

# 6th Meeting of Middle European Societies of Immunology and Allergology



**DAY 1** WEDNESDAY, 15.4.2026

<b>11:00</b> Registration				
<b>12:15</b>		<b>Rising star</b>	<i>Chair: Hafner Bratkovič Iva (SLO) / Polić Bojan (CRO)</i>	
<b>12:15</b> – <b>14:00</b>	<b>RS.01</b> 20 min	Unveiling the Immune System's Surprising Role: Mastering Glucose Metabolism in Health and Disease	<b>M Šestan</b>	<b>Croatia</b>
	<b>RS.02</b> 20 min	Revealing vesicular communication pathways in 2D and 3D tumor models	<b>T Böröczky</b>	<b>Hungary</b>
	<b>RS.03</b> 20 min	Identification of antibodies suitable for a receptor-mediated transcytosis delivery system for the CNS	<b>K Pichlerová</b>	<b>Slovakia</b>
	<b>RS.04</b> 20 min	How Rapid Can We Be? Experience with Our One-Day Ultra-Rush VIT Initiation Protocol Using Depot Preparations	<b>T Balner</b>	<b>Czech Republic</b>
	<b>RS.05</b> 20 min	Tumor microenvironment in rare skin neoplasms	<b>J Strobl</b>	<b>Austria</b>
<b>14:00</b> Coffee break				
<b>14:30</b>		<b>Symposium in Memory of Prof. Ihan</b>	<i>Chair: Kopitar Andreja Nataša (SLO) / Vukman Krisztina (HUN)</i>	
<b>14:30</b> – <b>15:35</b>	<b>YI.1.01</b> 8 min	Metabolic modulation with 2-deoxy-D-glucose alters T lymphocyte functions	<b>T Frlic</b>	<b>Slovenia</b>
	<b>YI.1.02</b> 8 min	Decreased serum levels of neutralising anti-IL-6 autoantibodies in idiopathic inflammatory myopathies	<b>A Srpčič</b>	<b>Slovenia</b>
	<b>YI.1.03</b> 8 min	Irradiation-induced trained immunity of natural killer cells in mouse tumors	<b>T Božič</b>	<b>Slovenia</b>
	<b>YI.1.04</b> 8 min	The CAR-Cytotox score: a unified framework for measuring CAR T cell cytotoxicity	<b>L Sršen</b>	<b>Slovenia</b>
	<b>YI.1.05</b> 8 min	Expression of inducible damage-associated molecular patterns after interleukin-12 gene electrotransfer in cancer cell lines	<b>A Medved</b>	<b>Slovenia</b>
	<b>YI.1.06</b> 8 min	Immunogenicity of luciferase suppresses tumor formation in an orthotopic K7M2luc osteosarcoma model	<b>S Kupčič</b>	<b>Slovenia</b>
	<b>YI.1.07</b> 8 min	Governing immunogenic cell death through transcriptional and translational control	<b>T Železnik Ramuta</b>	<b>Slovenia</b>
	<b>YI.1.08</b> 8 min	Proteome Analysis of Minor Salivary Glands Identifies Clinically and Molecularly Distinct Patient Subgroups in Sjögren's Disease	<b>N Štucin</b>	<b>Slovenia</b>
<b>15:35</b> Coffee break				
<b>15:55</b>		<b>Symposium in Memory of Prof. Ihan</b>	<i>Chair: Gašper Markelj (SLO) / Altrichter Sabine (AUT)</i>	
<b>15:55</b> – <b>17:00</b>	<b>YI.2.01</b> 8 min	Identification of IgE epitope-like peptides of peanut allergen Ara h 1	<b>A Potočnik</b>	<b>Slovenia</b>
	<b>YI.2.02</b> 8 min	Hereditary $\alpha$ -tryptasemia in children with peanut-induced anaphylaxis	<b>T Pungertnik</b>	<b>Slovenia</b>
	<b>YI.2.03</b> 8 min	Systemic immunomodulation as the new paradigm for severe atopic dermatitis in the young paediatric population	<b>M Škulj</b>	<b>Slovenia</b>
	<b>YI.2.04</b> 8 min	Comparison of ImmunoCAP ISAC and ALEX2 ALLERGY XPLOER	<b>I Hasanović</b>	<b>Slovenia</b>
	<b>YI.2.05</b> 8 min	Candidate variants associated with Hereditary Angioedema with normal C1-Inhibitor	<b>H Jakopič</b>	<b>Slovenia</b>
	<b>YI.2.06</b> 8 min	Diagnostic Comparison of Basophil Activation Test and Specific IgE to Venom Components in Hymenoptera-Allergic Patients with Low or Negative Venom-Specific IgE	<b>L Dejanović</b>	<b>Slovenia</b>
	<b>YI.2.07</b> 8 min	Diverse cellular scaffolds induce NLRP3 clustering toward inflammasome formation	<b>E Boršič Mlinarič</b>	<b>Slovenia</b>
	<b>YI.2.08</b> 8 min	Development of a platform for production of monoclonal antibodies against membrane proteins on the model of BCMA	<b>P Kern</b>	<b>Slovenia</b>
<b>17:30 – 17:50</b> Welcome address and formal opening of the congress				
<b>17:50– 18:40</b>		<b>Plenary lecture</b>	<i>Chair: Čurin Šerbec Vladka (SLO) / Kopač Peter (SLO)</i>	
	<b>P.1</b> 50 min	Living Cures: the Next Evolution in Cellular Medicine	<b>Daniel J. Powell Jr.</b>	<b>USA</b>
<b>18:40 – 21:00</b> 50th anniversary of Immunology Society of Slovenia and formal opening of the congress				
<b>Reception</b>				

