



# 8th EMBRN International Mast Cell and Basophil Meeting in Prague

25<sup>th</sup> - 27<sup>th</sup> May, 2017

Program

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## Thursday, May 25

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- ▶ 8:00 Registration - start
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- ▶ 8:00 - 11:30 DFG mast cell project meeting
- ▶ 12:00 - 13:00 EMBRN Executive committee meeting
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- ▶ 14:00 **Welcome**  
Marcus Maurer, President of EMBRN  
Petr Dráber, on behalf of the local organizing committee
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- ▶ 14:30 - 15:15 **Keynote lecture I: Petr Dráber** (Academy of Sciences of the Czech Republic, Czech Republic)  
“Sphingolipid and Leukotriene Biosynthesis Is Regulated by ORMDL3-5-Lipoxygenase Cross-Talk”
- ▶ 15:15 - 16:15 **Session I: Plasma membrane receptors and MC&Ba signaling**  
(chaired by Toshiaki Kawakami and Petr Dráber)
- 15:15 - 15:35 **Toshiaki Kawakami** (La Jolla Institute for Allergy and Immunology, USA)  
“Differential contributions of mast cells vs. basophils via FcεRI to allergic diseases”
- 15:35 - 15:55 **Silvia Bulfone-Paus** (University of Manchester, UK)  
“Strategies to inhibit excessive mast cell functions”
- 15:55 - 16:15 **Michael Huber** (University Clinic Aachen, RWTH Aachen University, Germany)  
“Control of antigen-triggered mast cell activation by FcεRI-interacting membrane proteins”
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- ▶ 16:15 - 16:45 **Coffee break**
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- ▶ 16:45 - 17:41 **Young researcher session I, Plasma membrane receptors and MC&Ba signaling** (chaired by Toshiaki Kawakami and Petr Dráber).
- 16:45 - 16:52 **Halova Ivana**  
“Enhanced Mast Cell Chemotaxis in the Absence of Transmembrane Adaptor Protein NTAL towards Prostaglandin E2 is Regulated by AKT/ERM/β1-integrin Axis”
- 16:52 - 16:59 **Edismauro Freitas-Filho**  
“RACK1 Affects F-actin Dynamics and Modulates Preformed Mediator Release in Mast Cells”
- 16:59 - 17:06 **Mathias Gast**  
“Antibody-Independent Co-Aggregation of FcεRI and CD32 Results in Lyn- and SHIP1-Dependent Phosphorylation of CD32”
- 17:06 - 17:13 **Sabine Bühner**  
“Nerve-Mast Cell Interaction in The Human Intestine”
- 17:13 - 17:20 **Bernhard Gibbs**  
“New Insights into the Intracellular Control of Human Basophil Response”

- 17:20 - 17:27 **Axel Lorentz**  
“AMP-Activated Protein Kinase Modulates Circadian Clock Gene Expression in Human Mast Cells”
- 17:27 - 17:34 **Kia J. Puan**  
“The IgE-Mediated Signalling Pathway in Human Basophils is Based on Positive Feedback to Syk Phosphorylation”
- 17:34 - 17:41 **Elin Rönnberg Höckerlind**  
“IL-33 and TSLP Down Regulate FcεRI on Human Mast Cells”
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- ▶ 17:45 - 19:45 **Poster viewing and discussion with Czech Beer**
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- ▶ Evening: free
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## Friday, May 26

