



FRONTIERS IN IMMUNOLOGY RESEARCH NETWORK

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11th FRONTIERS IN IMMUNOLOGY RESEARCH NETWORK (FIRN) INTERNATIONAL CONFERENCE

Lugano, Switzerland
Hotel De La Paix, July 1-4, 2018

SUBJECT CATEGORIES (scroll down)
SCHEDULE (scroll down)
INSTRUCTIONS TO PROGRAM PARTICIPANTS (scroll down)
PROGRAM SESSIONS, OBSERVERS & RECOMMENDED ACTIVITIES, (scroll down)

SUBJECT CATEGORIES

- Allergy and immunopathology
 - Antigen presentation
 - Autoimmunity
 - B cells
 - Cellular immunology
 - Cytokines, chemokines, inflammation
 - Dendritic cells
 - Diabetes
 - Imaging at the molecular, cellular or animal level
 - Immune responses to infectious diseases
 - Immunogenetics and gene discovery
 - Immunotherapy
 - Innate immunity
 - In silico modelling
 - Knockout and knock-in studies
 - Lymphocyte activation and homing
 - Lymphocyte differentiation and migration
 - Mechanisms of cell death
 - Molecular immunology
 - Mucosal immunology SIG
 - NK cells
 - NKT and T regulatory cells
 - Plasmon resonance
 - Protein crystallography
 - Science communication - BD award session
 - Signal transduction
 - Stem cells
 - T cell biology
 - The immune response to viral infections
 - The MHC and its interactions
 - Tolerance
 - Transplantation
 - Tumour immunology
 - Vaccine development
 - Veterinary immunology SIG
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**11th Frontiers in immunology Research Network (FIRN) International Conference
Lugano, Switzerland, July 1-4, 2018**

SCHEDULE OF MEETINGS & ACTIVITIES (subject to change) *

***All excursions at extra cost**

<p>Saturday, JUNE 30, 2018</p> <p>Pre-Conference Day-Long Recommended Excursion: Bellinzona</p> <p>Registration: 5:00 PM – 6:00 PM</p>
<p>Sunday, JULY 1, 2018</p> <p>Registration (9:00 AM – 3:30 PM) Sessions (10:30 AM – 12:15 PM) Welcome Reception with Lunch (12:15 PM – 1:15 PM) Sessions (1:30 PM – 3:15 PM)</p> <p>Half-Day Recommended Excursion (after sessions): San Salvatore Mountain</p>
<p>Monday, JULY 2, 2018</p> <p>Registration (8:00 AM – 1:30 PM) Sessions (8:30 AM – 1:15 PM) Lunch (1:15 PM on)</p> <p>Half-Day Recommended Excursion (after sessions): Ascona & Locarno</p>
<p>Tuesday, JULY 3, 2018</p> <p>Registration (8:00 AM – 12:45 PM) Sessions (8:30 AM – 12:45 PM) Lunch (12:45 PM on)</p> <p>Half-Day Recommended Excursion (after sessions): Morcote</p>
<p>Wednesday, JULY 4, 2018</p> <p>Registration (8:30 AM – 10:00 AM) Sessions (9:00 AM – 10:00 AM)</p> <p>Half-Day Recommended Excursion (after sessions): Lake Como & Bellagio, Italy</p>
<p>Thursday, JULY 5, 2018</p> <p>Post-Conference Day-Long Recommended Excursion: Milan, Italy</p>

INSTRUCTIONS TO PROGRAM PARTICIPANTS

(a) ORAL PRESENTATIONS:

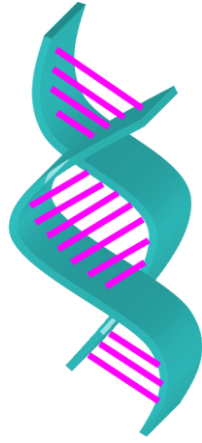
Session Time Allocations: Most sessions are 60 minutes long each with two presenters; five sessions, scheduled as featured talks, are 45 minutes long; two sessions, set up as thematic brainstorming roundtables, are 30 minutes long.

Session Moderators: Assume overall responsibility for your session. Try to contact the session participants before the meeting. Inform them that each presentation room will be equipped with flipchart and power point capability. Ask them if they have any special needs relating to their presentation and, in collaboration with the registration desk, try to satisfy those needs. Arrive at the session room 10 minutes in advance and make sure that it is in order and properly equipped. Welcome and introduce the participants. Start the session on time and adhere to the time schedule. Moderate the open discussion to the best of your ability.

