

XVIITH CONGRESS OF THE POLISH SOCIETY FOR FUNDAMENTAL AND CLINICAL IMMUNOLOGY

DETAILED PROGRAM

DAY 1: Thursday, May 27, 2021

8:30 -10:00	<p>Opening ceremony Plenary lecture: The role of MHC and associated proteins in reproduction. <i>Nelson Fernandez, Essex, UK</i></p>		
10:00-11:30	Basic Immunology	Clinical Immunology and Immunotherapy	
		Part I	Part II
	<p><i>Innate immunity in protection of barrier sites and internal organs</i> Chairs: <i>Janusz Marcinkiewicz, Cracow, Poland</i> <i>Joanna Cichy, Cracow, Poland</i></p> <hr/> <p>10:00 – 10:15 Overview: Neutrophils as sentinel cells of the immune system - <i>Janusz Marcinkiewicz, Cracow, Poland</i></p> <p>10:15 – 10:40 Interplay between neutrophils, their NETs, and platelets in the liver: consequences for the outcome of sepsis - <i>Elżbieta Kołaczowska,</i></p>	<p><i>The expanding field of secondary immune deficiencies in adults: causes, diagnosis, and management</i> Chairs: <i>Jacek Roliński, Lublin, Poland</i> <i>Marcin Pasiarski, Kielce, Poland</i></p> <hr/> <p>10:00- 10:30 Immune-related adverse events of cancer therapies - <i>Jacek Roliński, Lublin, Poland</i></p> <p>10:30 – 11:00 Significance of preventive vaccinations in patients with secondary immunodeficiency disorders - <i>Marcin Pasiarski, Kielce, Poland</i></p> <p>11:00 – 11:30 Discussion</p>	<p><i>Immunology in personalized medicine</i> Chair: <i>Ewa Bryl, Gdansk, Poland</i></p> <hr/> <p>10:00 – 10:30 Heterogeneity of cytokines in rheumatoid arthritis patients - the road to personalized medicine - <i>Ewa Bryl, Gdańsk, Poland</i></p> <p>10:30 – 11:00 Personalized medicine in atopic dermatitis - where are we? - <i>Magdalena Trzeciak, Gdansk, Poland</i></p> <p>11:00 – 11:30 Discussion</p>

	<p><i>Cracow, Poland</i></p> <p>10:40 – 11:05 Neutrophils in pathogenesis of skin disease – psoriasis - <i>Joanna Cichy, Cracow, Poland</i></p> <p>11:05 – 11:30 Short communications and discussion:</p> <p>11:05 – 11:15 Clearance of extracellular proteins from liver vasculature during resolution of systemic inflammation visualized by intravital microscopy - <i>Michal Santocki, Elzbieta Kolaczowska, Cracow, Poland</i></p> <p>11-15 – 11:25 PMNs or LDNs, it is a question. On the way to find the type of neutrophils infiltrating lesional skin in mouse model of psoriasis-like dermatitis - <i>Patrycja Kwiecińska, Alicja Dziadowiec, Joanna Skrzeczyńska-Moncznik, Joanna Cichy, Cracow, Poland</i></p>		
11:30-11:45	Break		
11:45-13:30	<p style="text-align: center;"><i>Immunomodulation and Immunotoxicology</i></p> <p style="text-align: center;">Chairs: <i>Andrzej Siwicki, Olsztyn, Poland</i> <i>Ewa Jabłońska, Białystok, Poland</i></p> <hr/> <p>11:45 – 12:05 Immunomodulatory effect of xenobiotics - <i>Wioletta Ratajczak-Wrona, Białystok Poland</i></p>	<p style="text-align: center;"><i>Progress in diagnostics and treatment of primary immunodeficiencies</i></p> <p style="text-align: center;">Chairs: <i>Ewa Bernatowska, Warsaw, Poland</i> <i>Małgorzata Pac, Warsaw, Poland</i></p> <hr/> <p>11:45 – 12:05 Newborn screening for early diagnosis and treatment of severe combined immunodeficiency (SCID) - <i>Małgorzata Pac, Warsaw, Poland</i></p>	<p style="text-align: center;"><i>Rheumatology</i></p> <p style="text-align: center;">Chairs: <i>Ewa Bryl, Gdansk, Poland</i> <i>Maciej Siedlar, Cracow, Poland</i></p> <hr/> <p>11:45 – 12:10 Rheumatoid arthritis as a systemic autoimmune disease - the current concept - <i>Ewa Bryl, Gdansk, Poland</i></p> <p>12:10 – 12:35 Involvement of innate and adaptive arms of immune system in the pathogenesis of</p>