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- ▶ 8:30 - **Registration - cont.**
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- ▶ 9:00 - 9:45 **Keynote lecture II: Geneviève de Saint-Basile** (Inserm U768; CHU Hôpital Necker Enfants-Malades,  
“From monogenic immune disorders to the exocytosis of cytotoxic vesicles”
- ▶ 9:45 - 10:45: **Session II: MC&Ba exocytosis and mediators**  
(chaired by Ulrich Blank and Ronit Sagi-Eisenberg)
- 09:45 - 10:05 **Ronit Sagi-Eisenberg** (Tel Aviv University, Israel)  
“Regulation of mast cell secretory granule biogenesis and exocytosis”
- 10:05 - 10:25 **Ulrich Blank** (Inserm U 1149 & CNRS ERL8252, Université Paris-Diderot, France)  
“Molecular mechanisms regulating late signaling events in IgE-mediated mast cell degranulation”
- 10:25 - 10:45 **Pavel Dráber** (Academy of Sciences of the Czech Republic, Czech Republic)  
“Microtubular network and mast cells exocytosis”
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- ▶ 10:45 - 11:15 **Coffee break**
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- ▶ 11:15 - 12:25 **Young researcher session II, MC&Ba exocytosis and mediators**  
(chaired by Ulrich Blank and Ronit Sagi-Eisenberg)
- 11:15 - 11:22 **Lucie Potuckova**  
“CSK Regulates FcεRI-Mediated Degranulation and Cytokines/Chemokines Responses in Opposite Ways, Independently of the Adaptor Protein PAG”
- 11:22 - 11:29 **Fabio Rabelo Melo**

“Tryptase-Catalyzed Core Histone Truncation: A Novel Epigenetic Regulatory Mechanism in Mast Cells”

11:29 - 11:36

**Aida Paivandy**

“The Role of Reactive Oxygen Species in Mast Cell Death in Response to Granule Permeabilization”

11:36 - 11:43

**Lars Hellman**

“Highly selective cleavage of cytokines and chemokines by the human mast cell chymase and human neutrophil cathepsin G”

11:43 - 11:50

**Viviana Valeri**

“Mast Cells and B Cells Bidirectional Cross-Talk: Mutual Support in Homeostasis and Inflammatory Conditions”

11:50 - 11:57

**Gunnar Pejler**

“Acidic pH Is Essential for Maintaining Mast Cell Secretory Granule Homeostasis”

11:57 - 12:04

**Ofir Klein**

“Actin Remodeling as Coordinator of Mast Cell Responses”

12:04 - 12:11

**Annet Babirye**

“The Opposite Role of Inteferones In Allergic Inflammation”

12:11 - 12:18

**Chloe Rose**

“Basophil Enrichment: How Does a Microfluidic Platform Compare to Current Experimental Procedures?”

12:18 - 12:25

**Mariam Bagher**

“LAD2 Mast Cell Line and Mast Cell Tryptase Have Migratory Effect On Human Fetal Fibroblasts”

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► 12:30 - 14:00

**Lunch buffet (hall)**

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► 14:00 - 14:45

**Keynote lecture III: Stephen J Galli** (Stanford University School of Medicine, USA)

“Why do we have mast cells?: Figuring out what mast cells do (and how they do it)”

Introduction: **Marcus Maurer** (Charité - Universitätsmedizin Berlin, Germany)

► 14:45 - 15:45

**Session III: MC&Ba in diseases**

This session is dedicated to **Steve Galli** in honor of his 70<sup>th</sup> Birthday

The session will feature contributions by Galli lab members and ex-members

(chaired by: **Marcus Maurer** and **Mindy Tsai**)

14:45 - 15:05

**Nicolas Gaudenzio** (Stanford University School of Medicine, USA)

“Dynamic imaging of mast cell degranulation during inflammatory reactions”

15:05 - 15:25

**Laurent Reber** (Institut Pasteur, France)

“Mast cell-dependent and -independent pathways of anaphylaxis”

15:25 - 15:45

**Michele Grimaldeston** (OMNI-Biomarker Development, Genentech Inc., USA)

“Mast Cells: New insights into regulating their function”

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► 15:45 - 16:15:

