European Phagocyte Workshop

March 29 - April 1, 2023 | Budapest, Hungary

PROGRAM BOOK

CO-ORGANIZERS

SEMMELWEIS UNIVERSITY 1769

HCEMM Translational Medicine

SPONSORS

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EFIS European Federation of Immunological Societies

European Journal of Immunology

DFG Deutsche Forschungsgemeinschaft

SFB 914

origin fate & function TRR332

PROGRAM AT A GLANCE

Wednesday (March 29)

15:00-18:00	Registration
17:30-17:45	Opening
17:45-19:00	Keynote session
19:00-21:00	Welcome reception

Thursday (March 30)

8:30-10:00	Visualizing and manipulating phagocytes
10:00-10:30	Coffee break
10:30-12:00	Migration and imaging
12:00-12:30	Group photo
12:30-14:00	Lunch break
14:00-15:30	Phagocytosis and cytoskeletal changes
15:30-16:00	Coffee break
16:00-17:45	Phagocytes in diseases
18:30-20:30	Poster Dinner

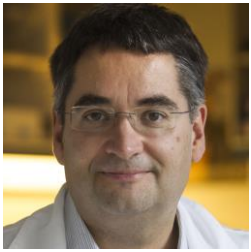
Friday (March 31)

8:30-10:00	Phagocytes in diseases
10:00-10:30	Coffee break
10:30-12:30	Development, life cycle and cell death
12:30-14:00	Lunch break
14:00-15:30	Macrophage lineages
15:30-16:00	Coffee break
16:00-17:45	Signaling
18:45-21:45	Dinner Cruise on the Danube

Saturday (April 1)

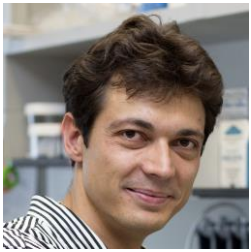
8:30-10:00	Hypoxia and metabolism
10:00-10:30	Coffee break
10:30-12:00	Neutrophil heterogeneity
12:00-12:30	Awards and closing remarks

ABOUT THE ORGANIZERS



Attila Mócsai, MD, PhD is a senior group leader and head of the Department of Physiology at Semmelweis University School of Medicine in Budapest, Hungary. He is also a corresponding member of the Hungarian Academy of Sciences. His major interests are the signaling pathways in myeloid cells (such as neutrophils and osteoclasts) during inflammatory disease models. He has been actively involved in the coordination of the European Phagocyte Workshops during the last decade.

Tamás Németh, MD, PhD is a junior group leader in the Department of Physiology and a board-certified rheumatologist at the Department of Rheumatology and Clinical Immunology at Semmelweis University School of Medicine in Budapest, Hungary. His research interests focus on the contribution of immune and non-immune cells to human autoimmune diseases like rheumatoid arthritis. He is funded by the Lendület program, the most prestigeous Hungarian research grant scheme.



Balázs Enyedi, MD, PhD is a junior group leader in the Department of Physiology at Semmelweis University School of Medicine in Budapest, Hungary, and an investigator of the Hungarian Centre of Excellence in Molecular Medicine (HCEMM). His major interest lies in studying tissue damage and inflammation biology by developing novel biosensors and using them in zebrafish disease models. He is funded by the Lendület program, the most prestigeous Hungarian research grant scheme.

Attila Varga is CEO of Diamond Congress Ltd., a Professional Conference Organizer (PCO) based in Budapest, Hungary. Together with his team, he has been organizing national and international conferences for almost 30 years, particularly in the fields of natural and medical sciences and physical engineering. He also serves as the leader of the PCO Chapter of the Federation of Hungarian Event Organizers and Suppliers.

WELCOME ADDRESS

Dear Friends and Colleagues,

It is our great pleasure to welcome you at the 2023 European Phagocyte Workshop in Hungary. This is a standalone meeting dedicated entirely to phagocyte biology, a format which we believe can serve our scientific field and community much better than having been part of a larger meeting in the last several years. This is also the first European Phagocyte Workshop since 2019, allowing the discussion of major achievements in the field during the COVID and post-COVID periods. With nearly 160 submitted abstracts and nearly 250 registered participants (both likely record numbers in the history of European Phagocyte Workshops), we hope that our meeting will provide momentum for the next several years, revitalizing the annual forum for phagocyte research in Europe.

We have invited a number of outstanding speakers at different stages of their career, including a keynote lecture given by Paul Kubes from Canada. In agreement with the tradition of previous European Phagocyte Workshops, we have also placed major emphasis on promoting the active participation of junior investigators at the meeting. To this end, we have selected about 40 submitted abstracts for short talks, prepared an entire evening with buffet dinner for poster presentation and discussion, and gave out nearly 50 travel grants to junior scientists, thanks to the generous support from the European Federation of Immunological Societies (EFIS).

The venue of the meeting is located on a picturesque island on the Danube in the heart of Budapest. Its green parks provide a refreshing environment to discuss all aspects of phagocyte biology while physically separated from the busy life of the city. A 5.2-km jogging path around the island allows a relaxing exercise before or after the scientific sessions. A conference dinner on a boat trip on the Danube will also allow participants to enjoy the spectacular views and the cultural and historic heritage of the capital of Hungary.

We wish you a very pleasant and fruitful time in Budapest!

Attila Mócsai, Tamás Németh and Balázs Enyedi

Semmelweis University
Budapest, Hungary

PREVIOUS EUROPEAN PHAGOCYTE WORKSHOPS

The history of the European Phagocyte Workshops dates back to around 1980 when scientists including Dirk Roos (Amsterdam) and Tony Segal (London) working on molecular aspects of the NADPH oxidase decided to set up an annual forum for phagocyte-related research in Europe.

The European Phagocyte Workshops have always focused on the biology of various phagocytic lineages with a major emphasis on disease pathomechanisms and neutrophil biology.

With a few exceptions, previous European Phagocyte Workshops were held under the umbrella of the Annual Scientific Meetings of the European Society for Clinical Investigation.