	<p>12:05 – 12:25 Role of circulating monocytes in response to air pollution - Jarosław Baran, Cracow, Poland</p> <p>12:25 – 12:45 The influence of selected bioelements on immune system function - Sylwia Terpiłowska, Andrzej K. Siwicki, Lublin, Olsztyn, Poland</p> <p>12:45-13:30 Short communications and discussion:</p> <p>12:45 – 12:55 Parabens – endocrine disrupting chemicals (EDCs) action on immune cells - Karolina Nowak, Ewa Jabłońska, Marzena Garley, Piotr Radziwon, Wioletta Ratajczak-Wrona, Białystok, Poland</p> <p>12:55 – 13:05 Particulate matter of air pollution promotes proinflammatory activity of Th lymphocyte subsets - Adrianna Gałuszka, Małgorzata Stec, Kazimierz Węglarczyk, Anna Kluczevska, Maciej Siedlar, Jarosław Baran, Cracow, Poland</p> <p>13:05 – 13:15 Coanalgesics modulate tramadol-induced immune effects in mice - Iwona Filipczak-Bryniarska, Katarzyna Nazimek, Michael Kozłowski, Krzysztof Bryniarski, Cracow, Poland</p> <p>13:15 – 13:25 Phagocytic activity of the monocyte-macrophage cell line (MM6) stimulated with infection agent (LPS or SEB) and exposed to low-frequency</p>	<p>12:05 – 12:25 Genotype-phenotype correlations in primary immunodeficiencies - Beata Wolska-Kuśnierz, Warsaw, Poland</p> <p>12:25 – 12:45 Advances in flow cytometry in Nijmegen Breakage Syndrome (NBS) - Barbara Piątosza, Warsaw, Poland</p> <p>12:45 – 13:05 Skin changes in NBS patients - Edyta Heropolitanska–Pliszka, Warsaw, Poland</p> <p>13:05–13:30 Short communications and discussion:</p> <p>13:05 – 13:15 Atypical manifestation of APDS 1 - Nadezda Bohynikova, B. Wolska- Kusnierz, N. Dabrowska-Leonik, D. Gladysz, K. Bernat-Sitarz, M. Skomska-Pawliszak, D. Skoczynska, B. Piatosa, M. Kacprzak, M. Pac, Warsaw, Poland</p> <p>13:15 – 13:25 Diagnosis and Treatment of Patients with ADA Deficiency: a Single-Centre Experience - Nel Dąbrowska-Leonik¹, K. Bernat-Sitarz¹, B. Wolska-Kuśnierz¹, M. Skomska-Pawliszak¹, N. Bohynikova¹, E. Bernatowska¹, B. Piątosza¹, E. Słomińska², K. Fabianowska-Majewska³, D. Gładysz¹, M. Pac¹, ¹ – Warsaw, Poland, ² – Gdansk, Poland, ³ – Lodz, Poland</p>	<p>spondyloarthritis - Maciej Siedlar, Mariusz Korkosz, Cracow, Poland</p> <p>12:35 – 13:00 Epigenetic mechanisms in autoimmune response - Marzena Ciechomska, Warsaw, Poland</p> <p>13:00–13:30 Short communications and discussion:</p> <p>13:00 – 13:10 Association of surface expression of the CD94 and NKG2D receptors with rheumatoid arthritis - Milena Iwaszko, Agnieszka Chrobak, Jerzy Świerkot, Piotr Wiland, Katarzyna Bogunia-Kubik, Wrocław, Poland</p> <p>13:10 – 13:20 Can miRNA profiling be helpful in distinguishing rheumatic disorders? - Monika Chaszczewska-Markowska, Katarzyna Gebura, Jerzy Swierkot, Renata Sokolik, Bartosz Bugaj, Katarzyna Bogunia-Kubik, Wrocław, Poland</p>
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	<p>pulsed electromagnetic field (LF-PEMF; 7 Hz, 30 mT) analyzed by flow cytometry method – <i>Piotr Piszczek, Bernadeta Nowak, Karolina Wójcik-Piotrowicz, Piotr Guzdek, Krzysztof Gil, Jolanta Kaszuba-Zwoińska, Cracow, Poland</i></p>		
13:30-14:00	Break		
14:00-15:00	<p>Plenary lecture CAR- T cell approaches to AML treatment <i>Yupo Ma, NY, USA</i></p>		
	<p><i>Current advancements in basic immunology</i> Chair: <i>Krzysztof Bryniarski, Cracow, Poland</i></p> <hr/> <p>15:00 – 15:30 Immune aspects of the functions of non-coding microRNA and extracellular vesicles - <i>Krzysztof Bryniarski, Cracow, Poland</i></p> <p>15:30 – 16:00 Alveolar lymphocytes - facts and myths - <i>Piotr Kopiński, Bydgoszcz, Poland</i></p> <p>16:00–16:30 Short communications and discussion:</p> <p>16:00 – 16:10 Extracellular vesicles suppress immune response in an antigen-specific manner after coating with antigen-specific antibody light</p>	<p><i>Tumor immunology and immunotherapy</i> Chairs: <i>Andrzej Mackiewicz, Poznan, Poland</i> <i>Joanna Domagała-Kulawik, Warsaw, Poland</i> <i>Witold Lasek, Warsaw, Poland</i></p> <hr/> <p>15:00 – 15:20 Evolving role of the immune system in the process of cancer development - <i>Witold Lasek, Warsaw, Poland</i></p> <p>15:20 – 15:40 Molecular mechanisms of cancer vaccination - <i>Patrycja Czerwińska, Poznan, Poland</i></p> <p>15:40 – 16:00 PD-1/PD-L1,2 pathway as target for lung cancer therapy - <i>Joanna Domagała –Kulawik, Warsaw, Poland</i></p> <p>16:00-16:30 Short communications and discussion:</p> <p>16:00 – 16:10 Tumor microvesicles interactions with</p>	<p><i>Modern diagnostics of immune-related diseases</i> Chairs: <i>Urszula Demkow, Warsaw, Poland</i> <i>Jarosław Baran, Cracow, Poland</i></p> <hr/> <p>15:00 – 15:20 Can NETs markers play a role in clinical diagnostics? - <i>Urszula Demkow, Warsaw, Poland</i></p> <p>15:20 – 15:40 Application of Capture Bead Assays in immunodiagnosics - <i>Kazimierz Węglarczyk, Cracow, Poland</i></p> <p>15:40 – 16:00 IgG4 diagnostic traps - <i>Aleksandra Matyja-Bednarczyk, Cracow, Poland</i></p> <p>16:00-16:30 Short communications and discussion:</p> <p>16:10 – 16:20 Soluble CD147 expression as a marker of risk for multiple myeloma - <i>Piotr Łacina¹</i>,</p>
15:00-16:30			

	<p>chains - Katarzyna Nazimek^{1,2}, Philip W. Askenase², Krzysztof Bryniarski^{1,2}, ¹ – Crakow, Poland, ² - New Haven, USA</p> <p>16:10 – 16:20 Genetic abnormalities within telomerase reverse transcriptase gene promoter region, telomerase activity and expression, and telomere length - comparison in oncological and haematological cell lines cultured in vitro - Marta Dratwa, Barbara Wysoczansk, Eliza Turlej, Artur Anisiewicz, Magdalena Maciejewska, Joanna Wietrzyk, Katarzyna Bogunia-Kubik, Wroclaw, Poland</p> <p>16:20 – 16:30 In search of markers of liver steatosis/fibrosis in children with Wilson's disease – the importance of L-FABP and LSDP5 - Joanna B. Bierła, Ewa Konopka, Wojciech Jańczyk, Aldona Wierzbicka-Rucińska, Sebastian Więckowski, Łukasz Obrycki, Jędrzej Sarnecki, Bożena Cukrowska, Piotr Socha, Warsaw, Poland</p>	<p>endothelial cells - understanding tumor metastasis – Aleksandra Bielawska-Pohl, Agnieszka Krawczenko, Elżbieta Wojdat, Aleksandra Klimczak, Wroclaw, Poland</p>	<p>Aleksandra Butrym¹, Diana Frontkiewicz², Grzegorz Mazur¹, Katarzyna Bogunia-Kubik¹, ¹ - Wroclaw, Poland, ² - Walbrzych, Poland</p>
<p>16:30-16:45</p>	<p>Break</p>		
<p>16:45-17:45</p>	<p>Plenary lecture: Tumor-derived exosomes and their role in cancer progression and response to immune therapy Theresa L. Whiteside, Pittsburgh, USA</p>		
<p>17:45-19:15</p>	<p><i>New aspects of innate immunity in cancer</i> Chairs:</p>	<p><i>Autoimmunity and Autoinflammation</i> Chairs: Karina Jahnz-Różyk, Warsaw, Poland</p>	<p><i>Immunology of infection</i> Chairs: Beata Tokarz-Deptuła, Szczecin, Poland</p>