**Coffee break**

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- ▶ **16:15 - 17:11** **Young researcher session III: MC&Ba in diseases**  
(chaired by **Marcus Maurer** and **Mindy Tsai**)
- 16:15 - 16:22 **Miroslava Kardosova**  
“The Transcription Factor C/EBP $\gamma$  Regulates Mast Cell Development and Function”
- 16:22 - 16:29 **Chiko Shimbori**  
“The Effect of Fibrotic Extracellular Matrix on Mast Cell Functions and Characteristics”
- 16:29 - 16:36 **Katarina Lyberg**  
“Mast Cells Derived From Patients With Systemic Mastocytosis Show Altered Micro RNA Profile and Osmotic-Induced Hyperreactivity”
- 16:36 - 16:43 **Magnus Åbrink**  
“Targeting Metastasis in Mammary Carcinoma: Functional Analysis of Serglycin Proteoglycan (and mMCP-4)”
- 16:43 - 16:50 **Yvonne Hagenlocher**  
“Mast Cell Amount and Degranulation Are Higher in Proximal Colon of IL-10 $^{-/-}$  Compared to Wild Type Mice and Correlate With Disease Activity Index of Colitis”
- 16:50 - 16:57 **Mirjana Grujic**  
“The Combined Action of Mast Cell Chymase, Tryptase and Carboxypeptidase A3 Protects Against Melanoma Colonization of the Lung”
- 16:57 - 17:04 **Tomas Paulenda**  
“Sphingolipid-regulated circuits in mast cell activation and inflammatory bowel disease”
- 17:04 - 17:11 **Soraya MEZOUAR**  
“Involvement of Cytonemes as a New Extracellular Antimicrobial Mechanism of Mast Cells”
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- ▶ **17:15 - 19:15** **Poster viewing and discussion with Czech wine**
- ▶ **19:15 - 00:00** **Social event at IMG**

## Saturday, May 27

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- ▶ **8:30 -** **Registration - cont.**
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- ▶ **9:00 - 9:45:** **Keynote lecture IV: Hydar Ali** (University of Pennsylvania School of Dental Medicine, USA)  
“Mas-Related G protein coupled Receptor X2 and Mast Cells”
- ▶ **9:45 - 10:45** **Session IV: MC&Ba in diseases as targets for drug treatment**  
(chaired by **Frank Redegeld** and **Francesca Levi-Schaffer**)
- 9:45 - 10:05 **Francesca Levi-Schaffer** (The Hebrew University of Jerusalem, Israel)  
“Stop the mast cells by any means: the struggle against allergic diseases”.
- 10:05 - 10:25 **Frank Redegeld** (Utrecht University, The Netherlands)  
“Role of mast cells in non-atopic diseases”.
- 10:25 - 10:45 **Pio Conti** (University of Chieti-Pescara, Italy)

**“Mast cell, cytokines and inflammation”.**

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- ▶ **10:45 - 11:15**    **Coffee break**
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- ▶ **11:15 - 12:11**    **Young research session IV: MC&Ba in diseases as targets for drug treatment  
(chaired by Frank Redegeld and Francesca Levi-Schaffer)**
- 11:15 - 11:22    **Nadine Landolina**  
“Activation of Siglec-7 Downregulates Transformed Human Mast Cell Leukemia Survival In Vitro”
- 11:22 - 11:29    **Zuzana Hájková**  
“Miltefosine Modulates Both Cell Activation and Microtubule Dynamics in Bone-Marrow Derived Mast Cells”
- 11:29 - 11:36    **Flavie Ngo Nyekel**  
“Mast Cells Orchestrate Immune Cell Responses During Skin Graft Rejection”
- 11:36 - 11:43    **Vrinda Mohta**  
“Targeting MAPK Pathways in Mast Cell Leukemia”
- 11:43 - 11:50    **Thomas Wilhelm**  
“Bortezomib-Induced Switch from Adaptive to Terminal Unfolded Protein Response is Facilitated by JNK Inhibition In HMC-1.2 Cells”
- 11:50 - 11:57    **Yingxin Yu**  
“Crosstalk Between Human Mast Cells and Colon Cancer Cells Contributes to Colon Cancer Development”
- 11:57 - 12:04    **Sylwia Sekula-Neuner**  
“Mast Cell Chip: Combining Chemistry, Lithography and Biology”
- 12:04 - 12:11    **Lionel Rohner**  
“IL-3 Extends Bcl-2 Driven Spontaneous Survival of Basophils by de novo Synthesis of Bcl-xL and Mcl-1”
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- ▶ **12:20 - 13:30**    **EMBRN General Assembly**
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- ▶ **13:30**            **Farewell and Departure**
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