# DAY 2 – MORNING THURSDAY, 16.4.2026



## SESSION 1: From Mast Cells to Memory T Cells: New Frontiers in Allergy and Asthma

08:00 Chair: Kopač Peter (SLO) / Vannucci Luca (CZ)

08:00 – 09:45	S1.01.P 30 min	Mast cells and their progenitors in asthma – My perspective	J Hallgren Martinsson	Sweden
	S1.02.P 20 min	Epigenetic regulation of pathogenic T cells driving allergic airway inflammation	N Boucheron	Austria
	S1.03.P 20 min	Mast cell degranulation and vesiculation	K Vukman	Hungary
	15 min	Discussion		
	S1.04.S 20 min	The epithelial alarmin axis in severe asthma and why TSLP matters: From Pathway to Patients	P Korošec / A Ilovar Bezjak	ASTRA ZENECA

09:45 Coffee break

## SESSION 2: Type 2 Inflammation in Asthma and Allergic Disease

10:15 Chair: Hallgren Martinsson Jenny (SWE) / Boucheron Nicole (AUT)

10:15 – 12:10	S2.01.I 15 min	Resident memory T cells in atopic dermatitis	Z Dajnoki	Hungary
	S2.02.I 15 min	Autoreactive IgE in Dermatological Diseases	S Altrichter	Austria
	S2.03.I 10 min	Bronchial hyperreactivity is associated with T2 inflammation and loss of asthma control: evidence from a cross-sectional study in pediatric patients	I Topalušić	Croatia
	S2.04.I 10 min	Linking Gastroesophageal Reflux Characteristics to Airway Inflammation in Severe Preschool Wheeze	I Topalušić / I Pavić	Croatia
	20 min	Discussion		
	S2.05.S 20 min	Top-down approach and Ratio analysis in Allergy Diagnostics	O Luengo	LKB
	S2.06.S 15 min	Towards a Next-Gen and Streamlined Basophil Activation Test	J-M Busnel	HERMES - ANALITICA

12:10 Coffee break

## SESSION 3: Immune Regulation in Health and Disease: Mechanisms, Monitoring and Targets

12:30 Chair: Kovač Valerija (SLO) / Antica Mariastefania (CRO)

12:30 – 13:55	S3.01.P 20 min	Inhibition of homeostatic regulators in a tissue elicits an underhand inflammation that drives the microenvironment toward pathologic evolution	L Vannucci	Czech Republic
	S3.02.I 15 min	Human thymic epithelial stem cells for lymphocyte development	M Antica	Croatia
	S3.03.I 15 min	Exposure to micro and nanoplastics on markers of inflammatory immune response in allergic children	M Turkalj	Croatia
	S3.04.I 15 min	Expanding testing to monitor the immunological status of patients after heart transplantation	S Montanič	Slovenia
	S3.05.I 10 min	Values of salivary cortisol and interleukin-1 $\beta$ , perceived stress and clinical features of patients with dermographic urticaria, patients with chronic spontaneous urticaria and healthy individuals	L Lugović-Mihić	Croatia
	10 min	Discussion		