	<p>Ewa Jabłońska, Białystok, Poland Magdalena Klink, Łódź, Poland</p>	<p>Beata Wolska-Kuśnierz, Warsaw, Poland</p>	<p>Andrzej K. Siwicki, Olsztyn, Poland</p>
	<p>17:45 – 18:10 Dual role of neutrophils in cancer - Ewa Jabłońska, Białystok, Poland</p> <p>18:10 – 18:35 Implication of tumor-associated macrophages in tumor progression and drug resistance - Magdalena Klink, Lodz, Poland</p> <p>18:35 – 19:15 Short communications and discussion:</p> <p>18:35-18:45 The effect of cancer cells on the formation of NETs - Marzena Garley, Dorota Dziemiańczyk-Pakieła, Wojciech Miltyk, Kamil Grubczak, Arkadiusz Surazyński, Wioletta Ratajczak-Wrona, Małgorzata Grudzińska, Kinga H. Nowacka, Marcin Moniuszko, Jerzy A. Pałka, Jan Borys, Ewa Jabłońska, Białystok, Poland</p>	<p>17:45 – 18:05 The molecular basis of autoimmune diseases - Natalia Wawrusiewicz-Kurylonek, Białystok, Poland</p> <p>18:05 – 18:25 Autoinflammatory diseases in adults - own experience in treatment with interleukin 1 inhibitor - Ewa Więsik-Szewczyk, Warsaw, Poland</p> <p>18:25 – 18:45 Treatment program for congenital autoinflammatory syndromes – two years of pediatric experience - Beata Wolska-Kuśnierz, Warsaw, Poland</p> <p>18:45 – 19:05 Pathogenesis of experimental autoimmune myocarditis - Przemysław Błyszczuk, Cracov, Poland</p> <p>19:05-19:15 Discussion</p>	<p>17:45 – 18:15 Immune privilege of CNS - consequences for autoimmunity - Joanna Zajkowska, Białystok, Poland</p> <p>18:15 – 19:15 Short communications and discussion:</p> <p>18:15 – 18:25 Changes in HSP70 protein expression in MM6 cell line phagocytosing latex beads upon low frequency pulsed electromagnetic field (LF-PEMF; 7 Hz, 30 mT) exposure - Jolanta Kaszuba-Zwoińska, Piotr Piszczek, Karolina Wójcik-Piotrowicz, Piotr Guzdek, Krzysztof Gil, Cracow, Poland</p> <p>18:25 – 18:35 Rhinovirus and coronavirus may infect the lung vascular endothelium - possible implications for immune responses in airway viral infections - Maciej Chałubiński, Mateusz Gawrysiak, Robert Szewczyk, Adrian Gajewski, Izabela Gulbas, Sylwia Michlewska, Aleksandra Likońska, Marek L. Kowalski, Lodz, Poland</p> <p>18:35 – 18:45 IL-33 as a modulator of the inflammatory and antiviral response of the lung vascular endothelium in rhinoviral infections - Adrian L. Gajewski, M. Gawrysiak, R. Szewczyk, M. L. Kowalski, M. Chalubinski, Lodz, Poland</p> <p>18:45 – 18:55 Ways of neutralizing viruses by platelets - Łukasz Baraniecki¹, Beata Tokarz-Deptuła¹, Michał Stosik², Wiesław Deptuła³, ¹ – Szczecin, Poland, ² – Zielona Gora, Poland, ³ – Torun, Poland</p>

DAY 2 Friday, May 28, 2020

<p>9:00-10:00</p>	<p align="center">Plenary lecture: Targeting an interface between innate and adaptive immunity in protecting from target organ damage in hypertension and atherosclerosis <i>Tomasz Guzik, Glasgow, UK</i></p>		
	<p align="center">Basic Immunology</p>	<p align="center">Clinical Immunology and Immunotherapy</p>	
		<p align="center">Part I</p>	<p align="center">Part II</p>
<p>10:00-11:30</p>	<p align="center"><i>Immunity, aging and aging-related diseases</i> Chair: Jacek M. Witkowski, Gdansk, Poland</p> <hr/> <p>10:00 – 10:30 Proteodynamics and aging – relevance for aging-related diseases and the mechanisms of the immune system aging - Jacek M. Witkowski, Gdansk, Poland</p> <p>10:30 – 11:30 Short communications and discussion:</p> <p>10:30 – 10:40 Assessment of regulatory T cells senescence in <i>in vitro</i> culture - Justyna Sakowska, Maciej Zieliński, Piotr Trzonkowski, Gdansk, Poland</p> <p>10:40 – 10:50 Extracellular vesicles secreted by senescent vascular smooth muscle cells influence T cell functioning -</p>	<p align="center"><i>Vaccinations in Immunocompromised</i> Chairs: Ewa Bernatowska, Warsaw, Poland Bożena Mikołuć, Białystok, Poland</p> <hr/> <p>10:00 – 10:25 BCG-Associated Complications in Primary Immunodeficiency Patients - Thirty-Nine Years of Experience in the Department of Immunology, Children’s Memorial Health Institute - Ewa Bernatowska, Warsaw, Poland</p> <p>10:25 – 10:50 Vaccinations in children during and after oncological treatment - recommendations of Polish Society of Pediatric Oncology and Hematology - Sylwia Kołtan, Bydgoszcz, Poland</p> <p>10:50-11:15 Effectiveness of vaccination in infants with autoimmune neutropenia - Bożena Mikołuć, Białystok, Poland</p> <p>11:15 – 11:30 Discussion</p>	<p align="center"><i>Immunology of reproduction</i> Chairs: Maciej Kurpisz, Poznan, Poland Jacek Malejczyk, Warsaw, Poland</p> <hr/> <p>10:00 – 10:20 Is immunogenetics involved in successful treatment of azoospermia?? - transcriptomic studies – Maciej Kurpisz, Poznan, Poland</p> <p>10:20 – 10:40 The tolerogenic function of regulatory lymphocytes in pregnancy - receptors and ligands - Anna Chelmońska-Soyta, Wroclaw, Poland</p> <p>10:40 – 11:00 Role of peritoneal fluid in the immunopathogenesis of endometriosis - Jacek Malejczyk, Warsaw, Poland</p> <p>11:00 – 11:20 Immunological infertility - Katarzyna Jankowska, Warsaw, Poland</p>