Recent European Phagocyte Workshops and their organizers

2006 Prague, Czech Republic (Dirk Roos, Attila Mócsai)
2007 Uppsala, Sweden (Claes Dahlgren, Anna Karlsson)
2008 Geneva, Switzerland (Nicolas Demaurex, Matthias Wymann)
2009 Frankfurt, Germany (Barbara Walzog, Markus Sperandio)
2010 Bari, Italy (Marco Cassatella, Silvano Sozzani)
2011 Heraklion, Greece (Isabelle Maridonneau-Parini, Timo van den Berg)
2012 Budapest, Hungary (Attila Mócsai, Erzsébet Ligeti)
2013 Albufeira, Portugal (Oliver Soehnlein)
2014 Utrecht, The Netherlands (Leo Koenderman, Jeanette Leusen)
2015 Cluj, Romania (Andrés Hidalgo, Antonio Castrillo, Eeva Inari Soininen)
2016 Paris, France (Véronique Witko-Sarsat, Florence Niedergang)
2017 Genova, Italy (Massimo Locati, Antonio Sica)
2018 Barcelona, Spain (Amiram Ariel, Joan Clària)
2019 Coimbra, Portugal (Oliver Soehnlein, Carlos Silvestre, Joana Viola)

DETAILED PROGRAM

DAY 1 **Wednesday, March 29**

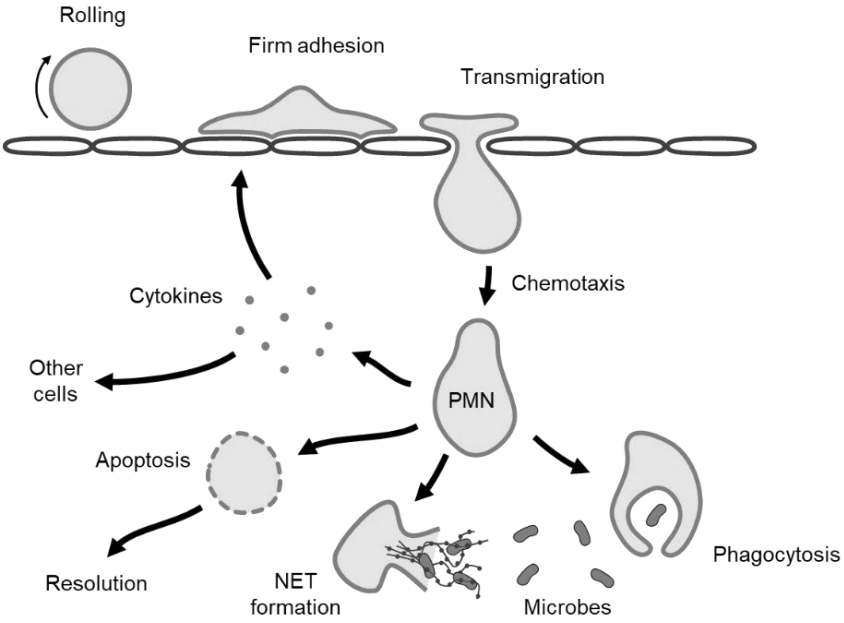
15:00-18:00 **Registration**

17:30-17:45 **Opening address**
Attila Mócsai

17:45-19:00 **Keynote session**
Chairs: Tamás Németh, Balázs Enyedi

Paul Kubes (Calgary, Canada)
The amazingly adaptable monocyte in tissue repair

19:00-21:00 **Welcome reception**



DAY 2	Thursday, March 30

8:30-10:00 **Visualizing and manipulating phagocytes**
Chairs: Sonja Vermeren, Markus Sperandio

8:30-9:00 Milka Sarris (Cambridge, UK)
Neutrophil migration and fates at inflammatory sites: insights from zebrafish

9:00-9:15 Michael Mihlan (Freiburg, Germany) - O-01
Neutrophil trapping and nexocytosis, mast cell-dependent processes for inflammatory signal relay

9:15-9:30 Szimonetta Tamás (Budapest, Hungary) - O-02
Live visualization of LTB_4 gradients with a novel fluorescent biosensor

9:30-9:45 Holly Rutherford (Sheffield, UK) - O-03
Macrophage replacement in a zebrafish model of childhood leukodystrophy as a potential therapy

9:45-10:00 Markus Hoffmann (Lübeck, Germany) - O-04
Stunning of neutrophils rather than depletion of mononuclear phagocytes accounts for the anti-inflammatory effects of clodronate liposomes

10:00-10:30 **Coffee break**

10:30-12:00 **Migration and imaging**
Chairs: Daniel Irimia, Johan Bylund

10:30-11:00 Susanne Nourshargh (London, UK)
Neutrophil breaching of venular walls in reverse: Mechanisms and pathophysiological implications

DAY 2	Thursday, March 30

11:00-11:15	Mathis Richter (Münster, Germany) - O-05 *Biphasic neutrophil infiltration contributes to damage and repair in neonatal hypoxic-ischemic brain injury*
11:15-11:30	Lou Wackerbarth (München, Germany) - O-06 *A20 and the non-canonical NF-κB pathway are key regulators of neutrophil recruitment during fetal ontogeny*
11:30-11:45	Reza Akbarzadeh (Lübeck, Germany) - O-07 *Visualization of kinetics and dynamics of phagocytic dendritic cells in experimental autoimmune epidermolysis bullosa acquisita*
11:45-12:00	Loic Rolas (London, UK) - O-08 *Senescent endothelial cells promote dysregulated neutrophil trafficking and neutrophil-dependent microvascular leakage in vivo*
12:00-12:30	**Group photo**
12:30-14:00	**Lunch break**
14:00-15:30	**Phagocytosis and cytoskeletal changes** *Chairs: Erzsébet Ligeti, Mia Phillipson*
14:00-14:30	Spencer Freeman (Toronto, Canada) *Fluid surveillance and mechanotransduction in macrophages*

DAY 2	Thursday, March 30

14:30-14:45 Salma Rizo-Tellez (Montreal, Canada) - O-09
Interferon-β co-operates with pro-resolving lipid mediators to regulate neutrophil phagocytosis and fate to drive resolution of acute bacterial inflammation

14:45-15:00 Joshi Sonal (Trieste, Italy) - O-10
TIM4: Phagocytosis and beyond

15:00-15:15 Nicolas Rosa (Geneva, Switzerland) - O-11
Role of mechanosensitive Piezo1 Ca^{2+} channels in phagocytosis by mouse neutrophils

15:15-15:30 Joaquín Cantón Sandoval (Murcia, Spain) - O-12
Inhibition of nuclear translocation of GAPDH impacts neutrophil migration and ameliorates chronic skin inflammation

15:30-16:00 Coffee break

16:00-17:45 Phagocytes in diseases
Chairs: Fredrik Wermeling, Charaf Benarafa

16:00-16:30 Ricardo Grieshaber-Bouyer (Heidelberg, Germany)
Neutrophil heterogeneity in rheumatic diseases

16:30-16:45 Lili Balogh (Budapest, Hungary) - O-13
Experimental dermatitis is dependent on Syk-expression in neutrophils