13:55 – 15:00 Lunch

**DAY 2 – AFTERNOON** THURSDAY, 16.4.2026**15:00** **SESSION 4: Harnessing Immunity in Cancer: Novel Therapeutic Platforms and Tumor Microenvironments**  
*Chair: Janžič Urška (SLO) / Gácser Attila (HUN)*

15:00	S4.01.S 20 min	How has immunotherapy changed oncological treatment: from theory to prolonged survival	<b>U Janžič</b>	<b>MSD</b>
	S4.02.P 20 min	Therapeutic application of antibody–drug conjugates and vaccines in solid tumor patients	<b>S Borštnar</b>	<b>Slovenia</b>
15:00 –	S4.03.P 20 min	From GVL to CAR-T therapy	<b>P Novak</b>	<b>Slovenia</b>
16:40	S4.04.I 15 min	Spatial immune niches as determinants of anti-tumor immunity in ovarian cancer	<b>J Fucikova</b>	<b>Czech Republic</b>
	10 min	Discussion		
	S4.05.S 15 min	Redefining lung cancer care: the immunotherapy era	<b>M Unk</b>	<b>MEDISON</b>

**16:40 - 17:50** **Coffee break****16:40 - 17:50** **Poster session**  
P1.01 - P1.20**17:50** **SESSION 5: Cancer–Immune Crosstalk: Microbial Interactions, Cell Death and Immune Profiling**  
*Chair: Jesenko Tanja (SLO) / Jitka Palich Fučíková (CZ)*

17:50 –	S5.01.S 15 min	Rybrevant – innovative targeted therapy for patients with EGFR positive non-small cell lung cancer	<b>U Janžič</b>	<b>Johnson &amp; Johnson</b>
	S5.02.P 20 min	Candida species on oral cancer: insights into pathogenesis and interaction	<b>A Gácser</b>	<b>Hungary</b>
17:50 –	S5.03.P 20 min	Inflammasome-inspired induction of immunogenic cancer cell death	<b>I Hafner Bratkovič</b>	<b>Slovenia</b>
19:15	S5.04.I 15 min	Immunoprofiling of Gamma Delta T cells and their potential for the development of cancer immunotherapies	<b>A Smole</b>	<b>Slovenia</b>
	15 min	Discussion		

**20:00** **Formal congress dinner**

**DAY 3 FRIDAY, 17.4.2026**

**8:00 SESSION 6: Autoimmunity and Immune Dysregulation: From Mechanisms to Clinical Innovation**
*Chair: Rijavec Matija (SLO) / Ellmeier Wilfried (AUT)*

08:00 – 10:00	S6.01.P 20 min	Systemic vasculitides through the lens of a rheumatologist – IgA vasculitis in adults	<b>A Hočevar</b>	<b>Slovenia</b>
	S6.02.P 20 min	The role of histone deacetylases in the control of T cell-mediated immunity	<b>W Ellmeier</b>	<b>Austria</b>
	S6.03.I 15 min	Organ-on-a-chip platform of a human joint for evaluating response to treatment of inflammatory arthritides	<b>A Sucur</b>	<b>Croatia</b>
	S6.04.I 15 min	The role of microRNAs in the development of systemic autoimmune diseases	<b>G Papp</b>	<b>Hungary</b>
	S6.05.I 15 min	New trends in laboratory transplantology	<b>A Čereš</b>	<b>Slovakia</b>
	S6.06.I 10 min	The brain's Trojan war: Local brain immunity may modulate Alzheimer's disease neurodegeneration	<b>N Basheer</b>	<b>Slovakia</b>
	S6.07.I 10 min 15 min	Neuroimmune effects of environmental and dietary enrichment in an AD model Discussion	<b>V Stuchlikova</b>	<b>Slovakia</b>

**10:00 – 11:00 Coffee break**
**10:00 – 11:00 Poster session (P2.01 - P2.20)**
**11:00 SESSION 7: Inborn Errors of Immunity: From Genetics to Clinical Complexity**
*Chair: Kačar Mark (SLO) / Jeseňák Miloš (SK)*

