANT HEPATITIS MODEL
Hiroyasu Ito(1), K Ando(1), T Ishikawa(2), K Saito(3), M Takemura(1), M Imawari(4), H Moriwaki(5), M Seishima(1)
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GA07.70 (O/P) SELECTIVE SUPPRESSION OF INTESTINAL GVHD BY DEPRIVING GUT-HOMING DONOR INTRAEPITHELIAL LYMPHOCYTE PRECURSORS
Kenjiro Matsuno(1), H Ueta(1), S Zhou(1), X-D Xu(1), Y Sawanobori(1), H Yoneyama(2)
(1) Department of Anatomy (Macro), Dokkyo Medical University, Japan, (2) Stelic Institute of Regenerative Medicine, Tokyo, Japan

GA07.71 SUPEROXIDE DISMUTASE-1 REGULATES CORNEAL NEOVASCULIZATION IN MICE
Miyuki Kubota, S Shimura, T Kurihara, S Kubota, S Ishida, T Kawakita, K Tsubota
Department of Ophthalmology, Keio University, Japan

GA07.72 SYNOVIAL EXPRESSION PATTERN OF INFLAMMATORY CYTOKINES
Young-Eun Park(1), J-W Lee(2), M-R Cho(1), S-H Baek(3), G-T Kim(4), J-H Lee(5), S-I Kim(1)
(1) Department of Rheumatology, Pusan National University Hospital, Korea, (2) Busan St. Mary’s Medical Center, Busan, Korea, (3) Pusan National University Yangsan Hospital, Yangsan, Korea, (4) Gosin Gaspel University Hospital, Busan, Korea, (5) Busan Choon-Hae Hospital, Busan, Korea

GA07.73 REGULATORY T CELLS INHIBIT IL-6-DEPENDENT INFLAMMATORY BOWEL DISEASE TRIGGERED BY FLORA-SPECIFIC IL-17-PRODUCING CD8+ T CELLS
Masaki Tajima(1), T Nishimura(2)
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GA07.74 (O/P) INDISPENSABLE ROLE OF IFN-γ IN TH17 CELL-DEPENDENT AIRWAY HYPERRESPONSIVENESS
Shigeru Ashino(1), T Nishimura(2)
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GA07.75 REGULATORY MECHANISMS FOR ADIPOSE TISSUE M1 AND M2 MACROPHAGES IN DIET-INDUCED OBESE MICE
Kazuyuki Tobe, S Fujisaka, Y Kanatani, Y Yamazaki, A Bukhari, H Suzuki, M Iwata, M Ishiki, M Urakaze, I Usui
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GA07.76 GENETIC POLYMORPHISMS IN TLR4 BUT NOT TLR9 GENE ARE ASSOCIATED WITH TUBERCULOSIS IN NORTH INDIAN POPULATION
Narinder Mehra(1), N Najmi(1), G Kaur(1), SK Sharma(2)
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GA08. Inflammatory Diseases Caused by Infection

GA08.01 ESTABLISHMENT OF QUANTITATIVE MODEL OF STAPHYLOCOCCAL OSTEOMYELITIS USING BIOIMAGING TECHNIQUES
Haruki Funao(1), K Ishii(1), S Nagai(2), A Sasaki(3), T Hoshikawa(4), M Aizawa(4), Y Okada(3), K Chiba(1), S Koyasu(2), Y Toyama(1), M Matsumoto(1)
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GA08.02 IL-1β INDUCES MMP-9 EXPRESSION VIA A CA²⁺-DEPENDENT CAMKII/JNK/C-JUN CASCADE IN RAT BRAIN ASTROCYTES
Cheng Ying Wu(1), H-L Hsieh(2), C-C Sun(3), C-M Yang(1)
(1) Department of Physiology and Pharmacology, Chang Gung University, Taiwan. (2) Department of Nursing, Division of Basic Medical Sciences, Chang Gung Institute of Technology, Kwei-San, Tao-Yuan, Taiwan. (3) Department of Ophthalmology, Chang Gung Memorial Hospital, Keelung, Taiwan

GA08.03 (O/P) DENDRITIC CELL-DERIVED NOTCH LIGAND DELTA-LIKE 4 REGULATES THE IMMUNE ENVIRONMENT VIA TOLL-LIKE RECEPTOR 9
Toshihiro Ito(1), M Schaller(1), CM Hogaboam(1), TJ Standiford(2), M Sandor(3), NW Lukacs(1), SW Chensue(4), SL Kunkel(1)
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GA08.04 IMMUNOLOGIC IMPLICATIONS OF MAST CELLS IN SEPSIS
Luis Ulloa, L Ramos, G Pena, B Cai
Surgery, UMDNJ-New Jersey Medical School, USA

GA08.05 PERSISTENT ELEVATIONS OF OSTEOPONTIN AFTER HAART IN AIDS
Haorile Y Chagan, H Saitoh, Y Ashino, S Li, T Hattori
Department of Emerging Infectious Disease, Graduate School of Medicine, Tohoku University, Japan

GA08.06 PROTECTIVE ROLES OF MAST CELL-DERIVED VEGF ON MALARIA
Naohiro Watanabe(1), M Shibuya(2), T Furuta(3)
(1) Department of Tropical Medicine, Jikei University, Japan. (2) Department of Medical Oncology, Faculty of Medicine, Tokyo Medical and Dental University, Japan. (3) Division of Infectious Genetics, Department of Microbiology and Immunology, Institute of Medical Science, University of Tokyo, Japan
GA08.07 INVOLVEMENT OF PERIODONTOPATHIC BACTERIA IN THE FORMATION OF INFARCTION
Takeshi Tsutsumi(1), K Nakashima(2), T Isoda(3), H Kasai(2), M Yokota(2), T Nishihara(1)
(1) Division of Infections and Molecular Biology, Department of Health Promotion, Kyushu Dental College, Japan, (2) Science of Oral Functions, Department of Cariology and Periodontology, Division of Periodontology, Kyushu Dental College, Japan, (3) Department of Life and Environment Engineering, Faculty of Environmental Engineering, University of Kitakyushu, Japan