16:45-17:00 Sripriya Murthy (Lübeck, Germany) - O-14
Myeloperoxidase plays an important role in EBA, an autoimmune blistering disease

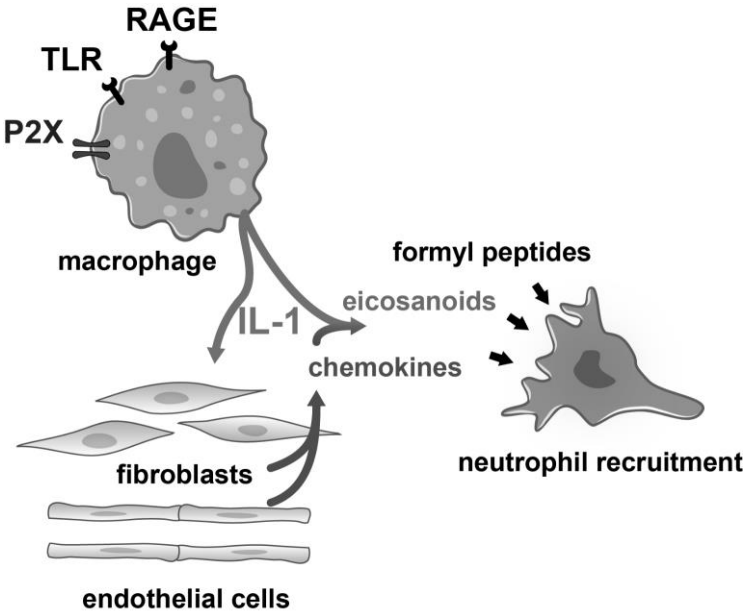
DAY 2 **Thursday, March 30**

17:00-17:15 Tommaso Vicanolo (Madrid, Spain) - O-15
Neutrophils reinforce the skin barrier by matrix production

17:15-17:30 Simon Vikár (Budapest, Hungary) - O-16
A Syk inhibitor blocks neutrophil-mediated skin separation in an ex vivo model of bullous pemphigoid

17:30-17:45 Luke Brown (Calgary, Canada) - O-17
Cathelicidin promotes immunothrombosis during bloodstream infection

18:30-20:30 Poster Dinner



DAY 3 **Friday, March 31**

8:30-10:00 **Phagocytes in diseases**
Chairs: Florence Niedergang, Oliver Soehnlein

8:30-9:00 Renato Ostuni (Milano, Italy)
Transcriptional control of myeloid cell identity and activation

9:00-9:15 Celine Sewnath (Amsterdam, Netherlands) - O-18
Neutrophil-mediated tumor cell killing induces uptake of antigens and dendritic cell maturation

9:15-9:30 Ekaterina Pylaeva (Essen, Germany) - O-19
Therapeutic modulation of glycosaminoglycan-CCL2 interactions reverts tumor-induced immunosuppression

9:30-9:45 Stephen Chetwynd (Cambridge, UK) - O-20
The GPCR adaptor protein norbin suppresses the neutrophil-mediated immunity of mice to pneumococcal infection

9:45-10:00 Vignesh Venkatakrishnan (Göteborg, Sw.) - O-21
The Pseudomonas aeruginosa lectin LecB modulates ROS production in human neutrophils

10:00-10:30 **Coffee break**

10:30-12:30 **Development, life cycle and cell death**
Chairs: Veronique Witko-Sarsat, Marjolein van Egmond

DAY 3 **Friday, March 31**

10:30-11:00 Irina Udalova (Oxford, UK)
Control of neutrophil development and activation at the chromatin level

11:00-11:15 Nicola Tamassia (Verona, Italy) - O-22
The beginning of the neutrophil journey: identification of CD66b^{-}CD64^{dim}CD115^{-} Neutrophil Committed Progenitor cells (NCPs)

11:15-11:30 Judith Giroud-Gerbetant (Barcelona, Spain) - O-23
A role of Slc7a7 and amino acid availability in myeloid cell differentiation

11:30-11:45 Iker Valle Aramburu (London, UK) - O-24
Neutrophils derived from TET2 mutant human hematopoietic stem cells display defective antimicrobial strategies and neutrophil extracellular trap clearance

11:45-12:00 Bartosz Michno (Krakow, Poland) - O-25
Autophagy-related mechanisms enhance host defence against pneumococcal infection in a zebrafish model

12:00-12:30 Taco Kuijpers (Amsterdam, The Netherlands)
Neutrophil development and function: about old wine and new bottles

12:30-14:00 Lunch break

14:00-15:30 Macrophage lineages
Chairs: Nicolas Demaurex, Dávid Győri

DAY 3 **Friday, March 31**

14:00-14:30 Ádám Dénes (Budapest, Hungary)
Microglia modulate neuronal and vascular responses via purinergic mechanisms and inflammatory pathways

14:30-14:45 Iwan Evans (Sheffield, UK) - O-26
Modulation of macrophage subpopulations in Drosophila via apoptotic cell clearance and related pathways

14:45-15:00 Selina Jorch (Bonn, Germany) - O-27
Kupffer cell subtypes use different mechanisms to handle phagocytosed Staphylococcus aureus

15:00-15:15 Lilla Magyar (Szeged, Hungary) - O-28
Transdifferentiation of phagocytic blood cells to encapsulating multinucleated giant hemocytes in Drosophila

15:15-15:30 Petros Tzerpos (Debrecen, Hungary) - O-29
Active transcriptional repression as a safeguard mechanism for the functional specificity and diversity of tissue macrophages

15:30-16:00 Coffee break

16:00-17:45 Signaling
Chairs: Heidi Welch, Anna Karlsson-Bengtsson

16:00-16:30 Clifford Lowell (San Francisco, USA)
Gain of function mutation in SKAP2 leading to autoimmune diabetes

DAY 3 **Friday, March 31**

16:30-16:45 Juan Manuel Lozano-Gil (Murcia, Spain) - O-30
Gasdermin E mediates pyroptotic cell death of neutrophils and macrophages in a zebrafish model of chronic skin inflammation

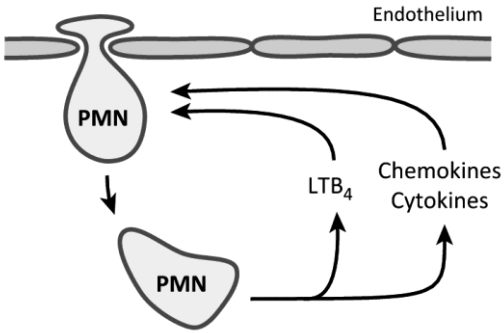
16:45-17:00 Judith Austermann (Münster, Germany) - O-31
S100-alarmins exacerbate autoinflammation in the Familial Mediterranean Fever in a Gasdermin-D and pyrin dependent manner

