

2nd Meeting of Middle-European Societies for Immunology and Allergology

Thursday - Sunday
October 10-13 2013
Opatija, Croatia

Program

Thursday, 10th October

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| 12.00 – ... | Arrival, Registration |
| 14.00 – 17.00 | General Assemblies |
| 17.00 – 17.30 | Introduction |
| 17.30 – 18.15 | Special guest speaker: Lorenzo Moretta , President of EFIS
<i>Human NK cells: from bench to bedside</i> |
| 18.15 – 19.00 | Keynote speaker: Adrian Hayday
<i>Epithelial regulation of immunity: molecular interactions that communicate stress and normality</i> |
| 19.00 – 20.00 | Welcome drink |

Friday, 11th October

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| Session I | Adaptive Immunity |
| 08.30 – 09.00 | Hans-Reimer Rodewald
<i>T cell progenitors and T cell leukemia</i>
German Cancer Research Center
Heidelberg, Germany |
| 09.00 – 10.00 | Selected oral presentations
A. Kirsch <i>Role of TH9 cells in nephrotoxic serum nephritis</i>
A. E. Puck <i>The soluble cytoplasmic tail of CD45 (ct-CD45) induces a non-canonical form of energy in human T cells</i>
A. Zwirzitz <i>Localization and functional consequences of differential GPI-anchor signal sequences</i>
E. Sahin <i>PI3K/PTEN axis in APCs is regulating Th17-dependent autoimmune pathology</i>
LJ. Karleusa <i>Differences in endocytic pathway of CD44 molecule in comparison with other molecules</i> |
| 10.00 – 10.30 | Stipan Jonjić
<i>Superior induction and maintenance of protective CD8 T cells with mouse cytomegalovirus vector expressing NKG2D ligand AE-1γ</i>
Medical Faculty University of Rijeka
Rijeka, Croatia |

10.30 – 11.00

Coffee Break

Session II

Immunity to infection

11.00 – 11.30

René A. W. van Lier

Regulation of cd8+ effector T cell function

Sanquin Blood Supply Foundation
Amsterdam, Netherlands

11.30 – 12.30

Selected oral presentations

- 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- β 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. Wurznner 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

12.30 – 13.00

Mathias Mueller

Canonical and non-canonical tyrosine kinase 2 (Tyk2)

functions in gut inflammation and cancer immune surveillance

Medical University of Vienna
Vienna, Austria

13.00 – 14.00

Lunch

Session III

Clinical Immunology

14.00 – 14.30

Anna Erdei

The role of complement in autoimmune disorders – regulation of B cell functions in RA and SLE

Department of Immunology, University L.Eotvos
Budapest, Hungary

14.30 – 15.30

Selected oral presentations

- E. G.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

15.30 – 16.00 **Norbert Zilka**
*Multifaceted Neuro-Immune Crosstalk in Alzheimer's Disease -
Can we tune up the neuroinflammation?*
Institute of Neuroimmunology of the Slovak Academy of Science
Bratislava, Slovakia

16.00 – 16.15 *Coffee Break*

Session IV **Allergology**

16.15 – 16.45 **Rudolf Valenta**
Allergens and allergen-specific immunotherapy
Medical University of Vienna
Vienna, Austria

16.45 – 17.45 Selected oral presentations

- 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 p1, revealed with single chain IgE antibody fragments obtained by combinatorial cloning

17.45 – 18.00 *Coffee Break*

18.00 – 18.30 **Andras Falus**
Histamine biology: from traditional allergy research to high-throughput genomics
Semmelweis University
Budapest, Hungary

18.30 – 19.00 **Mitja Košnik**
Anaphylaxis: a severe form of allergic rhinitis or beyond
University Clinic of Respiratory and Allergic Diseases
Golnik, Slovenia

20.30 Gala Dinner at hotel Kvarner

Saturday, 12th October

Session V **Mucosal and Clinical Immunology**

08.30 – 09.00 **Miodrag Lukić**
IL33/ST2 axis in immunopathology and tumor progression
Faculty of Medicine
University of Kragujevac, Serbia

09.00 – 10.00 Selected oral presentations

- 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. G. Kezele	Hepatic metallothioneins I+II, GP96, IL-6 and TGF- β as potential regulators of strain-dependent susceptibility to experimental autoimmune encephalomyelitis in rats
	J. Akgun	Induction of mucosal tolerance against type I allergy with structurally different antigens - Studies on underlying mechanisms
10.00 – 10.30	Margit Zeher	<i>Role of follicular T-helper cells in the pathogenesis of autoimmune diseases</i> Medical and Health Centre, University of Debrecen, Debrecen, Hungary
10.30 – 11.00		<i>Coffee Break</i>
Session VI		<i>Innate Immunity</i>
11.00 – 11.30	Ofer Mandelboim	<i>Urinary pathogenic E.coli kill Natural Killer cells to establish urinary tract infection</i> Hebrew University of Jerusalem Jerusalem, Israel
11.30 – 12.30		Selected oral presentations
	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. K. 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
12.30 – 13.00	Ilja Striž	<i>Cytokine interactions between human macrophages and epithelial cells</i> Institute for Clinical and Experimental Medicine Prague, Czech Republic
13.00 – 14.00		<i>Lunch</i>
14.00 – 20.00		Guided Tour – Rijeka
21.00 – ...		Poster presentation

Sunday, 13th October

Session VII

Tumor Immunology

08.30 – 09.00

Thomas Blankenstein

Spontaneous and therapy-induced T cell responses to cancer

Max-Delbrück-Center for Molecular Medicine

Berlin, Germany

09.00 – 10.00

Selected oral presentations

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| 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 |

10.00 – 10.30

Veronika Sexl

STATs in the spotlight of NK biology

University of Veterinary Medicine

Vienna, Austria

10.30 – 11.00

Coffee Break

Session VIII

Vaccines & New Approaches to Immunotherapy

11.00 – 11.30

Michael A. Jarvis

Persistent Vector-based Vaccine Strategies for Infectious Disease & Cancer

University of Plymouth

Plymouth, UK

11.30 – 12.30

Selected oral presentations

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|--------------|---|
| 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 |

12.30 – 13.00

Radek Spišek

Cancer immunotherapy of the prostate cancer by dendritic cells loaded with immunogenic tumor cells

Charles University's 2nd Faculty of Medicine

Prague, Czech Republic

13.00

Meeting conclusion