	<p><i>Grażyna Mosieniak , Agata Ciolko, Dominik Cysewski, Dorota Janiszewska, Paulina Podrzywałow-Bartnicka, Ewa Kozłowska, Ewa Sikora, Warsaw, Poland</i></p>		<p>11:20 – 11:30 Short communications and discussion:</p> <p>11:20 – 11:30 The role of ERAP, KIR and HLA-C profile in patients undergoing in vitro fertilization embryo transfer - <i>Karolina Piekarska¹, Paweł Radwan^{2,3}, Agnieszka Tarnowska¹, Rafał Krasieński², Michał Radwan^{2,4}, Andrzej Malinowski⁵, Jacek R. Wilczyński⁵, Andrzej Wiśniewski¹, Izabela Nowak¹, ¹ – Wrocław, Poland, ² – Rzgów, Poland, ³ – Podzamcze, Poland, ⁴ – Plock, Poland, ⁵ – Lodz, Poland</i></p>
Break			
11:30-11:45	<p style="text-align: center;"><i>Bacteriophages and Immunity</i> Chairs: <i>Andrzej Górski, Wrocław, Poland</i> <i>Krzyszyna Dąbrowska, Wrocław, Poland</i></p> <hr/> <p>11:45 – 12:15 Immune response to bacteriophages - <i>Krzyszyna Dąbrowska, Wrocław, Poland</i></p> <p>12:15 – 12:45 Bacteriophages and immunomodulation: potential clinical implications - <i>Andrzej Górski, Wrocław, Poland</i></p> <p>12:45 - 13:20 Discussion</p>	<p style="text-align: center;"><i>Allergology</i> Chairs: <i>Marek Kulus, Warsaw, Poland</i> <i>Marcin Moniuszko, Białystok, Poland</i></p> <hr/> <p>11:45 – 12:05 Current understanding of allergic march - <i>Marek Kulus, Warsaw, Poland</i></p> <p>12:05 – 12:25 - Immune mechanisms of asthma - <i>Piotr Kuna, Lodz, Poland</i></p> <p>12:25 – 12:45 Mutual relationships between immunity and coagulation in urticaria and angioedema - <i>Barbara Rogala, Katowice, Poland</i></p> <p>12:45 – 13:05 Hypersensitivity to nonsteroidal anti-inflammatory drugs (NSAIDs) - <i>Marek Kowalski, Lodz, Poland</i></p> <p>13:05-13:20 Which immunological tests are reliable in</p>	<p style="text-align: center;"><i>Adoptive cell therapy</i> Chairs: <i>Radosław Zagożdżon, Warsaw, Poland</i> <i>Krzysztof Mucha, Warsaw, Poland</i></p> <hr/> <p>11:45 – 12:10 Perspectives for cellular therapies in transplantology - <i>Krzysztof Mucha, Warsaw, Poland</i></p> <p>12:10 – 12:35 Adoptive cell therapies as anticancer strategies - <i>Radosław Zagożdżon, Warsaw, Poland</i></p> <p>12:35-13:00 Short communications and discussion:</p> <p>12:35-12:45 Teaching Tregs to respond to specific antigen - <i>Dorota Iwaszkiewicz-Grzes¹, Mateusz Gliwinski¹, Anne Eugster², Magdalena Piotrowska¹, Andreas Dahl², Natalia Marek-Trzonkowska¹, Piotr Trzonkowski¹, ¹ – Gdansk, Poland, ² – Dresden, Germany</i></p>

		diagnosis of food allergy? - <i>Zbigniew Bartuzi, Bydgoszcz, Poland</i>	
13:20-13:40	Sponsored lecture: TAKEDA - Common symptoms, rare cause – hereditary angioedema (HAE) - <i>Marcin Moniuszko, Poland</i>		
13:40-14.00	Sponsored lecture: TAKEDA - Primary or secondary immunodeficiency - <i>Sylvia Kołtan, Poland</i>		
14:00 - 15:00	Special Session: Polish Immunology: from past to the future Chairs: <i>Jan Żeromski, Poznań, Poland</i> <i>Jacek M. Witkowski, Gdańsk, Poland</i>		
	<p style="text-align: center;">14:00 – 14:20 The role of Polish scientists in the discovery of hepatitis B virus - <i>Kazimierz Madaliński, Warsaw, Poland</i></p> <p style="text-align: center;">14:20 – 14:40 Neutrophils yesterday and today: soldiers and saboteurs of the immune system - <i>Janusz Marcinkiewicz, Cracow, Poland</i></p> <p style="text-align: center;">14:40 – 15:00 The role of Poznan scientists in the organization of Polish immunology - <i>Jan Żeromski, Poznan, Poland</i></p>		
	Basic Immunology	Clinical Immunology and Immunotherapy	
		Part I	Part II
	Immune tolerance – from bench to bedside Chair: <i>Piotr Trzonkowski, Gdansk, Poland</i> <i>Eva M. Martinez-Caceres, Barcelona, Spain</i>	Allergen immunotherapy and biological treatment Chairs: <i>Karina Jahnz-Różyk, Warsaw, Poland</i> <i>Marek Jutel, Wroclaw, Poland</i>	Advances and challenges of immunogenetics towards personalized therapy Chairs: <i>Katarzyna Bogunia-Kubik, Wroclaw, Poland</i> <i>Lidia Karabon, Wroclaw, Poland</i>
	15:00 – 15:45 Treatment with	15:00 – 15:20 From personalized to precision medicine - advances in allergy treatment - <i>Marek</i>	15:00 – 15:20 NGS technology in HLA transplantation