17:00-17:15 Lukács S. Lesinszki (Budapest, Hungary) - O-32
The role of the Hck tyrosine kinase in nephrotoxic nephritis

17:15-17:30 Ákos M. Lőrincz (Budapest, Hungary) - O-33
Mac-1 receptor signaling switches the anti-inflammatory EV production of neutrophils to pro-inflammatory

17:30-17:45 Roland Immler (München, Germany) - O-34
Transient gasdermin D pores control S100A8/A9 release from rolling neutrophils

18:45-21:45 **Dinner Cruise on the Danube**



DAY 4	Saturday, April 1

8:30-10:00	**Hypoxia and metabolism** *Chairs: Helen Wright, Nicola Tamassia*
8:30-9:00	Sarah Walmsley (Edinburgh, UK) *Metabolic adaptions of circulating neutrophils in acute and chronic inflammatory disease states*
9:00-9:15	Christopher M. Rice (Bristol, UK) - O-35 *Altered neutrophil metabolic state in malaria allows survival in hypoglycemia and promotes ROS production*
9:15-9:30	Pranvera Sadiku (Edinburgh, UK) - O-36 *The role of mitochondria in neutrophils*
9:30-9:45	Michele Fresneda Alarcon (Liverpool, UK) - O-37 *Dysregulated glycolysis in rheumatoid arthritis neutrophils*
9:45-10:00	Catarina Leite (Uppsala, Sweden) - O-38 *Macrophages support healing of ischemic injury by transdifferentiating towards mural cells and adopting functions important for vascular support*
10:00-10:30	**Coffee break**
10:30-12:00	**Neutrophil heterogeneity** *Chairs: Marco Cassatella, Venizelos Papayannopoulos*
10:30-11:00	Carlos Silvestre-Roig (Münster, Germany) *Neutrophil heterogeneity as a consequence of niche specificity*

11:00-11:15 Karen Aymonnier (Paris, France) - O-39
G-CSF reshapes the cytosolic PCNA scaffold and modulates glycolysis in neutrophils

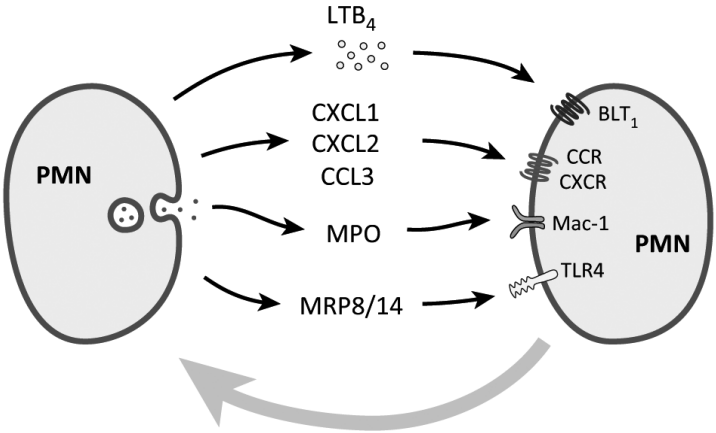
11:15-11:30 Michal Pastorek (Bratislava, Slovakia) - O-40
Impact of age on neutrophil reactivity towards sterile and infectious stimuli

11:30-11:45 Juliana P. Zuliani (Porto Velho, Brazil) - O-41
Phenotypic, functional and plasticity features of classical and alternatively activated human macrophages induced by venom secreted PLA2s

11:45-12:00 Erinke van Grinsven (Oxford, UK) - O-42
Single-cell RNA sequencing reveals the presence of immature neutrophils in inflamed murine joints

12:00-12:30 Awards and closing remarks

12:30-13:30 Farewell snacks and sandwiches



LIST OF POSTERS

P-001	**Genna Abdullah (Liverpool, UK)** Neutrophils in older people with frailty express higher levels of IL-8 receptors CD181 and CD182 than in healthy older people
P-002	**Irene Aranda Pardos (Münster, Germany)** Speed of efferocytosis as heterogeneity mediator in tissue-resident macrophages
P-003	**Karen Aymonnier (Paris, France)** Cytosolic PCNA scaffold negatively controls glycolysis in G-CSF treated neutrophils
P-004	**Ihab Azzam (Münster, Germany)** TLR4-mediated core histone degradation drives immune tolerance in human monocytes
P-005	**Emil Bečka (Bratislava, Slovakia)** FPR1 agonism ameliorates NETosis and partially decreases neutrophil phagocytosis of mitochondria but not bacteria
P-006	**Leonie M. Behrens (Amsterdam, The Netherlands)** Unravelling the method of action of the innate immune checkpoint CD47-SIRPα
P-007	**Larissa Belz (München, Germany)** Neutrophils take up pancreatic tumor fragments and attenuate early liver metastasis
P-008	**Claire Bigot (Toulouse, France)** Compression Force Microscopy: development of a new method to investigate the mechanics of phagocytosis
P-009	**Lili Katalin Boldizsár (Budapest, Hungary)** The role of Src family kinases in LPS nephropathy
P-010	**Lars Borgards (Essen, Germany)** Antimicrobial peptides in human pyelonephritis
P-011	**Nóra Borsos (Budapest, Hungary)** Neutrophilic granulocytes modulate the inflammatory response of monocytes via extracellular vesicles

P-012 **Giuseppe Calamita (Bari, Italy)**
Aquaporin-9 (AQP9) is involved in the systemic inflammation of LPS-induced endotoxic shock in mouse

P-013 **Raphael Chevre (Münster, Germany)**
Time-restricted feeding enhances early atherosclerosis in hypercholesterolemic mice

P-014 **Julia Chu (Cambridge, UK)**
Age-related decline in the resistance of mice to bacterial infection and in LPS/TLR4 pathway-dependent neutrophil responses

P-015 **Ivan Conejeros (Giessen, Germany)**
Trypanosoma brucei brucei-induced aggregated NETs (aggNETs) depend on P2X1 and P2Y6 purinergic receptors

P-016 **Domonkos Czárán (Budapest, Hungary)**
Bicarbonate significantly strengthens neutrophil effector functions

P-017 **Roland Csépányi-Kömi (Budapest, Hungary)**
Lacking ARHGAP25 Mitigates the Symptoms of K/BxN Serum Transfer Arthritis in Mice

P-018 **Agnes Dahlstrand Rudin (Göteborg, Sweden)**
$CD177^{+}$ neutrophils are preferentially recruited to gingival crevicular fluid in periodontitis

P-019 **Amanda C. David (São Paulo, Brazil)**
Photobiomodulation reduces cell death in macrophages exposed to Bothrops jararacussu snake venoms

P-020 **Fabian Dehne (Budapest, Hungary)**
Investigating the role of fMLP in tissue-damage responses and developing a novel genetically encoded fluorescent fMLP biosensor.