Presenters: Each presenter should take no more than 30 minutes (or 45 minutes if featured); any remaining time should be devoted to questions from the audience. Stay within the allotted time even though it may not be enough! Be well prepared. Please do not just read your paper. Your presentation of main points, methods, and conclusions should lead to a fruitful discussion during and after the session. *Bring with you and make available five or more copies of your manuscript.* Every presentation room will be equipped with screens, flipcharts and power point capability (computer and projector). For Power Point presentations, please feel free to bring your own equipment and all necessary cables and transformers required by standards in Switzerland. *If the session's moderator is absent, the last presenter listed should take on the role of the moderator.*

(b) POSTER PRESENTATIONS:

- Displays and presentations have been scheduled to take place daily. Please search in the Program to find out when you present and be prepared to display prior to your presentation. After your presentation, please remove all materials that relate to your poster.
 - Posters should be prepared on heavy paper (preferably laminated), plastic, foam or other that can readily be displayed and not exceed 3ft x 4ft (36 x 48 inches). Please note that FIRN would not provide any construction materials for, or electricity to, the posters.
 - Posters should easily read from 2-3 feet away. Text should be limited to the core ideas and presented in a font size that allows one to read it with ease. Experienced poster presenters suggest 3-6 graphics to mix in with your text to make the posters more engaging. *Bring with you and make available five or more copies of your abstract and/or manuscript.*
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FRONTIERS IN IMMUNOLOGY

RESEARCH NETWORK

11th Frontiers in Immunology Research Network International Conference

Lugano, Switzerland, July 1-4, 2018

**Conference Sessions
&
Recommended Activities**

Saturday, June 30, 2018

Pre-Conference, Day-Long, Recommended Excursion:

Bellinzona



Registration:

5:00 PM – 6:00 PM

Sunday, July 1, 2018

Registration (9:00 AM – 3:30 PM)
Sessions (10:30 AM – 12:15 PM)
Welcome Reception with Lunch (12:15 PM – 1:15 PM)
Sessions (1:30 PM – 3:15 PM)

Sunday, July 1, 2018

Session [1]: 10:30 AM – 11:15 AM, FIRN Conference Room

MODERATOR

Borros Arneth

Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Hospital of the Universities
Giessen and Marburg UKGM Justus Liebig University Giessen, Germany

FEATURED TALK

Do animal trials translate to human subjects?

Halina Offner

VAPORHSC & OHSU, Portland, OR USA

Sunday, July 1, 2018

Session [2]: 11:15 AM – 12:15 PM, FIRN Conference Room

MODERATOR

Borros Arneth

Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Hospital of the Universities
Giessen and Marburg UKGM Justus Liebig University Giessen, Germany

**Irinotecan-induced leucopenia in rats:
effects of Δ^9 -tetrahydrocannabinol co-treatment**

Ljerka Prester¹, Anja Mikolić¹, Andreja Jurič¹,
Nino Fuchs², Marijana Neuberg³, Ana Lucić Vrdoljak¹,
Irena Brčić Karačonji¹

¹Institute for Medical Research and
Occupational Health, Zagreb, Croatia;

²University Hospital Centre Zagreb, Zagreb, Croatia;

³University Centre Varaždin
University North, Varaždin, Croatia.

**The endocannabinoid system as a potential
target for phytopharmacotherapy**

Ljerka Prester

Institute for Medical Research and Occupational Health
Zagreb, Croatia

Sunday, July 1, 2018

12:15 PM – 1:15 PM: Welcome Reception with Lunch

Sunday, July 1, 2018

Session [3]: 1:30 PM – 2:15 PM, FIRN Conference Room

MODERATOR

Eli C. Lewis

Department of Clinical Biochemistry & Pharmacology
Faculty of Health Sciences, Ben-Gurion University of the Negev Beer-Sheva, Israel

FEATURED TALK

**MIF and D-DT are potential disease severity
modifiers in male MS subjects**

Arthur A. Vandenberg

VAPORHSC & OHSU, Portland, OR USA

Sunday, July 1, 2018

Session [4]: 2:15 PM – 3:15 PM, FIRN Conference Room

MODERATOR

Eli C. Lewis

Department of Clinical Biochemistry & Pharmacology
Faculty of Health Sciences, Ben-Gurion University of the Negev Beer-Sheva, Israel

Sterile Inflammation and the Inflammasomes

Borros Arneth

Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Hospital of the Universities
Giessen and Marburg UKGM Justus Liebig University Giessen, Germany

**Anti-inflammatory and tissue-regenerative qualities in
alpha1-antitrypsin-derived short peptides**

**Yotam Lior¹, Efrat Shtriker², Shirin Kahremany²,
Arie Gruzman² and Eli C Lewis¹**

¹Department of Clinical Biochemistry & Pharmacology
Faculty of Health Sciences
Ben-Gurion University of the Negev, Be'er Sheva, Israel;

²Department of Chemistry
Faculty of Exact Sciences
Bar-Ilan University, Ramat-Gan, Israel.