GA08.08 (O/P) THE ROLES OF NOD LIKE RECEPTORS IN INFLAMMATION AND CARCINOGENESIS ARE DIFFERENT BETWEEN JAPANESE AND CAUCASIAN
Tsuyoshi Tanabe(1), N Yamaguchi(1), Y Eishi(2), H Amano(1), T Kakamu(1), Y Fujita(1)
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GA08.09 CRITICAL ROLE OF IL-17A IN HELICOBACTER PYLORI-INDUCED GASTRITIS
Shigenori Nagai(1), T Yamada(2), Y Baba(1), Y Iwakura(3), S Koyasu(1)
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GA08.10 (O/P) AN ORALLY ACTIVE, SMALL MOLECULE CCR3 ANTAGONIST, W-56750, EXERTS POTENT ANTI-ALLERGIC EFFECTS
Hidemitsu Higashi(1), N Sato(1), K Sakata(1), S Takeda(2), M Kiuchi(2), M Kikuchi(1), T Sugita(1), K Chiba(1)
(1) Pharmacology Laboratory, Mitsubishi Tanabe Pharma Co., Japan, (2) Medicinal Chemistry, Research Division, Mitsubishi Tanabe Pharma Co., Japan

GA08.11 NITRIC OXIDE SYNTHESIS IN PERIIMPLANTITIS
Alina Elena Parvu(1), SF Alb(2), S Clichici(3), A Craciun(4), C Craciun(5), M-A Taulescu(6), G Baciu(7), M Baciu(7), C Mogosan(8)
(1) Pathophysiology, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania, (2) Periodontology, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania, (3) Physiology, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania, (4) Biochemistry, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania, (5) Center of Molecular and Cellular Biology- Babes Bolyai University, Roumania, (6) Pathology, University of Agricultural and Veterinary Sciences, Roumania, (7) Oromaxillofacial Surgery, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania, (8) Pharmacology, University of Medicine and Pharmacy Iuliu Hatieganu, Roumania

GA08.12 ADENOSINE DEAMINASE INHIBITOR PREVENTS CLOSTRIDIUM DIFFICILE TOXIN A-INDUCED ENTERITIS AND PTX3 EXPRESSION IN MICE
Gerly Anne de Castro Birto(1), AFTA Junqueira(2), AAM Dias(3), ML Vale(1), GMGT Spilborghs(3), AS Gomes(1), RL Guerrant(4), RA Ribeiro(1)
(1) Department of Physiology and Pharmacology, Universidade Federal do Ceara, Brazil, (2) Department of Morphology, Faculty of Medicine, Federal University of Ceara, Brazil, (3) Hospital AC Camargo, Sao Paulo, Brazil, (4) Center for Global Health, University of Virginia, USA
GA08.13 (O/P) PROLONGED SURVIVAL OF MAIR-I (CD300A)-DEFICIENT MICE FROM ACUTE SEPTIC PERITONITIS
Chigusa Nakahashi-Oda, S Tahara-Hanaoka, M Shoji, N Totsuka, K Hitomi, T Nakano, A Shibuya
Department of Immunology, University of Tsukuba, Japan

GA09. Cancer and Inflammation, Angiogenesis

GA09.01 CRUCIAL INVOLVEMENT OF THE CCR2/CCL2 INTERACTIONS IN AZOXYMETHANE/DEXTRAN SODIUM SULFATE-INDUCED COLON CARCINOGENESIS IN MICE
Boryana K Popivanova, F Kostadinova, N Mukaida
Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Japan

GA09.02 (O/P) AUGMENTATION OF HEPATIC CANCER STEM CELLS BY WNT/BETA-CATENIN SIGNALING
Taro Yamashita(1), J Ji(2), A Budhu(2), M Forgues(2), H Jia(3), Q Ye(3), L-X Qin(3), E Wauthier(4), LM Reid(4), H Minato(5), M Honda(1), S Kaneko(1), W Yang(6), W Hongyang(6), Z-Y Tang(3), X Wang(2)
(1) Department of Gastroenterology, Kanazawa University, Japan, (2) Laboratory of Human Carcinogenesis, Center for Cancer Research, National Cancer Institute, Bethesda, MD, USA, (3) Liver Cancer Institute and Zhongshan Hospital, Fudan University, Shanghai, China, (4) Department of Cell and Molecular Physiology, University of North Carolina School of Medicine, Chapel Hill, NC, USA, (5) Liver Disease Center and Kanazawa University Hospital, Kanazawa University, Kanazawa, Japan, (6) Eastern Hepatobiliary Surgery Hospital, Shanghai, China

GA09.03 (O/P) CHEMOKINE-MEDIATED RAPID TURNOVER OF INFLAMMATION-ASSOCIATED MACROPHAGES AND NEUTROPHILS IN TUMOR-BEARING MICE
Satoshi Ueha(1), Y Sawanobori(2), M Kurachi(1), J Abe(1), K Kakimi(1), K Matsushima(1)
(1) Department of Molecular Preventive Medicine, The University of Tokyo, Japan, (2) Department of Anatomy (Macro), Dokkyo Medical University, Japan

GA09.04 ROLE OF THROMBOXANE A2-TP SIGNALING IN TUMOR GROWTH AND METASTASIS
Hideki Amano(1), Y Mastui(1), Y Ito(2), K Nezu(1), H Harai(1), F Ogawa(1), A Iyoda(1), Y Satoh(1), S Narumiya(3), M Majima(4)
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GA09.05 (O/P) SILENCING OF SOCSI IN MACROPHAGES SUPPRESSES TUMOR DEVELOPMENT BY ENHANCING ANTI-TUMOR INFLAMMATION
Masayuki Hashimoto, A Yoshimura
Department of Microbiology and Immunology, Keio University School of Medicine, Japan

GA09.06 (O/P) INTERACTION OF INFLAMMATORY CHEMOKINES AND THEIR BINDERS IN TUMOR MICROENVIRONMENT
Zhou Luo Ou, SF Wei, B Bai, J Wang, FY Wu, TW Cheng, XF Liu, LP Wang, LY Feng, J Li, XH Zeng, Y Zhai, ZM Saho
Breast Cancer Institute, Fudan University Cancer Hospital, China
GA09.07 EFFECT OF ATORVASTATIN ON 5-FUOROURACIL-INDUCED ORAL MUCOSITIS IN HAMSTERS
Gerly Anne de Castro Birto(1), CAC Xavier(2), RN Macedo(1), DRMM Barboza(1), RFC Leitao(1), NMN Alencar(1)
(1) Department of Physiology and Pharmacology, Universidade Federal do Ceará, Brazil, (2) Department of Pharmacology, Universidade do Estado do Rio Grande do Norte, Brazil