P-021 **Dorottya Deli (Budapest, Hungary)**
Analysis of intracellular tyrosine phosphorylation in circulating neutrophils as a rapid assay for the in vivo effect of oral tyrosine kinase inhibitors

P-022 **Rachele Di Donato (Pieve Emanuele, Italy)**
The role of ACKR2 in the regulation of granulopoiesis

P-023	**Maksim Domnich (Essen, Germany)** Small extracellular vesicles mediate the tumorigenic activity of neutrophils
P-024	**Gizem Duru (Amsterdam, The Netherlands)** Activating tumor endothelial cells to increase immune infiltration and the efficacy of cancer immunotherapy.
P-025	**Gabriel Espinosa (Giessen, Germany)** P2X1 receptor antagonist NF449 inhibits Besnoitia besnoiti-induced neutrophil clustering and anchored extracellular trap (NET) formation
P-026	**Chinelo Etiaba (Bristol, UK)** Hemozoin, a by-product of malaria infection, suppresses the neutrophil oxidative burst.
P-027	**Suzanne Faure-Dupuy (Paris, France)** Impairment of macrophages functions and responses by the Human Rhinovirus 16
P-028	**Krisztina Futosi (Budapest, Hungary)** Effect of dasatinib on monosodium urate crystal-induced inflammatory responses
P-029	**Venkata Ram Gannavarapu (Uppsala, Sweden)** Development of a human small intestinal gut-on-a-chip model enabling the study of epithelial cell/immune and bacterial interactions during homeostasis
P-030	**Elisa Gardiman (Verona, Italy)** SARS-CoV-2-Associated ssRNAs Activate Human Neutrophils in a TLR8-Dependent Fashion
P-031	**Dávid S. Győri (Budapest, Hungary)** De novo steroidogenesis in tumor cells drives bone metastasis and osteoclastogenesis
P-032	**Márk Havasi (Budapest, Hungary)** Generation and characterization of β2 integrin-deficient HoxB8-transduced neutrophil progenitors

P-033	**Andrea Herrero-Cervera (Münster, Germany)** Trojan horse neutrophils shuttle lipids into atherosclerotic lesions
P-034	**Markus H. Hoffmann (Lübeck, Germany)** Modulation of inflammatory responses by amplifyers of reactive oxygen and neutrophil extracellular trap formation
P-035	**Mohamed Osama Kamalaldin Hussein (Debrecen, Hungary)** The roles of the transcriptional repressor BACH1 in modulating the inflammatory response of non-polarized and polarized macrophages
P-036	**Daniel Irimia (Boston, United States)** Transcellular LTB4 synthesis during neutrophil swarming against Candida albicans
P-037	**Priota Islam (Cambridge, UK)** Identification of the role of P-Rex1 and its adaptor functions in Neutrophils
P-038	**Shivaprakash Jagalur Mutt (Uppsala, Sweden)** Metabolic regulation of perivascular macrophage functions during ischemic injury
P-039	**Jakub Janko (Bratislava, Slovakia)** Neutrophil extracellular traps formation is enhanced in fever and attenuated in hypothermia
P-040	**Lubica Janovicova (Bratislava, Slovakia)** Neutrophil extracellular traps and extracellular DNA in a mouse model of the hemolytic uremic syndrome
P-041	**Vincent Jaquet (Geneva, Switzerland)** PIEZO1-dependent mechanosensitive transient Ca2+ signaling in a human myeloid cell line
P-042	**Nastassia Kabankova (Essen, Germany)** Determine the impact of type I IFNs on the properties of tumor-associated neutrophils during emergency granulopoiesis
P-043	**Kathrin Kalies (Luebeck, Germany)** The immunomodulatory role of cell-derived nanoparticles on the function of macrophages

P-044 **Eszter Káposztás (Budapest, Hungary)**
The effect of a specific Syk tyrosine-kinase inhibitor in experimental arthritis

P-045 **Balázs Kardos (Debrecen, Hungary)**
Immunological characterization the different forms of necrotic cell death

P-046 **Veronika Karlsson (Göteborg, Sweden)**
Galectin-3 – an immune modulator in ovarian cancer

P-047 **Éva Kemecsei (Budapest, Hungary)**
Characterization of the role of lymphatics in autoimmune arthritis

P-048 **Petra Koncz (Budapest, Hungary)**
The effect of the JAK inhibitor tofacitinib in experimental autoimmune skin blistering

P-049 **Nedim Kozarac (Mittelhäusern, Switzerland)**
Neutrophil granule proteases elastase and cathepsin G cleave SARS-CoV-2 spike protein and have a protective role in virus-mediated inflammation

P-050 **Vanessa Krémer (Paris, France)**
Untangling the NETs- biological triggers of NET formation

P-051 **Eva Kriváková (Brno, Czech Republic)**
The lyophilized human amniotic membrane preparations modulate the immune response of mouse macrophages

P-052 **Lukas Kubala (Brno, Czech Republic)**
Effect of 4-methylumbelliferone on the immune response of macrophages

P-053 **Clare Latta (London, UK)**
GPR84 regulates neutrophil extravasation in murine models of inflammation

P-054 **Chiara Lattanzi (Verona, Italy)**
Single cell RNA sequencing of immunosuppressive neutrophils from G-CSF treated donors

P-055 **Salomé Laurans (Orsay, France)**
When adenoviruses met neutrophils: what's going on?

