Immunology, Metabolism and Ageing

FEBS Workshop

September 8-11, 2025 | Matrei am Brenner, Austria

Immunology, Metabolism and Ageing

immunologymetabolismageing2025.febsevents.org

Venue: St. Michael Alpine Retreat Schöfens 12 6443 Matrei am Brenner Austria

Program



















Monday, September 8, 2025

08:00 - 09:15 Registration

09:15 - 09:30 Welcome Addresses

09:30 - 11:00 Session 1: "Mitochondria and Aging" (chairperson: Alexander WEISS)

09:30 - 10:00 Aleksandra TRIFUNOVIC, Cologne, Germany: Mitochondrial stress responses in disease and ageing

10:00 - 10:30 Marta IBORRA PERNICHI, Madrid, Spain: *Defective mitochondria function in B cells as a trigger of an aged immune response*

10:30 - 10:45 Short Talk: Maria CAVINATO, Innsbruck, Austria: *Mitochondrial quality control and cellular senescence in the pathogenesis of cutaneous squamous cell carcinoma*

10:45 - 11:00 Short Talk: Sophie. DIECKMANN, Innsbruck, Austria: *Impact of glutamate metabolism inhibition on melanoma development and myeloid cells*

11:00 - 11:30 Coffee break

11:30 - 12:45 Interactive Session 1: Meet the Editors

11:30 - 11:50 Jan RIEMER, Cologne, Germany: FEBS presentation

11:50 – 12:00 loannis TSAGAKIS, FEBS Press representative

12:00 - 12:45 Meet the Editors

12:45 - 13:45 Lunch

13:45 - 15:15 Session 2: "Senolytics" (chairperson: Pidder JANSEN-DÜRR)

13:45 - 14:15 Johannes GRILLARI, Vienna, Austria: Senolytics in aging and regeneration

14:15 - 14:45 Makoto NAKANISHI, Japan: Targeting senescent cells to ameliorate age-related diseases

14:45 - 15:00 Short Talk: Karla VALDIVIESO, MN, USA: *Targeting senescence to prevent therapy induced accelerated aging and cognitive decline*

15:00 - 15:15 Short Talk: Julia LIST, Vienna, Austria: Targeting aggressive NK cell leukemia: a preclinical Ink4a/Arf knockout mouse model reveals novel therapeutic strategies

15:15 - 15:45 Coffee break

15:45 - 17:00 Session 3: "Inflammation and Immune Responses in Metabolic Disease" (chairperson: Johannes GRILLARI)

15:45 - 16:15 Daniel WINER, Novato, CA, USA: The intestinal immune system in obesity-related insulin resistance

16:15 - 16:45 Carolin DANIEL, Munich, Germany: *Treg-based immune metabolic crosstalk in diabetes*

16:45 - 17:00 Short Talk: Kanella PRODROMIDOU, Boston, Massachusetts, USA: *Identification of a novel metabolic immunomodulator in gastric cancer that regulates type I interferon pathway*

18:00 Dinner

Tuesday, September 9, 2025

08:00 - 09:00 Breakfast with an expert

09:00 - 10:45 Session 4: "B Cell Aging and Metabolism" (chairperson: Marta IBORRA PERNICHI)

09:00 - 09:30 Michelle LINTERMAN, Wellington, New Zealand: Ageing and the response to vaccination

09:30 - 10:00 Ranjan SEN, Baltimore, MD, USA: Epigenetic regulation B cell development during aging

10:00 - 10:15 Short talk: Sarah SPÖCK, Innsbruck, Austria: Loss of TET enzymes drives clonal expansion of age-associated B cells and promotes B cell lymphomagenesis

10:15 - 10:30 Short talk: Emmanuel DERUDDER, Innsbruck, Austria: *miRN-Adependent modulation of age-associated B cell physiology*

10:30 - 10:45 Short talk: Kirsten HICKS, Perth, Australia: *Divergent inflammatory and metabolic adaptation of bone marrow sites with age: protective qualities of the calvaria*