GA09.08 THREE-DIMENSIONAL POWER DOPPLER ULTRASONOGRAPHY OF INFAMED KIDNEY VASCULARIZATION IN DOG
Mohammad Molazem, A Vajhi, M Masoudifarid, N Sayah
Veterinary Radiology, University of Tehran, Iran

GA09.09 CXCR7 INDUCED BY TAX PROMOTES PROLIFERATION OF HTLV-1 INFECTED T CELLS
Aiko Shirakawa, D Nagakubo, T Nakayama, K Hieshima, O Yoshie
Department of Microbiology, Kinki University School of Medicine, Japan

GA09.10 (O/P) ABERRANT EXPRESSION AND ONCOGENIC ROLE OF FRA-2 IN MATURE T-CELL MALIGNANCIES EXPRESSING CCR4
Osamu Yoshie, T Higuchi, T Nakayama
Department of Microbiology, Kinki University School of Medicine, Japan

GA09.11 ROLE OF PROSTAGLANDIN D2 IN BLADDER CARCINOMA CELL THERAPY
Masaki Nakamura(1), S Yamaguchi(1), K Motoyoshi(1), M Matsumoto(2), H Maruyama(3), M Majima(1), H Kitasato(1)
(1) Department of Microbiology, School of Allied Health Sciences Kitasato University, Japan, (2) Department of Pathology, School of Allied Health Sciences Kitasato University, Japan, (3) Department of Pharmacology, School of Medicine Kitasato University, Japan

GA09.13 (O/P) ROLE OF PROSTAGLANDINS IN ENHANCEMENT OF TUMOR-ASSOCIATED ANGIGENESIS AND TUMOR GROWTH
Masataka Majima, H Amano, T Suzuki, K Hosono
Department of Pharmacology, Kitasato University School of Medicine, Japan

GA09.14 VASCULAR ADVENTITIAL FIBROBLASTIC CELLS IN GASTROINTESTINAL CARCINOMAS
Hirofumi Nakayama(1), H Enzan(2), E Miyazaki(3), M Hiroi(3), M Toi(3), N Kuroda(4), W Yasui(5)
(1) Departments of Pathology and Laboratory Medicine, Hiroshima General Hospital of West Japan Railway Company, Japan, (2) Department of Pathology, Chikamori Hospital, Japan, (3) Department of Diagnostic Pathology, Kochi Medical School Hospital, Kochi University, Japan, (4) Department of Diagnostic Pathology, Kochi Red Cross Hospital, Japan, (5) Department of Molecular Pathology, Hiroshima University Graduate School of Biomedical Sciences, Japan

GA09.15 (O/P) LOSS OF IKKβ ACTIVITY INCREASES P53 STABILITY LEADING TO CELL CYCLE ARREST AND APOPTOSIS
Ching-Chow Chen
Department of Pharmacology, College of Medicine, National Taiwan University, Taiwan

GA09.16 (O/P) BREAST CANCER METASTASIS IS AN ACTIVE PROCESS THAT UTILIZES MIGRATORY PATHWAY OF IMMUNE CELLS TO HOME INTO INFAMED LUNGS
Arya Biragyn
Immunotherapeutics Unit, National Institute on Aging, USA
GA09.17 (O/P) PREFERENTIAL PRODUCTION OF IL-17 BY TUMOR-INFILTRATING γδ T CELLS ENHANCES ANGIOGENESIS AND TUMOR GROWTH
Daiko Wakita(1), T Nishimura(2)
(1) Division of Immunoregulation, Institute for Genetic Medicine, Hokkaido University, Japan, (2) Division of Immunoregulation ROYCE’ Health Bioscience, Institute for Genetic Medicine, Hokkaido University, Japan

GA10. Drug Discovery: Molecular Targets, Drug Screening, Drug Design, Informatics, Molecular Library, Genetics and Genomics, Devices

GA10.1 CELL-SPECIFIC DRUG DELIVERY BY TARGETING OF C-TYPE LECTIN RECEPTORS USING SYNTHETIC CARBOHYDRATE LIGANDS
Bernd Lepenies(1), S Boonyarattanakalin(2), X Liu(3), R Kikkeri(4), A Adibekian(4), P Laurino(4), M Michieletti(4), PH Seeberger(1)
(1) Biomolecular Systems, Max Planck Institute of Colloids and Interfaces, Germany, (2) Sirindhorn International Institute of Technology, Thammasat University, Pathumthani, Thailand, (3) Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA, USA, (4) Laboratory for Organic Chemistry, Swiss Federal Institute of Technology (ETH) Zurich, Switzerland

GA10.2 KMUP-1 AMELIORATES MONOCROTALINE-INDUCED PULMONARY ARTERIAL HYPERTENSION INVOLVED THE RHO-KINASE AND K⁺-CHANNEL MECHANISMS
Bin-Nan Wu(1), S-L Hsieh(2), Y-J Cheng(1), Z-K Dai(3), L-M An(1), I-J Chen(1)
(1) Department of Pharmacology, Kaohsiung Medical University, Taiwan, (2) Department of Pharmacy, Kaohsiung Medical University Hospital, Taiwan, (3) Division of Pediatric Pulmonology and Cardiology, Kaohsiung Medical University Hospital, Taiwan

GA10.3 (O/P) IDENTIFICATION OF CELL SURFACE MARKERS EXPRESSED IN PLURIPOTENT EMBRYONIC STEM CELLS
Atsushi Intoh(1), A Kunisaki(2), H Sugino(2), M Asashima(1)
(1) Graduate School of Arts and Sciences, The University of Tokyo, Japan, (2) Organ Development Research Laboratory, National Institute of Advanced Industrial Science and Technology (AIST), Japan

GA10.4 ANTI-INFLAMMATORY 2-BENZOYLAMINOBENZOATE ANALOGUES: A STRUCTURE-ACTIVITY RELATIONSHIPS STUDY
Pei-Wen Hsieh, T-L Hwang, H-H Wang, W-Y Chang
Graduate Institute of Natural Products, Chang Gung University, Taiwan