P-056	**Julia Lee (Edinburgh, UK)** Defining neutrophil functions in glioblastoma multiforme
P-057	**Sophia Leußink (Münster, Germany)** The role of LXR nuclear receptors in controlling membrane and cytoskeleton dynamics
P-058	**Amy Lewis (Sheffield, UK)** Tuning neutrophils via hif-alpha isoforms to control mycobacterial infection in vivo
P-059	**Anna Lívia Linard Matos (Münster, Germany)** Membrane binding and pore-forming proteins in inflammation
P-060	**Jie Liu (Paris, France)** Activation of the phagocyte NADPH oxidase (NOX2) and phosphorylation of p47phox in human neutrophils during phagocytosis of opsonized zymosan
P-061	**Chloé Lopes (Paris, France)** Discovery of a new NLRP3 inflammasome regulator: the cytoplasmic PCNA
P-062	**Catherine Loynes (Sheffield, UK)** Destabilise Me: Targeting mRNA stability to treat inflammatory disease.
P-063	**Juan Manuel Lozano-Gil (Murcia, Spain)** Biochemical and functional characterization of a novel inflammasome that regulates hematopoiesis
P-064	**Joshua Luft (München, Germany)** A novel experimental approach for in vivo analyses of the salivary gland microvasculature
P-065	**Nora Majerhoffer (Budapest, Hungary)** The effect of Syk inhibition on the functions of arthritic synovial fibroblasts
P-066	**Jonas Martensson (Göteborg, Sweden)** Human neutrophils sense the ketone body acetoacetate through the FFA2-receptor
P-067	**Taís Matozo (São Paulo, Brazil)** Role of L-plastin in HIV trans-infection by dendritic cells

P-068	**Mikołaj Mazur (Krakow, Poland)** Biological clock in classically and alternatively polarized phagocytes of common carp.
P-069	**Krisztina Spisák (Szeged, Hungary)** The investigation of TNF reverse signaling on hiPSC-derived neuron-microglia co-cultures
P-070	**Veronika Miskolci (Madison, United States)** Immunoresponsive gene 1 regulates macrophage metabolism in situ and supports collagen remodeling after sterile injury
P-071	**Federica Mornata (Rozzano, Milan, Italy)** Modelling macrophages-glioblastoma cross-talk in tumor microenvironment
P-072	**Mátka Nagy (Budapest, Hungary)** Neutrophil-derived extracellular vesicles regulate the viability and reactive oxygen species production of other immune cells
P-073	**Matteo Napoli (München, Germany)** MRP8/14: fine tuning of calcium availability during β2 integrin activation in neutrophils
P-074	**Florence Niedergang (Paris, France)** Mechanotransduction during Integrin-mediated phagocytosis
P-075	**Andy Nolan (Liverpool, UK)** Targetting neutraphil extracellular traps for the treatment of rheumatoid arthritis and systemic lupus erythematosus.
P-076	**Oliver Nüsse (Orsay, France)** Mechanical changes of neutrophils in acute inflammation
P-077	**Collins Osei-Sarpong (Münster, Germany)** Neutrophil extracellular trap formation regulates liver immune environment and barrier function
P-078	**Janina Osman (Uppsala, Sweden)** The transcriptional repressor zmynd15, expressed in colonic macrophages, could have a protective role in colorectal carcinogenesis

P-079	**Maria Ovezik (Uppsala, Sweden)** Contribution of pancreatic macrophages to neonatal islet maturation and long-term glucose homeostasis
P-080	**Irem Ozel (Essen, Germany)** Stat3 deficiency in neutrophils promotes anti-tumoral neutrophil (N1) phenotype and inhibits tumor growth in murine transplantable head and neck tumor model.
P-081	**Annamaria Pedoto (Murcia, Spain)** Opposed roles of the inflammasome of neutrophils and macrophages in a zebrafish model of COVID-19-associated cytokine storm syndrome
P-082	**Annamaria Pedoto (Murcia, Spain)** In vivo visualization of ASC-specks formation, release and spreading in zebrafish using photoconvertible fluorescent protein Dendra
P-083	**Vincent Jaquet (Genève, Switzerland)** STIM proteins sustain spontaneous Ca2+ elevations in mouse bone marrow neutrophils
P-084	**Sheela Ramanathan (Sherbrooke, Canada)** Role of Interleukin-15 in the progression of liver fibrosis
P-085	**Maximilian Rembrink (Münster, Germany)** The Role of the Interferon Regulatory Factor 8 and the Alarmins S100A8/A9 in Sepsis
P-086	**Julian Revenstorff (Münster, Germany)** S100A8/A9 deficiency causes dysregulation of platelet-neutrophil-complex formation
P-087	**Rebecca Rixen (Münster, Germany)** A minor role of non-classical monocytes in ischemia-reperfusion injury and regeneration of the kidney
P-088	**Lola Rodríguez-Ruiz (Murcia, Spain)** A novel role for the inflammasome in the regulation of hematopoiesis which contributes to hematopoietic alterations associated with chronic inflammatory and rare diseases.

P-089	**Julia Salafranca (Oxford, UK)** Objective quantification of neutrophil maturation by live 3D imaging of nuclear morphology
P-090	**Felix P. Sanchez Klose (Göteborg, Sweden)** Messages from the inside: Analysis of phagosome-specific events by the use of substrate-coupled beads
P-091	**Péter Sasvári (Budapest, Hungary)** Proteomic studies to unveil the physical interactions of ARHGAP25 in neutrophilic granulocytes
P-092	**Tim Skrabanja (Utrecht, The Netherlands)** Intravital imaging of intradermal microplastics in mice reveals a heterogeneous neutrophil response and failure of clearance
P-093	**Bojan Smiljanov (München, Germany)** TSP-1 supports neutrophil trafficking to inflamed tissue by promoting interactions with platelets and endothelial cells
P-094	**Natalia Zubrzycka (Krakow, Poland)** Targeting deregulated expression of anti-apoptotic proteins belonging to the Bcl-2 family as a potential therapy against periodontal disease.
P-095	**Martina Sundqvist (Göteborg, Sweden)** More potent FPR1 inhibitors than the commonly used peptide antagonists are required to inhibit neutrophil chemotaxis
P-096	**Kata Petra Szilveszter (Budapest, Hungary)** The effect of neutrophil-specific deletion of PLCγ2 in experimental autoimmune skin blistering
P-097	**Chiara Testini (Uppsala, Sweden)** Macrophages contribute to vascular maturation and pruning important for tissue normalization during healing of ischemic injuries
P-098	**Kinga Tomcsányi (Budapest, Hungary)** The role of Syk tyrosine kinase in monosodium urate crystal-induced inflammation

P-099 **Márta Tóth (Debrecen, Hungary)**
Phagocytic efficiency of human monocyte-derived dendritic cells is affected by the peptidoglycan modifications in Lactobacillus casei BL23

P-100 **Alessia Troilo (Milano, Italy)**
The tetraspan MS4A4A modulates macrophage activation

P-101 **Claudia Tulotta (Münster, Germany)**
Dissecting neutrophilic and metastatic education in cancer

P-102 **Simon Tusnády (Budapest, Hungary)**
The role of phospholipase Cγ2 in monosodium urate crystal-induced inflammatory processes

P-103 **Cindy P. Ulloa Guerrero (Münster, Germany)**
Interactions between Spleenic Macrophages and Stromal cells are essential for the maintenance of the Marginal Zone