11:00 – 13:15	S7.01.P 20 min	Autoinflammatory disorders in Slovakia - unexpected results from awareness campaigns	<b>M Jeseňák</b>	<b>Slovakia</b>
	S7.02.P 20 min	The Immunological Basis of Lung Disease in Primary Antibody Deficiencies: Exploring B Cell Dysfunction	<b>T Milota</b>	<b>Czech Republic</b>
	S7.03.I 15 min	Role of genetics in IEI	<b>G Markelj</b>	<b>Slovenia</b>
	S7.04.I 15 min	Beyond enteroviral meningitis: chronic neurological sequelae of XLA	<b>M Bizjak</b>	<b>Slovenia</b>
	S7.05.I 10 min	IEI screening in Slovakia - first experiences	<b>P Čižnár</b>	<b>Slovakia</b>
	S7.06.I 10 min 15 min	Complexity of IEI in adults - one centre experience Discussion	<b>A Bobčáková</b>	<b>Slovakia</b>
	S7.06.S 15 min S7.07.S 15 min	Translating biomarkers into personalized care for hereditary angioedema Redefining the trajectory of allergic rhinitis	<b>M Rijavec</b> <b>M Kačar</b>	<b>TAKEDA</b> <b>Ewopharma</b>

**13:15 – 14:30 Lunch**
**14:30 SESSION 8: Innate Immunity in Infection, Tissue Remodeling and Adaptive Crosstalk**
*Chair: Eiwegger Thomas (AUT) / Milota Tomas (CZ)*

14:30 – 15:35	S8.01.I 15 min	Immunological mechanisms of oral immunotherapy	<b>T Eiwegger</b>	<b>Austria</b>
	S8.02.P 20 min	Mechanistic insights into the protective role of lactoferricin in SARS-CoV-2 infection	<b>V Leksa</b>	<b>Slovakia</b>
	S8.03.P 20 min	Inflammation and bone remodeling	<b>D Grcević</b>	<b>Croatia</b>
	S8.04.I 15 min 20 min	How Signaling Pathways Shape T-Cell Diversity in Phenotype and Function Discussion	<b>O Štěpánek</b>	<b>Czech Republic</b>

**16:00 - 16:30 Coffee break**
**16:30 SESSION 9: Innate Immunity in Viral Defense, Neuroinflammation and Reproductive Health**
*Chair: Božič Borut (SLO) / Lekša Vladimír (SK)*

16:30 – 17:35	S9.01.P 20 min	Innate immune responses against cytomegalovirus infection in the ovary	<b>V Juranić Lisnić</b>	<b>Croatia</b>
	S9.02.I 15 min	Microglial priming balances latent virus control and synaptic loss	<b>I Brizić</b>	<b>Croatia</b>
	S9.03.I 15 min	IFN $\gamma$ is necessary for <i>Lactiplantibacillus plantarum</i> -mediated growth promotion in undernourished mice	<b>M Schwarzer</b>	<b>Czech Republic</b>
	S9.04.I 15 min	Discussion		

**17:35 End of Congress MESIA 2026**

– 25 min Best poster presentation award winners announcement

**18:00** Closing remarks

# MESIA 2026: Poster session (P1.01 - P1.20)



**DAY 2** THURSDAY, 16.4.2026, 16:40 - 17:50

P1.01	Sara Simonič	Performance evaluation of indirect immunofluorescence kits for endomysial antibodies (EMA IgA) detection in the diagnostic algorithm of coeliac disease
P1.02	Manca Svetina	Baseline serum tryptase level is defined by genetic variation at the tryptase locus
P1.03	Urša Žibert	The role of fibulin-3 in plasma and pleural effusion as a potential biomarker of mesothelioma
P1.04	Maja Černilec	Prevalence of Severe Immunoglobulin A Deficiency among Slovene Blood Donors
P1.05	Katarina Kouter	Altered gene expression of the complement system genes and suicidality
P1.06	Valeriya Musina	Protease-dependent activation of a superantigen for local T-cell stimulation
P1.07	Maša Omerzel	Combination of Electrochemotherapy and Anti-PD-1 Immunotherapy in Murine Tumors
P1.08	Urša Lamprecht Tratar	Evaluation of antitumor immune response induced by intratumoral or peritumoral interleukin-12 gene electrotransfer combined with electrochemotherapy in canine mast cell tumors
P1.09	Tanja Jesenko	Frequency and morphological characteristics of circulating tumour cell clusters isolated from central venous blood of patients with early breast cancer
P1.10	Dóra Adamecz	Metal nanoparticles as potential modulators of tumor cell-macrophage crosstalk
P1.11	Špela Konjar	Metabolic reprogramming of intestinal CD8 T cells during activation
P1.12	Anikó Kapitány	LL37 As A Potential Biomarker To Distinguish Between Atopic Eczema And Psoriasis
P1.13	Viktória Nagy	Expression pattern of IL-1 family cytokines in the epidermis of atopic dermatitis patients
P1.14	Renata Toth	microRNA-mediated regulation of Oral Squamous Cell Carcinoma responses during Candida infection
P1.15	Maja Cokarić Brdovčak	Development of novel monoclonal antibodies targeting viral proteins
P1.16	Gbenga Folorunsho Oginni	Quantitative detection of microcystis aeruginosa in fresh water using single domain antibodies (VHHS)
P1.17	Katja Leben Zupet	Precise immunophenotyping of mouse regulatory T cells
P1.18	Urška Rupnik	Development of approaches for isolation, activation and expansion of gamma delta T cells
P1.19	Andrea Šarac	Optimization of CRISPR/Cas9-Mediated TCR Knock-Out in primary mouse T cells
P1.20	Marija Rakić	Vitamin B complex suppresses LPS-induced neuroinflammation in activated microglia: in vitro and in silico insights