<p>15:00 –17:00</p>	<p>tolerogenic dendritic cells in multiple sclerosis: from bench to bedside - <i>Eva M Martinez-Caceres, Barcelona, Spain</i></p> <p>15:45 – 16:15 T regulatory cells in the clinic: from bench to bedside - <i>Piotr Trzonkowski, Gdansk, Poland</i></p> <p>16:15 – 17:00 Short communications and discussion:</p> <p>16:15 – 16:25 The kinetics of cytokine secretion by cells obtained from mixed chimeric mice – <i>Magdalena Baškiewicz-Hałasa, M.Hałasa, K. Piecyk, D. Rogińska, Ch. Schmidt, B. Machaliński, Szczecin, Poland</i></p> <p>16:25 – 16:35 Investigation of a self-tolerogenic potential of suppressor T cell-derived extracellular vesicles - <i>Katarzyna Nazimek^{1,2,3}, Eugenio Bustos-Morán², Noelia Blas-Rus², Bernadeta Nowak¹, Philip W. Askenase³, Francisco Sánchez-Madrid², Krzysztof Bryniarski^{1,3}, ¹ – Cracow, Poland, ² – Madrid, Spain, ³ – New Haven, USA</i></p>	<p><i>Jutel, Wroclaw, Poland</i></p> <p>15:20 – 15:40 The epidemic of allergic diseases – can we stop it? - <i>Bolesław Samoliński, Warsaw, Poland</i></p> <p>15:40 – 16:00 Biologics and Biosimilars - <i>Karina Jahnz-Różyk, Warsaw, Poland</i></p> <hr/> <p>16:00 – 16:20 Current concepts and future directions in biological therapy for allergy and asthma - <i>Maciej Kupczyk, Lodz, Poland</i></p> <p>16:20 – 16:40 Structural similarities of allergens. Implications for allergen immunotherapy - <i>Krzysztof Kowal, Białystok, Poland</i></p> <p>16:40-17.00 AstraZeneca – Nadużywanie doustnych steroidów (dGKS) w astmie. Jak zmienić sytuację?</p>	<p>diagnostics - <i>Christien Voorter, Maastricht, Netherlands</i></p> <p>15:20 – 15:40 Haploidentical stem cell transplantation in children with non-malignant disease - <i>Jacek Toporski, Lund, Sweden</i></p> <p>15:40 – 16:00 20 years of Wrocław HLA External Proficiency Testing - <i>Katarzyna Bogunia-Kubik, Wroclaw, Poland</i></p> <p>16:00 – 16:20 Adoptive immunotherapy with Natural Killer cells - past, present and future trends - <i>Bartosz Grzywacz, Minneapolis, USA</i></p> <p>16:20 – 17:00 Short communications and discussion:</p> <p>16:20 – 16:35 Functional evolution of NK cells - <i>Jacek Nowak, Warsaw, Poland</i></p> <p>16:35 – 16:45 The epigenetic landscape in regulatory and conventional T cells upon antigen stimulation - <i>Magdalena Piotrowska, Dorota Iwaszkiewicz-Grzes, Mateusz Gliwinski, Piotr Trzonkowski, Gdansk, Poland</i></p>
<p>17:00 -17:15</p>	<p>Sponsored lecture: <i>GlaxoSmithKline</i> - Eosinophils in clinical practice – <i>Dr n. med. Rafał Dobek, Poland</i></p>		

17:15 - 18:15

Poster session 1

Chairs:

Joanna Domagała-Kulawik, Warsaw, Poland

Karina Jahnz-Różyk, Warsaw, Poland

Jacek Witkowski, Gdansk, Poland

Adoptive Cell Therapy

- ❖ **Increased release of microparticles in patients with selected blood proliferative diseases**

Mateusz Dziemiańczuk, Magdalena Bujno, Jarosław Piszcz, Anna Rogowska, Marzena Galar, Janusz Kłoczko, Piotr Radziwon

Advances and challenges of immunogenetics towards personalized therapy

- ❖ **Association of IL-13 polymorphism with response to TNF inhibitors in rheumatoid arthritis patients**

Sylwia Biały, Milena Iwaszko, Jerzy Świerkot, Katarzyna Kolossa, Sławomir Jeka, Katarzyna Bogunia-Kubik

- ❖ **TERT genetic variability and telomere length as factors affecting survival of acute myeloid leukaemia patients**

Marta Dratwa, Barbara Wysoczanska, Aleksandra Butrym, Grzegorz Mazur, Katarzyna Bogunia-Kubik

- ❖ **Genotyping of NKG2D and MICA variants in a paediatric cohort of patients after HSCT - preliminary results**

Jagoda Siemaszko, Milena Iwaszko, Blanka Rybka, Renata Ryczan-Krawczyk, Marek Ussowicz, Katarzyna Bogunia-Kubik

Allergen Immunotherapy and Biological Treatment

- ❖ **Casein-specific miRNA-150 extracellular vesicles inhibit inflammatory reaction in mouse model of delayed-type hypersensitivity to casein**

Magdalena Wąsik, Katarzyna Nazimek, Krzysztof Bryniarski

Allergology

- ❖ **Potential pro-inflammatory properties of *Tranzschelia pruni-spinosae* and *Phragmidium rubi-idaei***

Monika Sztandera-Tymoczek, Aleksandra Ziomek, Urszula Świdorska-Burek, Agnieszka Szuster-Ciesielska

Autoimmunity and Autoinflammation

- ❖ Proinsulin-specific T regulatory cells as possible adoptive therapy in type 1 diabetes

Mateusz Gliwiński, Dorota Iwaszkiewicz-Grześ, Anna Wołoszyn-Durkiewicz, Monika Tarnowska, Magdalena Żalińska, Matylda Hennig, Hanna Zielińska, Anna Dukat-Mazurek, Joanna Zielkowska-Dębska, Maciej Zieliński, Anna Jaźwińska-Curyłło, Radosław Owczuk, Przemysław Jarosz-Chobot, Artur Bossowski, Agnieszka Szadkowska, Wojciech Młynarski, Natalia Marek-Trzonkowska, Grażyna Moszkowska, Janusz Siebert, Małgorzata Myśliwiec, Piotr Trzonkowski

- ❖ Autologous extracellular Hsp70 exerts a dual role in rheumatoid arthritis

Stefan Tukaj, Jagoda Mantej, Michał Sobala, Katarzyna Potrykus, Krzysztof Sitko

- ❖ Therapeutic implications of targeting heat shock protein 70 by immunization or antibodies in experimental skin inflammation