P-104 **Myrthe van Delft (Amsterdam, The Netherlands)**
IgA blocking FcαR1 (CD89) antibodies to treat IgA-mediated tissue damage in chronic inflammation and autoimmunity

P-105 **Miguel Vizoso Patiño (Uppsala, Sweden)**
Long-term intravital visualization of macrophage recruitment and function during endometrial repair

P-106 **Sami Wainwright (Essen, Germany)**
Monocytes in hereditary hemorrhagic telangiectasia are immunosuppressive due to the upregulation of PD-1/PDL-1 axis

P-107 **Haitao Wang (London, UK)**
Pulmonary vasculature senescent endothelial cells attract rTEM neutrophils stemming from locally inflamed tissues

P-108 **Steven Webbers (Amsterdam, The Netherlands)**
Hermansky-Pudlak Syndrome type 2 neutrophils cultured from patient-derived induced Pluripotent stem cells reveal A phenotype of hemophagocytosis

P-109 **Heidi Welch (Cambridge, UK)**
The Rac-GEF Tiam1 controls integrin-dependent neutrophil responses

P-110	**Fredrik Wermeling (Stockholm, Sweden)** CSF3 and IL-4 mediated modulation of neutrophil function during acute joint inflammation
P-111	**Lars Widera (Essen, Germany)** Local recruitment of neutrophils into the bladder urothelium during bacterial infection
P-112	**Anne Wöhr (Göteborg, Sweden)** Neutrophil serine proteases process IL-18 to a cytokine variant with enhanced activity
P-113	**Przemyslaw Zakrzewski (Bristol, UK)** The mitochondrial transacetylase tafazzin regulates neutrophil development and function
P-114	**Stella R. Zamuner (São Paulo, Brazil)** Photobiomodulation as a therapeutic approach to the oxidative redox potential, lipid droplets formation and phagocytosis of murine macrophages stimulated with Bothrops jararacussu venom
P-115	**Juliana P. Zuliani (Porto Velho, Brazil)** A venom C-type lectin induces NLRP3 inflammasome activation via TLR4 interaction in human peripheral blood mononuclear cells
P-116	**Jeffrey Mewburn (Kingstone, Canada)** Mitochondria in human neutrophils mediate killing of Staphylococcus aureus
P-117	**Catarina Leite (Uppsala, Sweden)** Tissue ischemia induces mobilization of pro-angiogenic neutrophils from the spleen
P-118	**Emiliána Jex (Budapest, Hungary)** Interactions between the NLRP3-dependent IL-1β and the type I interferon pathways in human plasmacytoid dendritic cells

EFIS-EJI TRAVEL GRANT RECIPIENTS

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(Madrid, Spain)
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VENUE & LOCATION

The meeting will be held at Ensana Hotel Thermal on Margaret Island (Margitsziget). Margaret Island is a large park on a 2.5-km island surrounded by the Danube in the middle of Budapest. It is a perfect place for walking, jogging and other recreational activities. There is a 5.2-km jogging path around the island, with beautiful views of the city. The city center is easily accessible by public transportation or a longer walk. A cruise ship for a Dinner on the Danube will depart from one of the piers near our hotel. Ensana Hotel Thermal is a recently renovated modern hotel with excellent conference and hotel amenities.

www.ensanahotels.com

Address: 1007 Budapest, Margitsziget
Phone: +36 1 889 4700

TECHNICAL ORGANIZER

Diamond Congress Ltd.
www.diamond-congress.hu

SOCIAL EVENTS

Poster Dinner (Thrusday, March 30)
Join us for an exciting evening with outstanding scientific discussions around the posters while enjoying delicious meal in the same conference hall. The two parallel events will give the opportunity to have informal poster presentations and scientific exchanges, networking and socializing with colleagues, while enjoying some culinary pleasures of Hungary.

Dinner Cruise on the Danube (Friday, March 31)
Enjoy a friendly and memorable dinner with the participants on an amazing river cruise in the middle of Budapest on the Danube. A delicious dinner with wines will be served during the night. When in Budapest, don't miss cruising past the architectural wonders of the Hungarian capital. The Castle District, the Citadel or the House of Parliament are just a few of the many magnificent attributes that the Danube embankment has to offer. Our dinner with river cruise will give you the opportunity to admire the breathtaking panorama of the capital.
The cruise ship will depart and arrive close to the conference venue. The price (75 EUR/person) is not included in the registration fee.

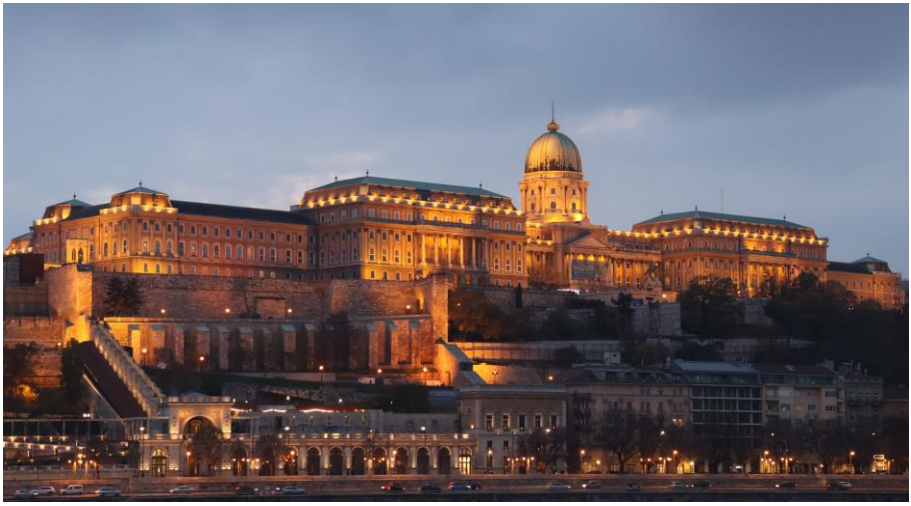


Photo by Tamás Németh

ABOUT THE CO-ORGANIZERS AND SPONSORS

Semmelweis University is a leading institution of higher education in Hungary and the Central European region within the area of medicine and health sciences. With its more than 250 years of tradition, Semmelweis University is an internationally renowned centre of knowledge, built on the integration of education, research and healthcare. The institution is ranked among the top 250 universities in the world and among the bests in Europe. In addition to teaching, Semmelweis University is the largest provider of healthcare services in Hungary.
Website: semmelweis.hu