GA10.5 EUGENOL AND ISOEUGENOL DERIVATIVES SUPPRESS CYCLOOXYGENASE-2 AND INDUCIBLE NITRIC OXIDE SYNTHASE EXPRESSION IN LIPOPOLYSACCHARIDE-ACTIVATED MACROPHAGES RAW264.7 CELLS
Jwu-Lai Yeh(1), Y-S Hong(1), S-F Liou(2), L-Y Chen(1), B-N Wu(1), I-J Chen(1)
(1) Department of Pharmacology, Kaohsiung Medical University, Taiwan, (2) Department of Pharmacy, Chia-Nan University of Pharmacy and Science, Tainan, Taiwan

GA10.7 ANTI-INFLAMMATORY EFFECTS OF THE CYCLOOXYGENASE-2 (COX-2) AND 5-LIPOOXYGENASE (5-LOX) DUAL INHIBITOR CX9051 IN HUMAN THP-1 MACROPHAGES
Chiuang-Hua Huang, J-W Chern
School of Pharmacy, College of Medicine, National Taiwan University, Taiwan
GA10.8  NUCLEAR TARGETED INHIBITION OF NF-KAPPA B ON MMP-9 PRODUCTION BY EKS IN HUMAN MONOCYTE
Yu-Wen Cheng(1), Y-C Chou(2), F-L Lin(2), Y-H Kuo(3), G Hsiao(2)
(1) Department of Pharmacy, Taipei Medical University, Taiwan, (2) Department of Pharmacology, Graduate Institute of Medical Sciences, Taipei Medical University, Taiwan, (3) Department of Chemistry, National Taiwan University, Taiwan

GA10.9 (O/P) DISCOVERY OF NOVEL BORON CONTAINING COMPOUNDS AS DUAL INHIBITORS OF TNF-α AND IL-23 RELEASE
(1) Medicinal Chemistry, Anacor Pharmaceuticals, USA, (2) Program Management, Anacor Pharmaceuticals, USA, (3) NAEJA Pharmaceuticals, Canada, (4) Pharmacology, Anacor Pharmaceuticals, USA

GA11. Natural Products

GA11.01 EFFECTS OF SILKWORM COCOON’S FIBROIN PATCH CONTAINING EXTRACT OF ALOE GEL
Jarupa Viyoch, P Inpanya, A Ounaroon
Faculty of Pharmaceutical Sciences, Naresuan University, Thailand

GA11.02 ANTI-INFLAMMATORY ACTIVITY OF FLAVOKAWAIN B, A NATURALLY-OCcurring 2’-HYDROXYCHALCONE ISOLATED FROM RHIZOMES OF ALPINIA ZERUMBET (ZINGIBERACEAE)
Syahida Ahmad(1), DAI Ali(2), NH Lajis(3), K Shaari(3), D Permana(4)
(1) Department of Biochemistry, University Putra Malaysia, Malaysia, (2) Department of Biomedicine, Faculty of Medicine & Health Sciences, UPM, Malaysia, (3) Institute of Bioscience, UPM, Malaysia, (4) Department of Medicine, Yarsi University, Indonesia

GA11.03 MECHANISMS OF LIGUSTICUM CHUANXIONG (LCX) EXTRACTS IN THE SUPPRESSION OF PROINFLAMMATORY CYTOKINE EXPRESSIONS IN BLOOD MACROPHAGES
Terry Cho Tsun Or, C Yang, B Cheung, A Lau
Department of Paediatrics and Adolescent Medicine, The University of Hong Kong, Hong Kong, China

GA11.04 (O/P) ANTI-INFLAMMATORY AND ANTIATHEROGENIC EFFECTS OF THE NF-κB INHIBITOR ACETYL-11-KETO-β-BOSWELLIC ACID IN LPS-CHALLENGED APOE-DEFICIENT MICE
Thomas Simmet(1), T Syrovets(1), C Cuaz-Perolin(2), L Billiet(2), E Bauge(3), C Copin(3), B Buechele(1), M Rouis(2), T Simmet(1)
(1) Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Germany, (2) UMR-7079, Universite Pierre and Marie Curie, Paris, France, (3) INSERM, U-545, Lille, France

GA11.05 (O/P) THE ISOPRENOID GERANYLGERANIOL SUPPRESSES LPS INFLAMMATION IN RAT BY DOWN REGULATING SIGNALING MOLECULES DOWNSTREAM OF TLR4
Puspo Edi Giriwono(1), Y Ohsaki(1), H Shirakawa(1), S Hata(2), H Kuriyama(2), S Sato(1), T Goto(1), M Komai(1)
(1) Laboratory of Nutrition, Graduate School of Agricultural Sciences, Tohoku University, Japan, (2) Tama Biochemical Co., Ltd., Japan
GA11.06 EVALUATION OF FOUR βGLUCANS ENRICHED PARTICLES ON THE HUMAN IMMUNE SYSTEM
Marc Dubourdeau(1), G Chene(1), C Guigne(1), M Baulez(2), H Durand(2)
(1) Ambiotis SAS, France, (2) Lallemand Nutrition Division, France

GA11.07 NATURAL PLANT PRODUCTS MODULATE INNATE IMMUNITY VIA TLRs
Hiroe Honda(1), Y Nagai(2), K Miyake(3), K Takatsu(1), (2)
(1) Toyama Prefectural Institute for Pharmaceutical Research, Japan, (2) Department of Immunobiology and Pharmacological, Graduate School of Medicine and Pharmaceutical Sciences for Research, University of Toyama, Japan, (3) Division of Infectious Genetics, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Japan

GA11.08 ANTI-INFLAMMATORY NATURAL POLYAMINES DECREASE AGE-ASSOCIATED PATHOLOGIES AND PROLONG MURINE LONGEVITY
Yoshihiko Kano(1), K Soda(1), Y Dobashi(2), F Konishi(1)
(1) Department of Surgery, Saitama Medical Center, Jichi Medical University, Japan,
(2) Department of Pathology, Saitama Medical Center, Jichi Medical University Japan

GA11.09 SAN-HUANG-XIE-XIN-TANG INHIBITS INFLAMMATION, OXIDATIVE STRESS AND APOPTOSIS IN RAT PRIMARY CULTURED MICROGLIA AND NEURON
Yi-Ching Lo(1), Y-T Shih(2)
(1) Department of Pharmacology, Kaohsiung Medical University, Taiwan, (2) Graduate Institute of Natural Products, Kaohsiung Medical University, Taiwan

GA11.10 SYNTHESIS OF DNS-LYSYL LIPOATE AND APPLICATION FOR LIPOAMIDE ASSAY IN TISSUES
Seitichi Matsugo(1), M Wang(2), N Wada(1), M Rahman(2), T Konishi(2)
(1) School of Natural System, College of Science and Engineering, Kanazawa University, Japan, (2) Niigata University of Pharmacy and Applied Life Sciences, Japan

