

Workshop 1 | Phagocyte biology

Organisers: Amiram Ariel (Haifa, Israel) and Joan Clària (Barcelona, Spain)
Day: Wednesday 30 and Thursday 31 May and Friday 1 June
Time: Different schedules apply depending on day
Meeting room: MR07+08

Wednesday, 30 May

Session 1 : Phagocyte movement in vivo and in vitro

Chairs : Steffen Jung and Barbara Walzog

- 13:30-13:55 **W1-L1 | The mesenchymal migration of macrophages is a novel target in cancer immunotherapy**
Isabelle Maridonneau-Parini (Toulouse, France)
- 13:55-14:20 **W1-L2 | The fate and functions of lung vascular neutrophils**
Bryan Yipp (Calgary, Canada)
- 14:20-14:45 **W1-L3 | How do the mechanical properties of the nuclear lamina affect granulocyte transendothelial migration and crossing through collagen barriers?**
Ronen Alon (Rehovot, Israel)
- 14:45-15:10 **W1-L4 | The Biology of tissue-infiltrating neutrophils**
Andrés Hidalgo (Madrid, Spain)
- 15:10-15:30 **W1-O1 | Neutrophil Swarms Delay the Growth of Microbe Clusters**
Daniel Irimia¹
¹Massachusetts General Hospital, Harvard Medical School, Boston, United States
- 15:30-15:45 **W1-O2 | Perivascular macrophages regulate blood flow following tissue damage**
Evelina Vågesjö¹, Cédric Seignez¹, Gustaf Christoffersson¹, Carmen Herrera-Hidalgo¹, Antoine Giraud¹, Olle Korsgren², Helene Rundqvist³, Magnus Essand², Lena Holm¹, Randall Johnson^{3,4},
Mia Phillipson¹
¹Medical Cell Biology dept, Biomedical Center, Uppsala University, Uppsala, Sweden,
²Immunology, Genetics and Pathology dept, Biomedical Center, Uppsala University, Uppsala, Sweden,
³Cell and Molecular Biology dept, Karolinska Institut, Sweden, ⁴Physiology, Development and Neuroscience dept, University of Cambridge, United Kingdom
- 15:45-16:00 **W1-O3 | Tumour eradication by IgA induced neutrophils swarming**
Niels Heemskerk¹, Cornelis W. Tuk¹, Marco de Donatis¹, Suzanne Lissenberg-Thunnissen², Robin Temming², Arthur Bentlage², Celine Sewnath¹, Marcella de Boer¹, Marijn Bögels¹, Jantine E. Bakema³, Gestur Vidarsson², Marjolein van Egmond¹
¹Vu University Medical Center, Department Of Molecular Cell Biology And Immunology, Amsterdam, Netherlands, ²Department of Experimental Immunohematology, Sanquin Research and Landsteiner Laboratory, Academic Medical Center, Amsterdam, Nederland, ³Department of Otolaryngology/Head-Neck Surgery, VUMC, Amsterdam, Nederland
- 16:00-16:30 COFFEE-BREAK

Session 2 : Phagocyte fate during inflammation and homeostasis

Chairs : Kodi Ravichandran and Timo van den Berg

- 16:30-16:55 **W1-L5 | The Janus faced gladiator: neutrophils in sterile inflammation and autoimmunity**
Markus Hoffmann (Erlangen, Germany)
- 16:55-17:15 **W1-O4 | Macrophages are major cells in IL-1 β - induced suppression of anti-tumor immunity**
Ron Apte¹, Irena Kaplanov¹, Yaron Carmi², Rachel Kornetsky¹, Elena Voronov¹
¹Ben Gurion University, Beer Sheva, Israel, ²Tel Aviv University, Tel Aviv, Israel
- 17:15-17:30 **W1-O5 | Immune complex-induced neutrophil apoptosis is separate from phagocytosis induced cell death**
Utsa Karmakar¹, Julia Chu¹, Sonja Vermeren¹
¹University of Edinburgh, Edinburgh, United Kingdom
- 17:30-19:00 OPENING CEREMONY & LECTURE IN ROOM MR10+11