The Hungarian Center of Excellence for Molecular Medicine (HCEMM) is a research institution working at the interface of academic and industrial research on topics related to Translational Medicine. Its laboratories are primarily distributed across Budapest and Szeged. HCEMM aims to develop advanced diagnostic and treatment options for healthy ageing through novel applications in the field of Molecular Medicine.
Website: hcemm.eu

The Hungarian Academy of Sciences is a constitutionally recognized learned society of Hungary established in 1825. Its main responsibilities are the cultivation and respresentation of science, dissemination of scientific findings, and supporting research and development in Hungary. It also runs nationwide scientific quality assurance programs and the most prestigeous Hungarian scientific research grant scheme.
Website: mta.hu

The European Federation of Immunological Societies (EFIS) is a non-profit umbrella organization of 35 European immunology societies, representing nearly 14,000 individual researchers and clinicians working in the fields of immunology and allergology. EFIS supports immunological research and education, and strengthens scientific interaction amongst its members. EFIS activities include organization of scientific meetings, as well as giving out special awards, fellowships and travel grants.
Website: efis.org

The European Journal of Immunology (EJI) is an official scientific journal of the European Federation of Immunological Societies (EFIS). Established in 1971, EJI continues to serve the needs of the global immunology community covering basic, translational and clinical research in the diverse field of immunology. Emphasis is placed on mechanistic insight, thought-provoking findings and cutting-edge technologies. Manuscripts are judged by a transparent and fair peer review system.
Website: onlinelibrary.wiley.com/journal/15214141

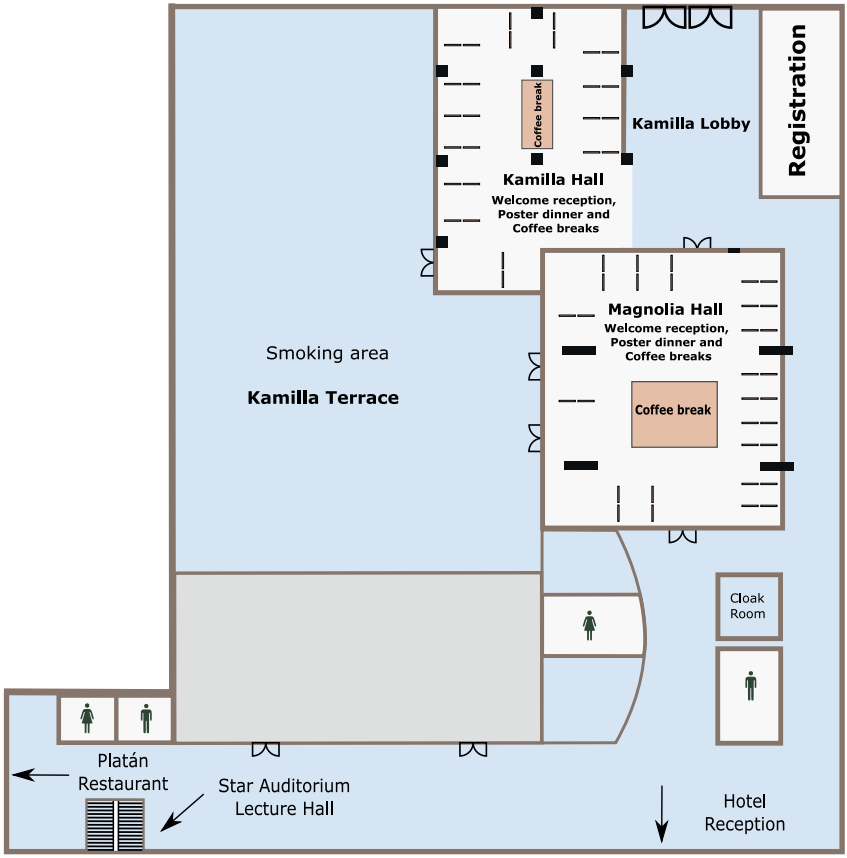
The Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) is the central self-governing research funding organisation in Germany. The DFG serves the sciences and humanities and promotes research of the highest quality in all its forms and disciplines at universities and non-university research institutions. The focus is on funding projects developed by the academic community itself in the area of knowledge-driven research.
Website: dfg.de

SFB914 is a DFG-funded collaborative research consortium at LMU Munich, in partnership with TUM Munich and the Max-Planck Institute of Biochemistry, focusing on “Trafficking of Immune Cells in Inflammation, Development and Disease”. Its aim is to investigate the molecular and cellular determinants that control and orchestrate the migratory behavior of immune cells under steady-state conditions, as well as during inflammation.
Website: www.sfb914.med.uni-muenchen.de

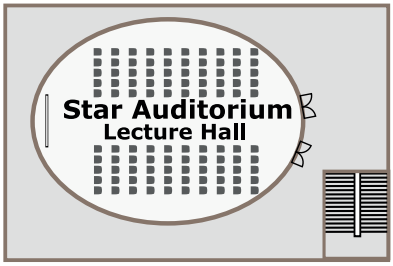
TRR332 is a DFG-funded transregional collaborative research consortium between universities and research institutions from Bavaria, North Rhein-Westphalia and Saxony, dedicated to develop an improved understanding of neutrophil biology. TRR332 aims to reveal mechanisms of how the tissue environment regulates neutrophil production and phenotypes, how neutrophil activity is controlled intracellularly and how neutrophils function in different disease contexts.
Website: neutrophils.de

Cover photo: courtesy of Miklós Mayer. Book your *Budapest by night* photography adventure at hungaryphototours.com.
Source of schematic drawings: Mócsai, J Exp Med 2013; Enyedi and Niethammer, Trends Cell Biol 2015; Németh and Mócsai, Trends Immunol 2016.

Ensana Thermal Hotel Margaret Island
FLOOR PLAN - Conference and Poster session



Lower ground floor



European Phagocyte Workshop

March 29 - April 1, 2023
Budapest, Hungary

SEMMELWEIS 40 — INTERNATIONAL

IN THE ACADEMIC YEAR 2022/2023, SEMMELWEIS UNIVERSITY CELEBRATES THE 40TH ANNIVERSARY OF THE LAUNCH OF ITS INTERNATIONAL MEDICAL TRAINING.

The leading medical and health sciences university of Hungary and the region has become one of the most significant English and German language training institutions in Europe. A third of our students are international students, coming from almost 100 countries around the world.

To mark the occasion, the university is organizing a series of programs throughout this academic year.

Be part of the anniversary celebration! We look forward to welcoming you to our events!

For more information about the jubilee year and related events, please visit the Semmelweis University website:
semmelweis.hu/international40/en/

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