GA11.11 (O/P) SAUCERNEOL D, ISOLATED FROM SAURURUS CHINENSIS INHIBITS LPS-INDUCED INOS EXPRESSION BY BLOCKING NF-κB AND MAP KINASES ACTIVATION IN RAW264.7 CELLS
Hyeun Wook Chang, C-S Seo, J-K Son
College of Pharmacy, Yeungnam University, Korea

GA11.12 THE NATURALLY OCCURRING FLAVOLIGNAN, DEOXYPODOPHYLLOTOXIN, INHIBITS MIGRATION AND MMP-9 VIA MAPK PATHWAYS IN TNF-ALPHA-INDUCED HASMC
Hyeun Wook Chang(1), S-J Suh(2), SH Lee(1), C-H Kim(2)
(1) College of Pharmacy, Yeungnam University, Korea, (2) Department of Biological Science, Sungkyunkwan University, Korea.

GA11.13 (O/P) EFFECTS OF ARECOLINE, THE MAIN ALKALOID OF ARECA NUT, ON MICROGLIA AND NEURONAL CELLS
Yu-Tzu Shih(1), C-H Wu(2), H-H Tsai(3), Y-Y Hsu(3), Y-C Lo(2)
(1) Graduate Institute of Natural Products, Kaohsiung Medical University, Taiwan, (2) Department of Pharmacology, Kaohsiung Medical University, Taiwan, (3) Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan

GA11.14 6-HYDROXYCLERODA-3,13-DIEN-15,16-OLIDE ATTENUATES LIPOPOLYSACCHARIDE-INDUCED INFLAMMATION IN MICROGLIA
Ya-Yun Hsu(1), Y-T Shih(2), H-H Tsai(1), Y-C Lo(3)
(1) Graduate Institute of Medicine, Kaohsiung Medical University, Taiwan, (2) Graduate Institute of Natural Products Kaohsiung Medical University Taiwan, (3) Department of Pharmacology Kaohsiung Medical University Taiwan
**GA11.15**

NEUROPROTECTIVE MECHANISMS OF PUERARIN IN MIDDLE CEREBRAL ARTERY OCCLUSION-INDUCED BRAIN INFARCTION IN RATS

Joen Rong Sheu  
Department of Pharmacology, Taipei Medical University, Taiwan

**GA11.16 (O/P)**

NOVEL CHALCONE JSH 4-4 INHIBITS NF-KB ACTIVATION AND NF-KB-REGULATED INFLAMMATORY GENE TRANSCRIPTION IN LPS-ACTIVATED MACROPHAGES

Youngsoo Kim(1), R Eunmiri(2), L Hong Kyung(1), Y Jun Ho(1), L In Jeong(1), H Sang-Bae(1), K Youngsoo(1)  
(1) College of Pharmacy, Chungbuk National University, Korea, (2) College of Pharmacy & CBITRC, Chungbuk National University, Korea

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**GA12. Clinical Tests: Biomarkers, Bio-imaging, Epigenetics, SNP, Gene Expression**

**GA12.1 (O/P)**

ASSOCIATION OF POLYMORPHISMS IN FC GAMMA RECEPTOR GENE WITH RHEUMATOID ARTHRITIS. A META-ANALYSIS

Seung-Woo Han(1), W-K Lee(2), G-W Kim(1), J-W Choi(1)  
(1) Department of Internal Medicine, Daegu Fitima Hospital, Korea, (2) Preventive Medicine, School of Medicine, Kyungpook National University, Daegu, Korea

**GA12.2 (O/P)**

COMPARATIVE STUDY OF FENOFRIBRATE AND STATIN FOR THE TREATMENT OF DYSLIPIDAEMIA IN RHEUMATOID ARTHRITIS

Makoto Goto  
Department of BioMedical Engineering, Toin University of Yokohama, Japan

**GA12.3**

POLARIZATION SPECTROSCOPY FOR ASSESSMENT OF INFLAMMATORY SKIN REACTIONS

Lars J. Petersen(1), AM Lyngholm(1), HD Zacho(1), L Arendt-Nielsen(2)  
(1) Department of Clinical Physiology, Viborg Hospital, Denmark, (2) Center for Sensory-Motor Interaction, Aalborg University, Aalborg, Denmark

**GA12.4**

GENE EXPRESSION OF HUMAN EPIDERMAL GROWTH FACTOR IN ESCHERICHIA COLI

Wen-Tung Wu(1), M-J Hsu(2)  
(1) Department of Biotechnology, Yung-Ta Institute of Technology and Commerce, Taiwan, (2) Department of Pharmacology, Taipei Medical University, Taipei, Taiwan

**GA12.5 (O/P)**

INCREASED PHAGOCYTOSIS OF PLATELETS FROM PATIENTS WITH SECONDARY DENGUE VIRUS INFECTION BY HUMAN MACROPHAGES

Maria Terrese Galvez Alonzo(1), S Honda(2), M Saito(3), EM Dimaano(4), RR Matias(5), FF Natividad(5), K Oishi(1)  
(1) International Research Center for Infectious Diseases, Research Institute for Microbial Diseases, Osaka University, Japan, (2) Nagasaki University Infection Control and Education Center, Japan, (3) Department of Virology, Tohoku University Graduate School of Medicine, Japan, (4) San Lazaro Hospital, Manila, Philippines, (5) Research and Biotechnology Division, St. Luke’s Medical Center, Quezon City, Philippines

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**GA13. Action Mechanisms of Anti-inflammatory Drugs**

**GA13.1**

THE MECHANISM OF ACTION (MOA) OF A CCR2 TARGETING FUSION PROTEIN

John R McDonald(1), LM McIntosh(1), H Su(1), BK Finck(2)  
(1) Science and IP, Osprey Pharmaceuticals Ltd, Canada, (2) Osprey Pharmaceuticals USA Inc., USA
GA13.2 AUROTHIOMALATE INHIBITS COX-2 EXPRESSION AND PGE\(_2\) PRODUCTION IN CHONDROCYTES BY INCREASING MKP-1 EXPRESSION AND DECREASING P38 PHOSPHORYLATION
Riina Nieminen, R Korhonen, E Moilanen
*Medical School, Immunopharmacology, University of Tampere, Finland*