Stefan Tukaj, Jagoda Mantej, Michał Sobala, Katarzyna Potrykus, Zbigniew Tukaj, Detlef Zillikens, Ralf J. Ludwig, Katja Bieber, Michael Kasperkiewicz

- ❖ Comparison of gene expression profile of regulatory T cells in children with Selective IgA deficiency with or without autoimmune diseases/presence of autoantibodies

Magdalena Rutkowska-Zapała, Agnieszka Grabowska, Anna Kluczevska, Anna Szafłarska, Marzena Lenart, Anna Pituch-Noworolska, Maciej Siedlar

Immunity and Stem Cells

- ❖ The stimulatory effect of bone morphogenetic protein 2 (BMP-2) and fibroblast growth factor 2 (FGF-2) on osteogenic differentiation of sheep bone marrow-derived mesenchymal stem cells (BM-MSCs) *in vitro*

Sandra Gromolak, Agnieszka Krawczenko, Agnieszka Antończyk, Krzysztof Buczak, Zdzisław Kiełbowski, Aleksandra Klimczak

- ❖ Transcriptomic profiling of mesenchymal stem cell (MSCs)-mediated effects on a healthy lung

Adrian Janucik, Marlena Tynecka, Magdalena Niemira, Arkadiusz Zbikowski, Aleksandra Starosz, Kamil Grubczak, Anna Szalkowska, Urszula Korotko, Małgorzata Lukasik, Joanna Reszec, Mirosław Kwasniewski, Adam Kretowski, Marcin Moniuszko, Andrzej Eljaszewicz

- ❖ Microvesicles derived from stem/progenitor cells as carriers of bioactive factors facilitating angiogenesis

Agnieszka Krawczenko, Aleksandra Bielawska-Pohl, Maria Paprocka, Honorata Kraskiewicz, Agnieszka Szyposzynska, Elżbieta Wojdat, Aleksandra Klimczak

Immunology in Personalized Medicine

- ❖ Different responses of malignant myeloid cells to BCL-2 inhibitors – implications for acute myeloid leukemia therapy

Anna Młyczyńska, Weronika Ortmann, Małgorzata Opydo-Chanek

Tumor Immunology and Immunotherapy

- ❖ **Alarmin HMGB1 affects the proinflammatory response of mast cells**
Justyna Agier, Ewa Brzezińska-Błaszczyk, Elżbieta Kozłowska, Paulina Żelechowska, Sylwia Różalska
- ❖ **Comparison of Tumor-derived Extracellular Vesicles (TEVs) isolation methods from culture supernatant for better yield, purity and unchanged biological properties**
Anna Alwani, Aneta Andreasik, Kazimierz Węglarczyk, Monika Baj-Krzyworzeka
- ❖ **Coriolus versicolor fungus-derived protein-bound polysaccharides as a potential inhibitor of invasion and migration of breast cancer cells**
K. Cybulska, D. Waga, M. Pawlikowska, S. Wrotek
- ❖ **ADMINISTRATION OF IL-12 AND IL-18 TRANSDUCED DCS CAN TRIGGER THE SYSTEMIC ANTI-TUMOR RESPONSE**
Jagoda Mierzejewska, Katarzyna Węgierek-Ciura, Agnieszka Szczygieł, Anna Wróblewska, Bożena Szermer-Olerarnik, Joanna Rossowska, Elżbieta Pajtasz-Piasecka
- ❖ **The role of APRIL in the proliferation and survival of squamous cell carcinoma cells**
Kinga Henryka Nowacka, Marzena Garley, Agnieszka Iwaniuk, Ewa Jabłońska
- ❖ **Extracellular vesicles from colorectal cancer patients act as an inducer of myeloid-derived suppressor cells**
Izabela Siemińska, Kazimierz Węglarczyk, Mateusz Rubinkiewicz, Antoni Szczepanik, Maciej Siedlar, Jarek Baran
- ❖ **PERSPECTIVES FOR THE APPLICATION OF DCS GENETICALLY MODIFIED FOR OVERPRODUCTION OF IL-12, IL-15, AND IL-18 IN ANTI-CANCER THERAPY - IN VITRO STUDIES**
Katarzyna Węgierek-Ciura, Jagoda Mierzejewska, Agnieszka Szczygieł, Anna Wróblewska, Bożena Szermer-Olerarnik, Joanna Rossowska, Elżbieta Pajtasz-Piasecka
- ❖ **Genetics of non-small cell lung cancer: impact of antigen-processing machinery polymorphisms on disease risk and clinical parameters in smokers and never-smokers**
Andrzej Wiśniewski, Maciej Sobczyński, Konrad Pawełczyk, Irena Porębska, Monika Jasek, Marta Wagner, Wanda Niepiekło-Miniewska, Aneta Kowal, Joanna Dubis, Natalia Jędruchniewicz, Piotr Kuśnierczyk

Poster session 2

Chairs:

Ewa Jabłońska, Białystok, Poland

Janusz Marcinkiewicz, Cracov, Poland

Piotr Siwicki, Olsztyn, Poland

18:15-19:15

Immunomodulation and Immunotoxicology

- ❖ Regulation of NLRP3 inflammasome expression by diosgenin in human neutrophils
Agnieszka Iwaniuk, Wioletta Ratajczak-Wrona, Marzena Garley, Ewa Jabłońska
- ❖ The impact of endurance effort on T helper cell subsets distribution in peripheral blood of young men
Dorota Kostrzewa-Nowak, Robert Nowak
- ❖ Analgesic adjuvants facilitate morphine anti-inflammatory activity in mice
Michael Kozłowski, Katarzyna Nazimek, Iwona Filipczak-Bryniarska, Krzysztof Bryniarski
- ❖ Is fever important for ME-induced immune response? *In vitro* studies
Henryk Kozłowski, Sylwia Wrotek
- ❖ The usefulness of interleukin 6 in assessing the biocompatibility of polymer composites for dental prosthetics
Agnieszka Żydek, Anna Maliszewska, Anna Mertas
- ❖ Does the maximal progressive effort carried out according to various protocols trigger immunomodulatory processes according to the same molecular pattern?
Robert Nowak, Dorota Kostrzewa-Nowak
- ❖ Extract from *Coriolus versicolor* fungus induces IL-6 and TNF- α production by RAW 264.7 macrophages via phosphatidylinositol 3-kinase signalling pathway
Dagmara Waga, Kinga Cybulska, Tomasz Jędrzejewski, Sylwia Wrotek