Thursday, 31 May

Session 3 : Phagocytes in inflammation and its resolution

Chairs : Andrés Hidalgo and Attila Mocsai

- 08:30-08:55 **W1-L6 | Phagocytosis-induced neutrophil apoptosis and resolution of inflammation**
Janos Filep (Montreal, Canada)
- 08:55-09:20 **W1-L7 | Metabolic regulation of neutrophils during inflammation**
Tsvee Lapidot (Rehovot, Israel)
- 09:20-09:35 **W1-O6 | Role of Norbin, a GPCR-Adaptor and Regulator of P-Rex1, in Neutrophil-Dependent Immunity**
C. Pantarelli¹, D. Pan¹, A.K. Stark¹, H.C. Welch¹
¹Babraham Institute, Cambridge, United Kingdom
- 09:35-09:50 **W1-O7 | Activated neutrophils suppress T lymphocyte proliferation: mechanisms unraveled**
Cathelijn Aarts¹, I.H. Hiemstra¹, E.P. Béguin², S. Bouchmal¹, M. van Houdt¹, M.H. Janssen³, F.P.J. van Alphen⁴, A.B. Meijer⁴, T.K. van den Berg¹, T.W. Kuijpers^{1,5}
¹Department of Blood Cell Research, Sanquin Research and Landsteiner Laboratory, AMC, University of Amsterdam, Amsterdam, Netherlands, ²Department of Plasma proteins, Sanquin Research and Landsteiner Laboratory, AMC, University of Amsterdam, Amsterdam, Netherlands, ³Department of Experimental Immunology, Academic Medical Center (AMC), Amsterdam, Netherlands, ⁴Department of Research Facilities, Sanquin Research, Amsterdam, Netherlands, ⁵Department of Pediatric Hematology, Immunology & Infectious Disease, Emma Children's Hospital, Academic Medical Center (AMC), University of Amsterdam, Amsterdam, Netherlands
- 09:50-10:00 **W1-O8 | Cellular and mechanistic processes linking inflammation and tissue repair**
Magdalena E.M. Oremek¹, Christopher D. Lucas¹, Laura J. Hoodless¹, Fiona Rossi¹, Carl S. Tucker¹, Martin A. Denvir¹, Adriano G. Rossi¹
¹University of Edinburgh, Edinburgh, United Kingdom
- 10:00-10:30 COFFEE-BREAK
- 10:30-12:30 COMMON ACTIVITIES - AWARD LECTURES IN ROOM MR10+11
- 12.30-14.30 LUNCH & POSTER VIEWING AND EVALUATION

Session 4 : Phagocytes in the clearance of apoptotic debris

Chairs : Bernhard Brune and Catherine Godson

- 14:30-14:55 **W1-L8 | Signaling in phagocytes during apoptotic cell engulfment**
Kodi Ravichandran (Charlottesville, VA, USA)
- 14:55-15:20 **W1-L9 | Death begets a new beginning**
Carla Rothlin (Yale University, CT, USA)
- 15:20-15:45 **W1-L10 | Phagocyte Responses to Dying Cells**
Julie M. Blander (Cornell University, NY, USA)
- 15:45-16:00 **W1-O9 | Cell-autonomous Protein S drives apoptotic cell engulfment by multiple phagocytes**
Tal Burstyn-Cohen¹, Delphine Lumbroso², Soaad Soboh², Avi Maimon¹, Stav Shtiglitz¹, Arielle Sznajderman¹, Sagie Schiff-Zuck², Amiram Ariel²
¹Hebrew University of Jerusalem, Jerusalem, Israel, ²University of Haifa, Haifa, Israel
- 16:00-16:30 COFFEE BREAK