GA13.3 (O/P) CALCINEURIN INHIBITORS DOWN-REGULATE INOS EXPRESSION BY DESTABILISING MRNA
Mari Johanna Hamalainen, R Korhonen, E Moilanen
*The Immunopharmacology Research Group, Medical School, and Tampere University Hospital Research Unit, University of Tampere, Finland*

GA13.4 INCREASED HUMAN VASCULAR REACTIVITY VIA CYCLOOXYGENASE-2 INHIBITION DURING ACUTE INFLAMMATION: ROLE OF PROSTAGLANDINS E\(_2\) AND I\(_2\)
Nabil Foudi(1), T Cachina(2), L Louedec(2), X Norel(2)
(1) INSERM U698 - X. Bichat Hospital, Paris and Paris XIII University, Villetaneuse, France, (2) INSERM U698 - X. Bichat Hospital, Paris, France

GA13.5 (O/P) DIFFERENTIAL REQUIREMENT FOR FC RECEPTORS TO NEUTRALIZE HUMAN TLR2 BY A MOUSE IGG1 MONOCLONAL ANTIBODY AND ITS HUMAN IGG1&IGG4 COUNTERPARTS
Jerome Dellacasagrande, D Boylan, G Donnelly, A Dunne, F Janda, B Keogh, W McCormack, P McGuirk, G McManus
*OPSONA Therapeutics Ltd, Ireland*

GA13.6 ANTI-INFLAMMATORY ACTIONS OF SYK INHIBITORS IN MACROPHAGES INVOLVE NON-SPECIFIC INHIBITION OF TOLL LIKE RECEPTORS-MEDIATED JNK SIGNALING PATHWAY
Ying-Cing Lin(1), W-W Lin(1), D-Y Huang(1), C-L Chu(2)
(1) Department of Pharmacology, National Taiwan University College of Medicine, Taiwan, (2) Vaccine Research and Development Center, NHRI, Miaoli County, Taiwan

GA13.7 A NOVEL ANTI-INFLAMMATORY ROLE FOR ANDROGRAPHOLIDE IN ASTHMA VIA INHIBITION OF THE NUCLEAR FACTOR-KAPPAB PATHWAY
Wai Shiu Fred Wong(1), Z Bao(1), S Guan(1), C Cheng(1), DM Kemeny(2), BP Leung(3)
(1) Department of Pharmacology, National University of Singapore, Singapore, (2) Department of Microbiology, National University of Singapore, Singapore, (3) Department of Physiology, National University of Singapore, Singapore

GA13.8 DIMETHYLFUMARATE INHIBITS MACROPHAGE INHIBITORY FACTOR (MIF) INDUCED PROLIFERATION OF KERATINOCYTES
Borbala Gesser, M K Rasmussen, C Rosada, C Johansen, RB Kjellerup, K Kragballe, L Iversen
*Department of Dermatology, Aarhus University Hospital, Denmark*

GA13.9 IMMUNOLOGICAL REGULATION MECHANISM OF EPIGALLOCATECHIN-3-GALLATE ON COLLAGEN-INDUCED ARTHRITIS
Hong Nie(1), D He(2), X Tang(3), Y Wang(3), X Zhang(3)
(1) Shanghai Institute of Immunology, China, (2) Guanghua Rheumatology Hospital, Shanghai, China, (3) Shanghai Institute of Immunology, China

GA14. Development of Novel Therapeutics

GA14.01 (O/P) OVEREXPRESSION OF GRIM19 IN CANCER CELLS SUPPRESSES STAT3-MEDIATED SIGNAL TRANSDUCTION AND CANCER GROWTH
Naotaka Shibagaki, T Okamoto, M Kanzaki, S Shimada
*Department of Dermatology, University of Yamanashi, Faculty of Medicine, Japan*
GA14.02 COMBINE DEXTROMETHORPHAN AND MORPHINE ON TREATMENT OF CARRAGEENAN INDUCED INFLAMMATION AND PAIN IN RATS
Pao-Luh Tao, W-K Chang, E Y-K Huang
Department of Pharmacology, National Defense Medical Center, Taiwan

GA14.03 (O/P) A NOVEL THERAPEUTIC APPROACH FOR INFLAMMATORY BOWEL DISEASES USING A COMPLEX OF ANTISENSE MACROPHAGE MIGRATION INHIBITORY FACTOR AND SCHIZOPHYLLAN
Jun Nishihira(1), Y Koyama(1), H Takeda(2), K Mitsuyama(3), Y Fujiyama(4), K Sakurai(5)
(1) Department of Medical Management and Informatics, Hokkaido Information University, Japan, (2) Faculty of Pharmaceutical Sciences, Hokkaido University, Japan, (3) Division of Gastroenterology, Kurume University School of Medicine, Japan, (4) Division of Gastroenterology, Shiga University School of Medicine, Japan, (5) Department of Chemical Processes and Environments, The University of Kitakyushu, Japan

GA14.04 ENHANCEMENT OF ANTITUMOR RADIATION EFFICACY AND THE ABSCopAL EFFECT BY ECI301- MEDIATED TLR4 DEPENDENT INNATE IMMUNITY IN MICE
Kenshiro Shiraishi(1), S Yokochi(2), Y Ishiwata(2), K Nakagawa(1), S Kanegasaki(3), K Matsushima(4)
(1) Department of Radiology, University of Tokyo Hospital, University of Tokyo, Japan, (2) The 2nd Department of Research, ECI, Inc., Japan, (3) ECI, Inc., Japan, (4) Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan

GA14.05 PHARMACOLOGICAL IMPLICATIONS OF ALPHA7-AGONISTS IN SEPSIS
Weihong Dong, F Chen, B Cai, L Ulloa
Surgery, UMDNJ-New Jersey Medical School, USA

GA14.06 THERAPEUTIC EVALUATION OF COLD PLASMA (CP) IN DEXTRAN SULFATE (DSS) MODEL OF COLITIS IN MICE
Sreekant Murthy(1), KC Lnu(2), G Fridman(2), D Dobrynin(2)
(1) Department of Gastroenterology, Drexel University, USA, (2) Drexel University College of Engineering and School of Biomedical Engineering, Drexel University, Philadelphia, PA, USA

GA14.07 (O/P) FINGOLIMOD (FTY720), SPHINGOSINE 1-PHOSPHATE RECEPTOR MODULATOR, AMELIORATES EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS (EAE) IN MICE
Hirotoshi Kataoka, N Seki, K Shiman, Y Maeda, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan

