

**Session I*****Adaptive Immunity***

- A. Kirsch** Role of TH9 cells in nephrotoxic serum nephritis
- A. E. Puck** The soluble cytoplasmic tail of CD45 (ct-CD45) induces a non-canonical form of energy in human T cells
- A. Zwirzitz** Localization and functional consequences of differential GPI-anchor signal sequences
- E. Sahin** PI3K/PTEN axis in APCs is regulating Th17-dependent autoimmune pathology
- L.J. Karleusa** Differences in endocytic pathway of CD44 molecule in comparison with other molecules

**Session II*****Immunity to Infection***

- D. Wilflingseder** Antibodies attenuate the capacity of dendritic cells to stimulate HIV-specific CTLs
- A. Artenjak** Activation of human endothelial cells by high avidity anti- $\beta$ 2-glycoprotein I antibodies triggers the migration of monocytes and is intensified in conditions with elevated serum amyloid A
- I. Schabussova** Extracts of the nematode *Oesophagostomum dentatum* modulate responses to vaccines and prevent the development of airway inflammation in a mouse model of birch pollen allergy
- R. Wurzner** Shiga toxin 2 binds and modulates complement regulatory proteins in the fluid phase and on host cell membranes
- V. Vojvoda** Type-1 and type-2 chemokine receptors on lung T cells during acute RSV infection in infants

**Session III*****Clinical Immunology***

- E. Garner Spitzer** TBE- and hepatitis B non-responders feature different immunologic mechanisms in response to TBE and influenza vaccination with involvement of regulatory T- and B-cells and IL-10
- E. Svobodova** Preoperative HLA-specific antibodies predict antibody-mediated rejection in heart transplant recipients
- F. Wensveen** Type 1 innate lymphoid cells promote obesity-induced insulin resistance by driving M1 macrophage differentiation
- G. Papp** Monitoring therapeutic efficacy of photopheresis – treatment cycles in the light of clinical and laboratory markers

**M. Rijavec** Hereditary angioedema nationwide study in Slovenia reveals four novel mutations in SERPING1 gene

**Session IV** *Allergology*

**A. Neunkirchner** Exclusive aeroallergen exposure induces airway inflammation and airway reactivity in humanized allergy mice expressing a human mugwort-specific T-cell receptor and HLA-DR1

**P. Korosec** Anaphylaxis induces a marked reduction in circulating blood basophils: An emergency department-based study

**U. Pichler** The fold-variant BM4 is beneficial in a therapeutic Bet v 1 mouse model

**M. Zidarn** Sustained effect of grass pollen SCIT on desensitization of allergen-specific basophil response

**C. Madritsch** High density IgE recognition of the major grass pollen allergen, Phl p 1, revealed with single chain IgE antibody fragments obtained by combinatorial cloning

**Session V** *Mucosal and Clinical Immunology*

**J. Akgun** Induction of mucosal tolerance against type I allergy with structurally different antigens - Studies on underlying mechanisms

**L. Deban** RGS1 as a regulator of intestinal T cell responsiveness

**M. Buc** HLA-DQA1 and DQB1 in celiac disease predisposition in Slovaks

**M. Hornova** Gut barrier function is modulated by microbiota and by systemic inflammation

**T. Grubic Kezele** Hepatic metallothioneins I+II, GP96, IL-6 and TGF- $\beta$  as potential regulators of strain-dependent susceptibility to experimental autoimmune encephalomyelitis in rats

**Session VI** *Innate Immunity*

**V. Juranic** Complex recognition of MCMV infected cells by activating Ly49 receptors

**C. Machacek** Deciphering the function of the folate receptor beta

**M. Szell** Studies on abnormal keratinocyte functions in the early steps of psoriasis pathomechanism

**N. Kopitar Jerala** Cysteine cathepsin inhibitor Stefin B (Cysatin B) influence NLRP3 inflammasome activation

**T. Kelava** The important role of Pentraxin 3 in bone formation and fracture healing

**Session VII** ***Tumor Immunology***

**E.M. Putz** CDK8-mediated STAT1-S727 phosphorylation restrains NK cell cytotoxicity and tumor surveillance

**J. Fazekas** A xenogeneic CEA-vaccination study in canine mammary carcinoma patients

**M. Kuttke** The Role of the myeloid PI3K Pathway in Colorectal Cancer Tumor Immunity

**L. Sivak** Overcoming multidrug resistance with inhibitor of ABC transporters bound to HPMA copolymer carrier as a potential therapeutic approach in cancer treatment

**V. Jelencic** Enhanced NK cell-dependent surveillance of tumours in NKG2D-deficient mice

**Session VIII** ***Vaccines & New Approaches to Immunotherapy***

**D. Wojta** Co-stimulatory potency of interleukin 2 applied as 'natural adjuvant' bound to virus-like nanoparticles is critically influenced by its membrane-anchor characteristics

**C. Cabauatan** Epicutaneous patch vaccination with recombinant major birch pollen allergen Bet v 1 induces allergen-specific blocking IgG antibodies in guinea pigs

**Z. Zidek** Prospective immunosuppressive compounds: derivatives of pyrimidine

**A. Tomic** Cytomegalovirus expressing NKG2D ligand delays growth of poorly immunogenic melanoma

**N. Lalek** Allergen threshold sensitivity and inhibition effects of IgG antibodies during subcutaneous birch pollen immunotherapy