10:45 - 16:00 Break

16:00 - 17:45 Session 5: "The Role of Extracellular Vesicles in Aging and Senescence" (chairperson: Aleksandra TRIFUNOVIC) 16:00-16:30 Jerome LAMARTINE, France: Impact of chronological aging on communications mediated by EVs in skin: Focus on the fibroblast-keratinocyte crosstalk 16:30 - 17:00 Myriam GOROSPE, Baltimore, MD, USA: Insights into cell senescence from RNA biology 17:00 - 17:30 Thomas BROCKER, Munich, Germany: Interactions of extracellular vesicles with immune cells 17:30-17:45 Short talk: Lukas NARENDJA, Vienna, Austria: Engineering ASC-derived extracellular vesicles with VEGFC-CD81 fusion protein to promote lymphangiogenesis: a targeted therapy for aging associated lymphatic dysfunction 18:30 Dinner Wednesday, September 10, 2025 08:00 - 09:00 Breakfast with an expert 09:00 - 10:30 Session 6: "T cell Aging and Metabolism" (chairperson: Birgit WEINBERGER) 09:00 - 09:30 Enrique GABANDÉ-RODRIGUEZ, Madrid, Spain: CD4+ cytotoxic T cells compromise healthy aging by inducing myelopoiesis 09:30 - 10:00 Ilaria ELIA, Leuven, Belgium: The metabolic cross-talk between T cells and cancer cells in the tumor microenvironment 10:00 - 10:15 Short talk: Tomas ZELENKA, Tampa, Florida, USA: Age-induced innate-likereprogramming of CD8 T cells in LUAD progression 10:15 - 10:30 Short talk: Delphine SAUCE, Paris, France: Metabolic activation and mitochondrial stress characterize aging human hematopoietic progenitor cells 10:30 - 12:00 Posters and coffee: Posters with odd numbers 12:00 - 13:00 Interactive Session 2: Equal Opportunities in Science Rosa RAU, Innsbruck, Austria Sabine ENGEL, Innsbruck, Austria 13:00 - 14:00 Lunch 14:00 - 15:30 Posters and coffee: Posters with even numbers 15:30 - 17:00 Session 7: "Inflammation, Autophagy and Cell Death" (chairperson: Verena LABI) 15:30 - 16:00 Katja SIMON, Berlin, Germany: Autophagy's role in the aging of the immune system 16:00 - 16:30 Manolis PASPARAKIS, Cologne, Germany: Regulation of necroptosis and its role in inflammation 16:30 - 17:00 Elvira MASS, Bonn, Germany: Developmental programming of tissue-resident macrophages 17:00 - 18:30 Interactive Session 3: Hot topics: Pro & Contra Discussion and drinks 18:30 Dinner Thursday, September 11, 2025 08:00 - 09:00 Breakfast with an expert 09:00 - 10:30 Interactive Session 4: Entrepreneurship Klaus WEINBERGER, Innsbruck, Austria 10:30 - 11:00 Coffee break 11:00 - 12:30 Session 8: "Inflammaging in Various Tissues" (chairperson: Katja SIMON) 11:00 - 11:30 Stefano PLUCHINO, Cambridge, UK: Mitochondrial regulation of microglia function in MS-like disease 11:30 - 12:00 Christina D. CAMELL, MN, USA: Adipose tissue leukocytes and impaired metabolism during aging 12:00-12:15 Short talk: Lisa KLEISSL, Vienna, Austria: Interplay of structural changes in skin tissue during aging and the progression of chronic inflammatory skin diseases 12:15 - 12:30 Zinaida SHAKEL, Porto, Portugal: β-carotene-loaded solid lipid nanoparticles drive hyaluronic acid stimulation in skin models: a strategy against ageing 12:30 - 13:00 Poster and short presentation prizes 13:00 Farewell