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Noriyasu Seki, Y Maeda, H Kataoka, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma Corporation, Japan

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Yasuhiro Maeda, N Sato, N Seki, K Sugahara, T Sugita, K Chiba
Pharmacology, Research Division, Mitsubishi Tanabe Pharma, Japan

GA14.10 [WITHDRAWN]
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Nicolas Mercado, PJ Barnes, K Ito
Airway Disease, Imperial College London, UK and Northern Ireland

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Cristina Bichels Hebeda(1), RM Soares(1), DMH Cavalcanti(1), S Galdino(2), I Pitta(2), SHP Farsky(3)
(1) Department of Clinical and Toxicological Analyses, University of Sao Paulo, Brazil,
(2) Department of Antibiotics, University of Pernambuco, Brazil, (3) Department of Clinical and Toxicological Analyses, University of Sao Paulo, Brazil

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James D Winkler, D Wright, J Pheneger, P Lee, K Litwiler, S Brown, L Carter, K Koch, S Rojas-Caro
Array BioPharma Inc., USA

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Kevin Koch, KS Bouhana, Y Jiang, DP Hartley, M Geck Do, SW Andrews
Array BioPharma Inc., USA

[WITHDRAWN]

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Kazuo Yudoh(1), R Karasawa(1), K Shishido(2), M Yano(2), H Aoshima(3), H Taira(3), S Yamana(3)
(1) Institute of Medical Science, St. Marianna University School of Medicine, Japan,
(2) Mitsubishi Corporation, Japan, (3) Vitamin C60 BioResearch Corporation

THE IMMUNE RESPONSE IN STRENOUS RESISTIVE BREATHING AND WHOLE BODY EXERCISE IS ALTERED BY ANTIOXIDANTS
Paraskevi Katsaounou, D Toumpanakis, M Karatza, C Roussos, S Zakynthinos, T Vassilakopoulos
Critical Care Department, Evangelismos Hospital, Greece

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Shigehisa Aoki(1), T Takezawa(2), K Nagase(1), M Yamasaki(3), F Yamasaki(1),
K Uchihashi(1), H Sugihara(4), S Toda(1)
(1) Department of Pathology & Microbiology, Faculty of Medicine, Saga University, Japan,
(2) Transgenic Animal Research Center, National Institute of Agrobiological Sciences, Japan,
(3) Mineko Skin Clinic, Japan, (4) Department of Pathology, International University of Health and Welfare, Japan
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Tomoko Yoshida(1), M Komaki(1), I Morita(2), M Abe(1)
(1) Department of Nanomedicine(DNP), Tokyo Medical and Dental University Graduate School, Japan, (2) Department of Cellular Physiological Chemistry, Tokyo Medical and Dental University Graduate School, Japan

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Katsuyuki Yamanaka, K Yamamoto, Y Suda, Y Sakai, T Kaneko, T Sakuma
Research & Development Department, GC Corporation, Japan

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Atsuko Masumi, H Hamaguchi, T Mizukami, M Kuramitsu, H Momose, K Takizawa, K Yamaguchi
Department of Safety Research on Blood and Biological Products, National Institute of Infectious Diseases, Japan

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Yu Kimura, Y Tabata
Department of Biomaterials, Field of Tissue Engineering, Institute for Frontier Medical Sciences, Kyoto University, Japan

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Yasuhiro Tabata, R Takaoka, T Tanigo
Institute for Frontier Medical Sciences, Kyoto University, Japan

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Jim Middleton(1), G Chamberlain(1), K Wright(1), A Rot(2)
(1) Medical School, RJAH Orthopaedic Hospital, Keele University, UK, (2) Novartis Research Institute, Vienna, Austria

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Naoya Fujino(1), T Suzuki(2), AE Hegab(1), M He(1), M Yamaya(1), H Kubo(1)
(1) Department of Advanced Preventive Medicine for Infectious Diseases and Regenerative Medicine, Tohoku University School of Medicine, Japan, (2) Department of Thoracic Surgery, Institute of Development, Aging and Cancer, Tohoku University, Japan

GA15.10 (O/P) NEW PRESERVATION SOLUTION FOR ENDOGENOUS TISSUE STEM CELLS
Takaya Suzuki(1), H Kubo(2), N Fujino(2), HA Ahmad(2), M He(2), M Yamaya(2), T Kondo(1)
(1) Thoracic Surgery, Institute of Development, Aging and Cancer, Tohoku University, Japan, (2) Department of APMID, and Regenerative Medicine, Tohoku University School of Medicine, Japan

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Takeshi Amemiya(1), T Nakamura(2), K Adachi(1), T Yamamoto(1), S Kinoshita(2), N Kanamura(1)
(1) Dental Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan, (2) Ophthalmology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Japan
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Sirintip Intarapasit(1), J Viyoch(2)
(1) Pharmacy Practice, Naresuan University, Thailand, (2) Pharmaceutical Technology, Faculty of Pharmaceutical Sciences, Naresuan University, Thailand

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Tetsu Nishiwaki, K Matsushima
Department of Molecular Preventive Medicine, School of Medicine, University of Tokyo, Japan

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Tomoaki Iwayama(1), T Hashikawa(1), Y Shimabukuro(1), M Ozasa(1), Y Shibata(2), Y Abiko(2), H Komoda(3), A Matsuyama(3), Y Sawa(3), S Murakami(1)
(1) Department of Periodontology, Osaka University Graduate School of Dentistry, Japan, (2) Department of Biochemistry, Nihon University Graduate School of Dentistry at Matsudo, Japan, (3) Osaka University Medical Hospital, Japan

GA15.15  THE ROLES OF ENDOGENOUS ADENOSINE IN OSTEOBLAST DIFFERENTIATION
Hiroyuki Oohara, M Takedachi, S Murakami
Department of Periodontology, Osaka University Graduate School of Dentistry, Japan

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Taro Matsumoto(1), K Kano(2), N Fukuda(3), M Jumabay(1), A Hirayama(4), S Takahashi(5), H Mugishima(6), Y Iribe(1), M Odaka(6), C Noro(1), M Wada(6)
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Takushi Tauchi, S Yamada, C Fujihara, T Kajikawa, Y Ozawa, S Murakami
Department of Periodontology, Osaka University Graduate School of Dentistry, Japan