Sunday, July 1, 2018

Half-Day Recommended Excursion (after Sessions):

San Salvatore Mountain



Monday, July 2, 2018

Registration (8:00 AM – 1:30 PM)

Sessions (8:30 AM – 1:15 PM)

Lunch (1:15 PM on)

Monday, July 2, 2018

Session [5]: 8:30 AM – 9:30 AM, FIRN Conference Room

MODERATOR

Arthur A. Vandenberg

VAPORHSC & OHSU, Portland, OR USA

Immunoinformatics studies of pollen allergen Bet v1 for prediction and characterization of IgE binding epitopes

N. Latha

Associate Professor, Department of Biochemistry & Coordinator, Bioinformatics Infrastructure Facility Sri Venkateswara College, Dhaula Kuan, New Delhi -110021, INDIA

Allogeneic skin graft survival improved by α 1-antitrypsin: role for complement C3 and dendritic cells

Omer Nisim, Boris M. Baranovski and Eli C Lewis

Department of Biochemistry and Pharmacology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel

Monday, July 2, 2018

Session [6]: 9:30 AM – 9:45 AM, FIRN Conference Room

MODERATOR

Arthur A. Vandenberg

VAPORHSC & OHSU, Portland, OR USA

FEATURED TALK

Extent of MHC clustering regulates the quality of T-cell receptor mediated signaling

Yuri Sykulev

Department of Microbiology and Immunology and Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, USA

Coffee Break: 9:45 AM – 10:15 AM

Monday, July 2, 2018

Session [7]: 10:15 AM – 11:00 AM, FIRN Conference Room

MODERATOR

Yuri Sykulev

Department of Microbiology and Immunology and Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, USA

FEATURED TALK

**Human α 1-antitrypsin modulates repopulating T cells
in a xenotransplantation model**

Boris M. Baranovski, David E. Ochayon, Peleg Rider,
Omer Nisim, Ronen Schuster and Eli C. Lewis

Department of Clinical Biochemistry & Pharmacology, Faculty of Health Sciences,
Ben-Gurion University of the Negev, Beer-Sheva, Israel

Monday, July 2, 2018

Session [8]: 11:00 AM – 12:00 Noon, FIRN Conference Room

MODERATOR

Yuri Sykulev

Department of Microbiology and Immunology and Sidney Kimmel Cancer Center,
Thomas Jefferson University, Philadelphia, USA

**Melatonin attenuates NLRP3 inflammasome
activation in LPS-primed BMDMs**

Xiao Sun¹, Do-Wan Shim¹, Tae-Bong Kang², and **Kwang-Ho Lee^{1,2}**

¹ Department of Applied Life Science, Graduate School,
Konkuk University, Chungju, Korea;

²Department of Biotechnology, College of Biomedical and Health Sciences,
Research Institute of Inflammatory Diseases,
Konkuk University, Chungju, Korea.

Pulmonary Medicine

Amiq Gazdhar

Department of Pulmonary Medicine
University Hospital Bern
3010 Bern, Switzerland

Monday, July 2, 2018

Session [9]: 12:00 Noon – 12:30 PM, FIRN Conference Room

MODERATOR

Eli C. Lewis

Department of Clinical Biochemistry & Pharmacology, Faculty of Health Sciences,
Ben-Gurion University of the Negev Beer-Sheva, Israel

ROUNDTABLE

Theme: **Inflammation as a Category in the Design of Immune
Tolerance Approaches: Is it Inadequate?** ⁽ⁱ⁾

Invited Participants (alphabetically by last name):

Borros Arneth

Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Hospital of the Universities
Giessen and Marburg UKGM Justus Liebig University Giessen, Germany

Vittoria Infantino

Dep. of Science, University of Basilicata, viale dell'Ateneo Lucano 10, 85100 Potenza, Italy

Kwang-Ho Lee

Dep. of Applied Life Science, Graduate School, Konkuk University, Chungju, Korea & Dep. of Biotechnology,
College of Biomedical and Health Sciences, Research Institute of Inflammatory Diseases, Konkuk University,
Chungju, Korea