Session 5 : Cytokines and chemokines in phagocyte function

Chairs : Janos Filep and Marjolein van Egmond

- 16:30-16:55 **W1-L11 | Probing Macrophage Contributions to Organismal Homeostasis and Responses to Challenge**
Steffen Jung (Rehovot, Israel)
- 16:55-17:20 **W1-L12 | Regulatory networks controlling macrophage polarized activation**
Massimo Locati (Milan, Italy)
- 17:20-17:30 **W1-O10 | New insights in the role of S100A8/A9 in neutrophil recruitment**
Monika Pruenster
Walter-Brendel-Center of Experimental Medicine, Biomedical Center, Ludwig-Maximilians Universität München, Munich, Germany
- 17:30-19:00 POSTER VIEWING AND EVALUATION

Friday, 1 June

Session 6 : Phagocytes in liver and kidney disease I

Chairs : J. Trebicka and E. Zigmond

- 08:30-08:55 **W1-L13 | Neutrophil Dysfunction in Cirrhosis**
Richard Moreau (Paris, France)
- 08:55-09:20 **W1-L14 | Alcohol binge contributes to abnormal neutrophil extracellular traps and impaired macrophage efferocytosis in sepsis in mice**
Gyongyi Szabo (Worcester, MA, USA)



- 09:20-09:35 **W1-O11 | Human primary macrophages show tissue-specific profiles of IgG receptor expression**
Christine Bruggeman¹, Sietse Nagelkerke¹, Erik Mul², Mark Hoogenboezem², Julia Houtzager³, Barbara Dierdorp⁴, Jesper Kers⁵, Steven Pals⁵, René Lutter⁴, Thomas van Gulik³, Joke den Haan⁶, Timo van den Berg¹, Taco Kuijpers^{1,7}
¹Department of Blood Cell Research, Sanquin Research and Landsteiner Laboratory, Academic Medical Center (AMC), University of Amsterdam, Netherlands, ²Department of Central Facility Research, Sanquin Research, and Landsteiner Laboratory, AMC, University of Amsterdam, Netherlands, ³Department of Experimental Surgery, AMC, University of Amsterdam, Netherlands, ⁴Department of Experimental Immunology, AMC, University of Amsterdam, Netherlands, ⁵Department of Pathology, AMC, University of Amsterdam, Netherlands, ⁶Department of Molecular Cell Biology and Immunology, VU University Medical Center, Amsterdam, Netherlands, ⁷Emma Children's Hospital, AMC, University of Amsterdam, Netherlands.
- 09:35-09:50 **W1-O12 | CD5L Drives M2 Polarization of Human Macrophages in Liver Cancer**
Lucía Sanjurjo^{1,2}, Gemma Aran¹, Érica Tellez¹, Bruna Silva-Martins¹, Esther Díaz³, Carlos Huertas⁴, Susana Coll⁵, María Varela⁶, Mireia Miquel^{7,8}, Mónica García-Gallo⁹, Margarita Sala^{8,10}, Leonor Kremer⁹, Daniel López¹¹, Carolina Armengol^{8,12}, Clara Prats¹¹, Maria-Rosa Sarrias^{1,8}
¹Innate Immunity Group, Health Sciences Research Institute Germans Trias i Pujol (IGTP), Badalona, Spain, ²Network for Biomedical Research in Diabetes and Associated Metabolic Diseases (CIBERDEM), Barcelona, Spain, ³Pathology Dept. Josep Trueta Hospital, Girona, Spain, ⁴Gastroenterology Dept. Josep Trueta Hospital, Girona, Spain, ⁵Gastroenterology Dept. Mar Hospital, Barcelona, Spain, ⁶Gastroenterology Dept., Central de Asturias Hospital, Oviedo, Spain, ⁷Gastroenterology Dept., Parc Taulí Hospital Consortium, Sabadell, Spain, ⁸Network for Biomedical Research in Hepatic and Digestive Diseases (CIBERehd), Barcelona, Spain, ⁹Protein Tools Unit and Department of Immunology and Oncology, Centro Nacional de Biotecnología (CNB-CSIC), Madrid, Spain, ¹⁰Gastroenterology Dept., Hospital Universitari Germans Trias i Pujol (HUGTiP), Badalona, Spain, ¹¹Departament de Física, Escola Superior d'Agricultura de Barcelona, Universitat Politècnica de Catalunya- BarcelonaTech, Castelldefels, Spain, ¹²Childhood Liver Oncology Group, Program of Predictive and Personalized Medicine of Cancer (PMPCC), IGTP, Badalona, Spain
- 09:50-10:00 **W1-O13 | Impairment of human neutrophilic functions in septic patients is transferable by heat-resistant serum factor(s)**
Csaba Timár¹, Ferenc Kolonics¹, Zsolt Iványi², Viktor Berzsenyi¹, Eszter Tamáska², Lilla Turiák³, Ken McLeish⁴, Erzsébet Ligeti¹
¹Semmelweis University, Department of Physiology, Budapest, Hungary, ²Semmelweis University, Clinics of Anesthesiology and Intensive Therapy, Budapest, Magyarország, ³Hungarian Academy of Sciences, MS Proteomics Research Group, Research Center for Natural Sciences, Budapest, Hungary, ⁴University of Louisville, Department of Medicine, Louisville, USA
- 10:00-10:30 COFFEE BREAK
10:30-12:30 COMMON ACTIVITIES - AWARD LECTURES IN ROOM MR10+11
12:30-14:30 LUNCH & POSTER VIEWING AND EVALUATION