Immunopathology

- ❖ Cytokine expression in patients with obstructive sleep apnea - correlation with susceptibility and clinical parameters of the disease
Monika Chaszczewska-Markowska, Katarzyna Gębura, Monika Kosacka, Anna Brzecka, Katarzyna Bogunia-Kubik
- ❖ Do selected SNPs modify the transcriptional activity of the UCP1 gene?
Witkowicz, A.E. Pravednikova, M. Kotowska., A. Bielawska-Pohl, M. Jasek, T. Issad, Y.V. Shidlovskii, L. Karabon

Innate Immunity in Protection of Barrier sites and Internal Organs

- ❖ Evaluation of effector functions of RAW 264.7 macrophages in the presence of extracellular vesicles and lipopolysaccharide – a comparative study
Anna Biała, Weronika Ortmann, Elżbieta Kołaczowska
- ❖ Effects of itaconic acid on inflammatory responses of murine macrophages and neutrophils and formation of neutrophil extracellular traps (NETs)
Gabriela Burczyk, Iwona Cichoń, Elżbieta Kołaczowska
- ❖ Metabolic requirements for neutrophil extracellular trap (NET) formation in obesity during systemic inflammation
Iwona Cichon, Weronika Ortmann, Elżbieta Kołaczowska
- ❖ Formation of macrophage extracellular traps (METs) by bone marrow-derived macrophages (BMDMs) is reactive nitrogen species (RNS)-dependent

Dominika Drab, Michal Santocki, Elzbieta Kolaczowska

- ❖ **Filaggrin-insufficient keratinocytes produce exosomes characterized by reduced capacity to promote CD1a-dependent responses**
Kobiela, W. Hewelt-Belka, A. Lewandowska, J. Frackowiak, L. Hovhannisyan, A. Biernacka, M. Michalska, E. Czechowska, X. Wang, E. Giannoulatou, J. Hester, G. S. Ogg, D. Gutowska-Owsiak
- ❖ **Lazy neutrophils – how deficiency of DGAT1 disturbs activity of mouse neutrophils**
Patrycja Kwiecińska, Kamila Kwiecień, Alicja Uchańska
- ❖ **Microparticle (MP)–neutrophil extracellular trap (NET) crosstalk during systemic inflammation in mice**
Weronika Ortmann, Iwona Cichon, Michal Santocki, Monika Baj-Krzyworzeka, Elzbieta Kolaczowska

Immunology of COVID-19

- ❖ **Comparative analysis of three commercially available assays for quantitative measurement of anti-SARS-CoV-2 IgG in convalescent plasma**
Agnieszka Żebrowska, Tomasz Wasiluk, Mateusz Dziemiańczuk, Marzena Smoktunowicz, Magdalena Bujno, Dariusz Średziński, Piotr Radziwon

Veterinary immunology and Comparative Immunology

- ❖ **Acute phase proteins in rabbits in acute viral infection, on the example of GI.1a-RHDVa virus (rabbit haemorrhagic disease virus)**
Łukasz Baraniecki, Beata Tokarz-Deptuła, Andrzej Pępiak, Wiesław Deptuła
- ❖ **Initial investigation on NP-5 (corticostatin-6) defensin expression in liver of healthy and *Lagovirus europaeus* infected rabbits**
R. Hrynkiewicz, D. Bębnowska, P. Niedźwiedzka-Rystwej
- ❖ **Comparison of the antimicrobial activities and the survival rates of the greater wax moth *Galleria mellonella* infected with *Pseudomonas entomophila* via oral and intrahemocoelic routes**
Jakub Kordaczuk, Michał Sułek, Iwona Wojda
- ❖ **REGULATORY ROLE OF IFN- λ IN CANINE MAMMARY CANCER CELLS SURVIVAL AND THEIR ABILITY TO MIGRATE *IN VITRO***
Rafał Pingwara, Iwona M. Szopa, Daria Kosmala, Natalia Woźniak, Kinga Majchrzak-Kuligowska, Arkadiusz Orzechowski, Joanna Mucha
- ❖ **Immune response of the greater wax moth *Galleria mellonella* (Lepidoptera) after injection with *Pseudomonas entomophila***
Michał Sułek, Jakub Kordaczuk, Iwona Wojda
- ❖ **PROGRAMMING OF CD4+ T LYMPHOCYTES TOWARD TH17 PHENOTYPE – *IN VITRO* STUDY ON COMPANION DOG MODEL**
I.M. Szopa, R. Pingwara, M. Granica, K. Majchrzak-Kuligowska

DAY 3 Saturday, May 29, 2020

9:00-10:00

Plenary lecture:
Progress in the production of therapeutic haematopoietic cells from pluripotent stem cells
Lesley Forrester (Edinburgh, UK)

Basic Immunology

Clinical Immunology and Immunotherapy

Part I

Part II

Immunity and stem cells

Chairs:

Mariusz Ratajczak, Warsaw, Poland
Marcin Moniuszko, Bialystok, Poland

Immunopathology

Chairs:

Zdzisława Kondera-Anasz, Poznan, Poland
Jan Sikora, Poznan, Poland

Unobvious use of immunoglobulins

Chairs:

Anna Pituch-Noworolska, Cracow, Poland
Małgorzata Pac, Warsaw, Poland

10:00-11:30

10:00 – 10:20 Characteristics of mesenchymal stem cells obtained from adipose tissue in patients with rheumatic diseases - *Ewa Kuca-Warnawin, Warsaw, Poland*

10:20 – 10:40 Crosslinks between innate immunity and mobilization of hematopoietic stem cells - *Mariusz Ratajczak, Warsaw, Poland*

10:40 – 11:00 Immunosuppressive properties of mesenchymal stem cells – perspectives of therapeutic administration - *Marcin Moniuszko, Bialystok, Poland*

10:00 – 10:20 A three-tier approach to diagnosing autoimmune blistering diseases based on analyzing clinical data and results of imaging and biochemical-molecular examinations - *Marian Dmochowski, Poznan, Poland*

10:20 – 10:40 The role of pattern recognition molecules in pathology of liver - *Jan Żeromski, Poznan, Poland*

10:40-11:00 Cytokines and chemokines in chronic venous insufficiency - *Ewa Grudzińska, Zenon Czuba, Zabrze, Poland*