# MESIA 2026: Poster session (P2.01 - P2.20)



**DAY 3** FRIDAY, 17.4.2026, 10:00 – 11:00

P2.01	Borna Bacinger	The role of ninjurins in plasma membrane rupture
P2.02	Monika Gregorič Tasić	De novo designed minibinder proteins targeting NINJ1
P2.03	Nina Naprudnik	Persistent Eosinophilia in Severe Atopic Dermatitis: Differential Diagnostic Evaluation and Identification of Subtherapeutic Cyclosporine
P2.04	Judit Danis	Nucleic acid-driven expression and alternative splicing of Z-DNA binding Protein 1 in human keratinocytes
P2.05	Csikós Máté Lajos	Priming the Oral Epithelium: Candida parapsilosis Pre-Exposure Enhances Cytokine Responses and Alters Candida albicans Interactions
P2.06	Tímea Berki	Autoantibody mediated neurological diseases: laboratory diagnostics
P2.07	Péter Németh	Are immune dysregulation-associated alterations in pathological and natural autoantibody profiles associated with vaccine-induced anti-SARS-CoV-2 humoral responses?
P2.08	Tina Vesel Tanjšek	Case Report: Antiparasitic treatment can cure an ill child with eosinophilia despite unconfirmed parasitosis
P2.09	Böröcz Katalin	Altered natural autoantibody signatures associated with pathological autoantibody co-positivity in SAD-suggestive profiles
P2.10	Larisa Janžič	Dynamic macrophage immune responses distinguish inflammatory from immune-evasive strains of Group B Streptococcus
P2.11	Le Roux Alain	Serological quantification of lost immune tolerance: pathological autoantibody accumulation coincides with depletion of homeostatic natural autoantibody in the anti-TG/TPO-positive patients
P2.12	Jasna Omersel	HLA-B allele frequencies and HLA-B27 subtypes in Slovenian patients with ankylosing spondylitis treated with targeted therapies
P2.13	Nataša Kopitar Jerala	Cystatins as Endogenous Regulators of Innate Immune Responses in LPS-Induced Sepsis
P2.14	Ivana Bertović	Pathogenesis of MCMV infection in the adrenal gland
P2.15	Tomislav Kelava	Osteoclast Activity and Bone Mass Changes in a 3,5-Diethoxycarbonyl-1,4-Dihydrocollidine-Induced Cholestatic Liver Disease Model
P2.16	Iva Vladic	ILC1s mediate control of perinatal murine cytomegalovirus infection via NKG2D
P2.17	Simona Ivančan	Early etoposide is critical in Epstein-Barr virus-associated haemophagocytic lymphohistiocytosis: a paediatric case report
P2.18	Tanja Lunić	Immunomodulatory potential of moss Hypnum cupressiforme Hedw. extracts: in vitro and in silico study
P2.19	Lucie Zahradníčková	Impact of Early Postnatal Administration of Escherichia coli O83:K24:H31 on Immune System Maturation and Gut Barrier Function Authors
P2.20	Martin Petřek	Risk HLA variants for severe COVID-19 – a study from Olomouc, Czechia