Session 7 : Phagocytes in liver and kidney disease II

Chairs : Heidi Welch and Gyongyi Szabo

- 14:30-14:55 **W1-L15 | Regulation of innate immunity by pro-resolving lipid mediators**
Cristina López-Vicario (Barcelona, Spain)
- 14:55-15:20 **W1-L16 | Lipoxins and synthetic mimetics: Resolving Inflammation, Suppressing Diabetic Complications**
Catherine Godson (Dublin, IR)
- 15:20-15:45 **W1-L17 | Mononuclear Phagocytes in Autoimmune Cholangitis**
Ehud Zigmund (Tel Aviv, Israel)
- 15:45-16:00 **W1-O14 | Albumin modulates TLR9 and FPR1 signalling in human peripheral leukocytes**
Mireia Casulleras¹, José Alcaraz-Quiles¹, Marta Duran-Güell¹, Roger Flores-Costa¹, Esther Titos¹, Cristina López-Vicario¹, Raquel Horrillo², Montserrat Costa², Richard Moreau^{3,4}, Vicente Arroyo⁴, Joan Clària^{1,4}
¹Hospital Clinic-University of Barcelona, Barcelona, Spain, ²R&D, Bioscience Industrial Group, Grifols, Barcelona, Spain, ³Inserm, U1149, Centre de Recherche sur l'Inflammation (CRI), Paris, France, ⁴European Foundation for the Study of Chronic Liver Failure (EF-Clif), Barcelona, Spain
- 16:00-16:30 COFFEE BREAK

Session 8 : Environmental control of macrophage differentiation

Chairs : Amiram Ariel and Joan Claria

- 16:30-16:55 **W1-L18 | S1P receptors in macrophage polarization**
Bernard Brune (Frankfurt, Germany)
- 16:55-17:20 **W1-L19 | The gene signature of activated IL-10-producing macrophages relies on MAPK and GSK3**
Angel Corbi (Madrid, Spain)
- 17:20-17:30 **W1-O15 | EMMPRIN vaccination improves both tumour growth and DSS-induced colitis**
Michal A. Rahat^{1,2}, Elina Simanovich¹, Vera Brod¹
¹Carmel Medical Center , Haifa, Israel, ²Ruth and Bruce Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel
- 17:30-17:45 Talk awarded from submitted abstracts
- 17:45-18:00 Talk awarded from submitted abstracts
- 18:00-18:30 POSTER PRIZES & CLOSING IN ROOM MR10+11