11:00-11:20 Influence of biologically active SP-A protein on lung cancer cell lines - *Małgorzata Łagiedo-Żelazowska, Mariusz Kaczmarek, Jan Sikora, Poznan,*

10:00 – 10:25 Are immunoglobulins therapy for all diseases – evolution of clinical use - *Anna Pituch-Noworolska, Cracow, Poland*
Małgorzata Pac, Warsaw, Poland

10:25 – 10:50 Immunoglobulins in therapy of immuno-deficiency co-morbidities - *Aleksandra Matyja-Bednarczyk, Cracow, Poland*

10:50 – 11:15 Substitution of immunoglobulins in incompleting B cell reconstitution after HSCT due to SCID - *Anna Szaflarska, Cracow, Poland*

11:15–11:30 Discussion

	<p>11:00 – 11:20 Can mesenchymal stem cells affect wound healing and organ remodeling? - <i>Andrzej Eljaszewicz, Bialystok, Poland</i></p> <p>11:20–11:30 Short communication and discussion:</p> <p>11:20–11:30 Transcriptomic profiling of MSC-mediated changes in the eosinophilic and neutrophilic lung inflammation revealed different putative mechanisms of immunosuppression - <i>Marlena Tynecka, Adrian Janucik, Magdalena Niemira, Aleksandra Starosz, Arkadiusz Zbikowski, Kamil Grubczak, Dawid Groth, Anna Szalkowska, Urszula Korotko, Malgorzata Lukasik, Joanna Reszec, Mirosław Kwasniewski, Adam Kretowski, Marcin Moniuszko, Andrzej Eljaszewicz, Bialystok, Poland</i></p>	<p><i>Poland</i></p> <p>11:20-11:30 Short communication and discussion:</p> <p>11:20–11:30 Aberrant BTLA expression in CLL: epigenetic regulation and impact on CLL cells proliferation and ability to IL-4 production - <i>Lidia Karabon¹, Anna Andrzejczak¹, Lidia Ciszak¹, Anna Tomkiewicz¹, Aleksandra Szteblich¹, Agnieszka-Bojarska-Junak², Jacek Roliński², Dariusz Wolowiec¹, Tomasz Wróbel¹, Agata Kosmaczewska¹, ¹ – Wrocław, Poland, ² – Lublin, Poland</i></p>	
<p>11:30-11:45</p>	<p>Sponsored lecture: STEMCELL Technologies - Tools for Immunology Research- <i>Graeme Milton, France</i></p>		
<p>11.45-12.00</p>	<p>Sponsored lecture: PBKM S.A. Grupa FamiCord - Technological and regulatory aspects of clinical use of cellular therapy products in Poland – <i>Tomasz Ołdak, Poland</i></p>		
<p>12:00-14.00</p>	<p>Veterinary immunology and comparative immunology Chairs: <i>Andrzej Siwicki, Olsztyn Poland</i> <i>Paulina Niedzwiedzka-Rystwej, Szczecin, Poland</i></p>	<p>Immunodermatology Chairs: <i>Jacek Szepietowski, Wrocław, Poland</i> <i>Jolanta Jura, Cracow, Poland</i></p> <hr/> <p>12:00 – 12:20 Degradation of transcripts in skin</p>	<p>Immunology of COVID-19 Chairs: <i>Joanna Zajkowska, Bialystok, Poland</i> <i>Janusz Marcinkiewicz, Cracow, Poland</i></p> <hr/> <p>12.00 – 12.25 SARS-CoV-2 receptors in health and disease - <i>Milena Sokolowska, Davos, Switzerland</i></p>

	<p>12:00 – 12:10 Insights on immune cells – why are we still enchanted? - Paulina Niedźwiedzka-Rystwej, Szczecin, Poland</p> <p>12:10 – 12:30 Autophagy – how cell recycling favours homeostasis - Małgorzata Gajewska, Warsaw, Poland</p> <p>12:30 – 12:50 Possibilities of cancer immunotherapy in veterinary medicine - Kinga Majchrzak-Kuligowska, Warsaw, Poland</p> <p>12:50 – 13:10 Properties of antimicrobial peptides and their potential applications in veterinary medicine - Joanna Wessely-Szponder, Lublin, Poland</p> <p>13:10–14:00 Discussion</p>	<p>homeostasis - Jolanta Jura, Cracow, Poland</p> <p>12:20 – 12:40 Contemporary view on the pathogenesis of psoriasis in the context of modern therapy - Adam Reich, Rzeszow, Poland</p> <p>12:40 – 13:00 What is new in the pathogenesis of itch? - Jacek Szepietowski, Wroclaw, Poland</p> <p>13:00 – 13:20 The role of ANCA antibodies in the diagnosis of small vessel vasculitis - Agnieszka Owczarczyk-Saczonek, Olsztyn, Poland</p> <p>13:20 – 13:40 Immunological aspects of hidradenitis suppurativa - Łukasz Matusiak, Wroclaw, Poland</p> <p>13:40 – 14:00 Why do we use therapy with ultraviolet radiation in dermatology? - Joanna Narbut, Lodz, Poland</p>	<p>12:25 – 12:45 Covid 19 – virus contra the immune system - Janusz Marcinkiewicz, Cracow, Poland</p> <p>12:40 – 13:05 The fate of Covid19 patients is hanging in the balance between inflammatory and immunologic response to SARS CV2 - Andrzej Lange, Wroclaw, Poland</p> <p>13:05 – 13:30 Vaccination against COVID-19, what are we expecting? - Joanna Zajkowska, Bialystok, Poland</p> <p>13:30 – 14:00 Short communications and discussion:</p> <p>13:30 – 13:40 Persistence of skewed T regulatory cells in patients recovering from severe COVID-19 Milena Wiech¹, Piotr Chroscicki¹, Marta Brewinska-Olchowik¹, Julian Swatler¹, Michal Hampel¹, Anna Maliszewska¹, Katarzyna Sklinda¹, Sara de Biasi², Marek Durlik¹, Waldemar Wierzba^{1,3}, Andrea Cossarizza², Katarzyna Piwocka¹, ¹ – Warsaw, Poland, ² – Modena, Italy, ³ – Lodz, Poland</p> <p>13:40 – 13:50 Significance of NETs formation in COVID-19 - Karolina Janiuk, Ewa Jabłońska, Marzena Garley, Bialystok, Poland</p>
14:00–14.30	Closing remarks		