Ronen Schuster

Dep. of Clinical Biochemistry and Pharmacology, Faculty of Health Sciences, Ben-Gurion University of the
Negev, Beer-Sheva, Israel

⁽ⁱ⁾ Reference: “**Role of Dendritic Cells in Inflammation and Loss of Tolerance in the Elderly**” authored by
Anshu Agrawal, Sudhanshu Agrawal and Sudhir Gupta; *Frontiers in Immunology*, 26 July 2017;
URL: <https://www.frontiersin.org/articles/10.3389/fimmu.2017.00896/full>

Monday, July 2, 2018

Session [10]: 12:30 PM – 1:15 PM, Room to be announced

POSTERS

Dual cancer in a patient with ZNF341 deficiency

Sara Sebnem Kilic¹, Sukru Cekic², Bodo Grimbacher³

¹Professor of Clinical Immunology,
Uludag University, Turkey;

²Fellow of Clinical Immunology,
Uludag University Faculty of Medicine, Turkey;

³Professor of Clinical Immunology,
Freiburg University Faculty of Medicine, Germany.

Chemical compound C40 inhibits NLRP3 inflammasome activation by blocking assembly of the inflammasome

**Xiao Sun¹, Do-Wan Shim¹, Tae-Bong Kang²,
and Kwang-Ho Lee^{1,2}**

¹ Department of Applied Life Science, Graduate School,
Konkuk University, Chungju, Korea;

²Department of Biotechnology, College of Biomedical and Health Sciences,
Research Institute of Inflammatory Diseases,
Konkuk University, Chungju, Korea.

Chemical compound C38 inhibits NLRP3 inflammasome activation in LPS-primed BMDMs

**Xiao Sun¹, Do-Wan Shim¹, Tae-Bong Kang²,
and Kwang-Ho Lee^{1,2}**

¹ Department of Applied Life Science, Graduate School,
Konkuk University, Chungju, Korea;

²Department of Biotechnology, College of Biomedical and Health Sciences,
Research Institute of Inflammatory Diseases, Konkuk University, Chungju, Korea.

Monday, July 2, 2018

Lunch (1:15 PM on)

Monday, July 2, 2018

Half-Day Recommended Excursion (after Sessions):

Ascona & Locarno



Tuesday, July 3, 2018

Registration (8:00 AM – 12:45 PM)

Sessions (8:30 AM – 12:45 PM)

Lunch (12:45 PM on)

Tuesday, July 3, 2018

Session [11]: 8:30 AM – 9:30 AM, FIRN Conference Room

MODERATOR

Boris M. Baranovski

Department of Clinical Biochemistry & Pharmacology, Faculty of Health Sciences,
Ben-Gurion University of the Negev,
Beer-Sheva, Israel

**Citrate in inflammation: an inflammatory signal and
its role in metabolic reprogramming**

Vittoria Infantino^{1,2}, Paolo Convertini^{1,2},
Anna Santarsiero¹, Vito Iacobazzi²

¹ Department of Science, University of Basilicata,
viale dell'Ateneo Lucano 10, 85100 Potenza, Italy;

² Department of Biosciences, Biotechnologies and Biopharmaceutics,
University of Bari, via Orabona 4, 70125 Bari, Italy.

**Enhancement of surgical skin flap survival by
modulating early inflammation**

Ronen Schuster¹, Alon Tiosano^{1,2}, Eli C Lewis¹
and Eldad Silberstein²

¹Department of Clinical Biochemistry and Pharmacology,
Faculty of Health Sciences, Ben-Gurion University of the Negev,
Beer-Sheva, Israel and

²Plastic and Reconstructive Surgery, Soroka University Medical Center,
Ben-Gurion University of the Negev, Beer-Sheva, Israel.

Tuesday, July 3, 2018

Session [12]: 9:30 AM – 10:15 AM, FIRN Conference Room

MODERATOR

Boris M. Baranovski

Department of Clinical Biochemistry & Pharmacology, Faculty of Health Sciences,
Ben-Gurion University of the Negev, Beer-Sheva, Israel

FEATURED TALK

New Vaccine Strategies

Laila H. El Sayed

Department of Allergy and Immunology
Medical Research Institute, Alexandria University, Egypt

Coffee Break: 10:15 AM – 10:45 AM

Tuesday, July 3, 2018

Session [13]: 10:45 AM – 12:15 PM, FIRN Conference Room

MODERATOR

Ljerka Prester

Institute for Medical Research and Occupational Health, Zagreb, Croatia

Development of new generation smallpox vaccine

Sergei N. Shchelkunov^{1,2}, Irina V. Kolosova¹, Stanislav N. Yakubitsky¹, Andrei E. Nesterov¹, Anna V. Zaykovskaya¹, Alexander A. Sergeev¹, Galina A. Shchelkunova¹, Elena V. Gavrilova¹, Rinat A. Maksyutov¹