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Masaki Hata(1), K Naruse(2), Y Kobayashi(2), N Kojima(1), S Ozawa(1), K Naruse(3), Y Tanaka(1), T Matsubara(2)
(1) Department of Removable Prosthodontics, School of Dentistry, Aichi Gakuin University, Japan, (2) Department of Internal Medicine, School of Dentistry, Aichi Gakuin University, Japan, (3) Department of Cardiovascular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Japan
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Takafumi Kawanami(1), Y Matsuzaki(2), T Sawaki(1), T Sakai(1), H Iwao(1), A Nakajima(1), M Miki(1), Z-X Jin(1), M Tanaka(1), Y Masaki(1), T Fukushima(1), H Umehara(1)
(1) Department of Hematology and Immunology, Kanazawa Medical University, Japan, (2) Department of Physiology, School of Medicine, Keio University, Japan

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Mio Nakanishi(1), A Kurisaki(2), Y Hayashi(1), M Warashina(3), S Ishiura(1), MK Furue(4), M Asashima(1)
(1) Department of Life Sciences (Biology), Graduate School of Arts and Sciences, The University of Tokyo, Japan, (2) Organ Development Research Laboratory, National Institute of Advanced Industrial Science and Technology, Ibaraki, Japan, (3) Genome Research Laboratories, Wako Pure Chemical Industries, Ltd., Hyogo, Japan, (4) Division of Bioresources, National Institute of Biomedical Innovation, Osaka, Japan

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Yuji Hodo, T Yamashita, K Nio, M Honda, S Kaneko
Kanazawa University, Japan

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Shintaro Kato(1), H Amano(2), Y Matsui(2), Y Ito(3), N Aoyama(4), Y Sato(2), T Izumi(4), M Majima(1)
(1) Department of Pharmacology, Kitasato University School of Medicine, Japan, (2) Department of Thoracic Surgery, Kitasato University School of Medicine, Japan, (3) Department of Surgery, Kitasato University School of Medicine, Japan, (4) Department of Cardiology, Kitasato University School of Medicine, Japan

GA15.23 (O/P)  THE EFFECT OF HYPOXIC CULTURE ON CULTIVATED CORNEAL LIMBAL EPITHELIAL CELL SHEETS
Hideyuki Miyashita, S Shimmura, M Kubota, K Tsubota
Ophthalmology, Keio University School of Medicine, Japan

GA16. Others

GA16.1  DESIGN AND PREPARATION OF MAGNETIC RESONANCE IMAGING CONTRAST AGENT FOR ANGIOGENIC THERAPY
Jun-ichiro Jo(1), X Lin(1), I Aoki(2), Y Tabata(1)
(1) Department of Biomaterials, Institute for Frontier Medical Sciences, Kyoto University, Japan, (2) Biophysics Group, Molecular Imaging Center (MIC), National Institute of Radiological Sciences (NIRS), Japan

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Christian Groenhoej Larsen(1), PH Andersen(2), H Egekvist(3), H Lorenzen(4), CCO Zachariae(5), THuld-Nystrom(6), LK Dutterud(7), R Lindkvist(8), S Qvitzau(8)
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Hyun Lim(1), JH Jin(1), H Park(1), HW Chang(2), HP Kim(1)
(1) College of Pharmacy, Kangwon National University, Korea, (2) College of Pharmacy, Yeungnam University, Korea

GA16.5 DE- AND/OR TRANS-DIFFERENTIATION OF ACUTE MYELOID LEUKEMIA CELL LINE TF-1 CELLS THROUGH THEIR ADHESION TO THE MS-5 STROMAL CELLS
Keiji Funayama, M Shimane, H Nomura, S Asano
Department of Integrative Bioscience and Biomedical Engineering, Waseda University, Japan

GA16.7 THE DEVELOPMENT OF NOVEL NF-KB DECOY ODN COATED INTERCONNECTED POROUS HYDROXYAPATITE
Tetsuya Tomita, D Morimoto, Y Kunugiza, S Kuroda, H Yoshikawa
Department of Orthopaedics, Osaka University Graduate School of Medicine, Japan
June 25-29, 2011
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2009年5月作成A4
【禁 忌（次の患者には投与しないこと）】
1. 本剤の成分に対し過敏症の既往歴のある患者
2. 妊娠又は妊娠している可能性のある婦人

【効能又は効果】
高血圧
【用法及び用量】
通常、成人でランサルシンとして40〜80mgを1日1回経口投与する。
必要に応じて経験に基づいて増量するが、1日160mgまでである。

【使用上の注意（一部抜粋）】
1. 投与開始時の注意に留意すること
   1) 副作用、禁忌、注意点、使用方法についての説明
   2) 副作用、禁忌、注意点、使用方法についての説明

2. 重要な注意
   1) 副作用、禁忌、注意点、使用方法についての説明
   2) 副作用、禁忌、注意点、使用方法についての説明

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「食欲」を科学する

食欲不振、胃炎、消化不良に
(食欲不振改善) 漢方製剤

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ツムラ六君子湯

食欲増進作用をもつヘプチド（Chrelin（クレリン）の分解改善作用（ラクト））

使用上の注意（抜粋）

1. 重要な基本的注意
（1）本剤の使用にあたっては、患者の証（体質・症状）を考慮して投与すること。なお、経過を十分に観察し、症状・所見の改善が認められない場合には、継続投与を避けること。（2）本剤には薬物が含まれているので、血清カリウム値や血圧値等に十分留意し、異常が認められた場合には投与を中止すること。（3）他の漢方製剤等を併用する場合は、含有薬品の重複に注意すること。

2. 相互作用 併用注意（併用に注意すること）

副作用

副作用は使用成績調査等の副作用発見頻度が明確となる調査を実施していないため、発見頻度は不明である。（1）重大な副作用 1）傷アルドステロン症：低カリウム血症、血圧上昇、ナトリウム・体液の貯留、浮腫、体液増加等の傷アルドステロン症があらわれることがあるので、観察（血清カリウム値の測定等）を十分に行い、異常が認められた場合には投与を中止し、カリウム剤の投与等の適切な処置を行うこと。2）ミオパシー：低カリウム血症の結果としてミオパシーがあらわれることがあるので、観察を十分に行い、强度、四肢痛、麻痺などの異常が認められた場合には投与を中止し、適切な処置を行うこと。

文献

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（2008年11月制作）

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