¹ State Research Center of Virology and Biotechnology VECTOR, Rospotrebnadzor, Koltsovo, Novosibirsk, 630559 Russian Federation

² Novosibirsk State University, Novosibirsk, 630090 Russian Federation

Correlation between proinflammatory cytokines and conventional lipid risk factors in workers exposed to industrial pollutants

Laila H. El Sayed¹, Salwa Nayer M. Abou Rawash²,
and Hossam M. Ghoneim¹.

¹Department of Allergy and Immunology, Medical Research Institute, Alexandria University, Egypt;

²Department of Cancer Research and Management, Medical Research Institute, Alexandria University, Egypt.

Effect of MHC clustering on T cell responses

Nadia Anikeeva¹, Nick Fisher², Craig Blanchette² and **Yuri Sykulev**¹

¹Department of Microbiology and Immunology and Sidney Kimmel Cancer Center, Thomas Jefferson University, Philadelphia, USA

²Biosciences & Biotechnology Division, Lawrence Livermore National Laboratory, Livermore, CA, USA

Tuesday, July 3, 2018

Session [14]: 12:15 PM – 12:45 PM, FIRN Conference Room

MODERATOR

Borros Arneth

Institute of Laboratory Medicine and Pathobiochemistry, Molecular Diagnostics Hospital of the Universities
Giessen and Marburg UKGM Justus Liebig University Giessen, Germany

ROUNDTABLE

Theme: **Immunogenetics** ⁽ⁱ⁾

Invited Participants (alphabetically by last name):

N. Latha

Associate Professor, Department of Biochemistry & Coordinator, Bioinformatics Infrastructure Facility Sri
Venkateswara College, Dhaula Kuan, New Delhi -110021, India

Sergei N. Shchelkunov

State Research Center of Virology and Biotechnology VECTOR, Rospotrebnadzor, Koltsovo, Novosibirsk,
630559 Russian Federation

Yuri Sykulev

Department of Microbiology and Immunology and Sidney Kimmel Cancer Center, Thomas Jefferson University,
Philadelphia, USA

⁽ⁱ⁾ Reference: “Revealing complete complex KIR haplotypes phased by long-read sequencing technology”
authored by D Roe, C Vierra-Green, C-W Pyo, K Eng, R Hall, R Kuang, S Spellman, S Ranade, D E Geraghty &
M Maiers; Genes and Immunity, 2017, Volume 18, pp 127–134;
URL: <http://www.nature.com/articles/gene201710>

Tuesday, July 3, 2018

Lunch: 12:45 PM on

Tuesday, July 3, 2018

Half-Day Recommended Excursion (after Sessions):

Morcote



Wednesday, July 4, 2018

Registration (8:30 AM – 10:00 AM)

Sessions (9:00 AM – 10:00 AM)

Wednesday, July 4, 2018

Session [15]: 9:00 AM – 10:00 AM, FIRN Conference Room

MODERATOR: Demetri Kantarelis

Assumption College, Worcester, Massachusetts, USA

**A New Role for an old enzyme GAPDH in
Human Th17 T cells Differentiation**

Ayten Nalbant

Molecular Immunology Laboratory, Department of Molecular Biology and Genetics,
Izmir Institute of Technology, Urla, Izmir 35430, Turkey

Clinical & Diagnostic Testing: Theory & Examples

Demetri Kantarelis

Assumption College, Worcester, Massachusetts, USA

Wednesday, July 4, 2018

Full-Day Recommended Excursion (after Sessions):

Lake Como / Bellagio



Thursday, July 5, 2018

Full-Day, Post-Conference, Recommended Excursion:

Milan, Italy



OBSERVERS

Demetri Kantarelis
Assumption College
500 Salisbury Street
Worcester, MA 01609
USA

Helen Kantarelis
Frontiers in Immunology Research Network
64 Holden Street
Worcester, MA 01605-3109
USA

Ayse Metin
Diskapi Yildirim Beyazit
Training and Research Hospital
Ankara, Turkey

Have a safe trip back home!

We hope to see you all next year during the
12th International Conference of the
Frontiers in Immunology Research Network (FIRN) in

Vienna, Austria!

*July 1-4, 2019
Fleming's Hotel Wien*

Deadline for abstract submission: March 30th, 2019

