

17. Congress of the Polish Society of Experimental and Clinical Immunology, 28-30 May 2020, Białystok

DAY 1 Thursday, May 28, 2020

| | | | |
|-------------|---|---|--|
| 9.15-10.00 | <p style="text-align: center;">Opening lecture: Targetting an interface between innate and adaptive immunity in protecting from target organ damage in hypertension and atherosclerosis <i>Tomasz Guzik, Glasgow, UK</i></p> | | |
| | Basic Immunology | Clinical Immunology and Immunotherapy | |
| | Hall A | Hall B | Hall C |
| 10.00-11.30 | <p><i>Innate immunity in protection of barrier sites and internal organs</i></p> <p>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> <hr/> | <p><i>The expanding field of secondary immune deficiencies in adults: causes, diagnosis, and management</i></p> <p>Chairs: <i>Jacek Rolinski, 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> <hr/> <p>10.30 – 11.00 Significance of preventive vaccinations in patients with secondary immunodeficiency disorders <i>Marcin Pasiarski, Kielce, Poland</i></p> <hr/> | <p><i>Immunology in personalized medicine</i></p> <p>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, Gdansk, Poland</i></p> <hr/> <p>10.30 – 11.00 Personalized medicine in atopic dermatitis- where are we? <i>Magdalena Trzeciak, Gdansk, Poland</i></p> <hr/> <p>11.00 – 11.30 Short communications and discussion</p> |

| | | | |
|--------------------|--|---|--|
| | <p>10.15 – 10.40 Interplay between neutrophils, their NETs, and platelets in the liver: consequences for the outcome of sepsis <i>Elżbieta Kołaczkowska, Cracow, Poland</i></p> <hr/> <p>10.40 – 11.05 Neutrophils in pathogenesis of skin disease-psoriasis <i>Joanna Cichy, Cracow, Poland</i></p> <hr/> <p>11.05 – 11.20 Innate immunity in cystic fibrosis lung diseases. Dual role of neutrophils <i>Marta Ciszek – Lenda, Janusz Marcinkiewicz, Cracow, Poland</i></p> <hr/> <p>11.20 – 11.30 Short communication</p> | <p>11.00 – 11.30 Short communications and discussion</p> | |
| 11.30-12.00 | Coffee break | | |
| 12.00-13.30 | <p><i>Immunomodulation and Immunotoxicology</i></p> <p>Chairs: <i>Andrzej Siwicki, Olsztyn, Poland</i> <i>Ewa Jabłońska, Białystok, Poland</i></p> | <p><i>Progress in diagnostics and treatment of primary immunodeficiencies</i></p> <p>Chairs: <i>Ewa Bernatowska, Warsaw, Poland</i></p> | <p><i>Advances and challenges of immunogenetics towards personalized therapy</i></p> <p>Chairs: <i>Katarzyna Bogunia-Kubik, Wrocław, Poland</i> <i>Lidia Karabon, Wrocław, Poland</i></p> |

| | | | |
|---------------------------|--|---|--|
| | <p>12.00-12.15 Immunomodulatory effect of xenobiotics <i>Wioletta Ratajczak-Wrona, Karolina Nowak, Ewa Jabłońska, Białystok Poland</i></p> <hr/> <p>12.15.-12.30 The influence of selected bioelements on immune system function <i>Sylwia Terpiłowska, Andrzej K. Siwicki, Lublin, Olsztyn, Poland</i></p> <hr/> <p>12.30-12.45 Parabens -endocrine disruptaining chemicals (EDCs) action on immune cells <i>Karolina Nowak, Ewa Jablonska, Wioletta Ratajczak-Wrona, Białystok, Poland</i></p> <hr/> <p>12.45-13.15 Role of circulating monocytes in response to air pollution <i>Jarosław Baran, Cracow, Poland</i></p> <hr/> <p>13.15-13.30 Short communications and discussion</p> | <p><i>Małgorzata Pac, Warsaw, Poland</i></p> <hr/> <p>12.00 – 12.20 Newborn screening for early diagnosis and treatment of severe combined immunodeficiency (SCID) <i>Małgorzata Pac, Warsaw, Poland</i></p> <hr/> <p>12.20 – 12.40 Genotype-phenotype correlations in primary immunodeficiencies <i>Beata Wolska-Kusnierz, Warsaw, Poland</i></p> <hr/> <p>12.40 – 13.00 Advances in flow cytometry in Nijmegen Breakage Syndrome (NBS) <i>Barbara Piątoś, Warsaw, Poland</i></p> <hr/> <p>13.00 – 13.20 Skin changes in NBS patients <i>Edyta Heropolitańska – Pliszka, Warsaw, Poland</i></p> <hr/> <p>13.20 – 13.30 Short communication and discussion</p> | <hr/> <p>12.00 – 12.20 NGS technology in HLA transplantation diagnostics <i>Christien Voorter, Maastricht, Netherlands</i></p> <hr/> <p>12.20 – 12.40 Adoptive immunotherapy with Natural Killer cells - past, present and future trends <i>Bartosz Grzywacz, Minneapolis, USA</i></p> <hr/> <p>12.40 – 13.00 Haplodentical stem cell transplantation in children with non-malignant disease <i>Jacek Toporski, Lund, Sweden</i></p> <hr/> <p>13.00 – 13.10 20 years of Wrocław HLA External Proficiency Testing <i>Katarzyna Bogunia-Kubik, Wrocław, Poland</i></p> <hr/> <p>13.10 – 13.30 Short communications and discussion</p> |
| <p>13.30-14.30</p> | <p>Lunch and poster session</p> | | |

| | | | |
|---------------------------|---|--|---|
| <p>14.30-16.00</p> | <p><i>Current advancements in basic immunology</i></p> <p>Chair: <i>Krzysztof Bryniarski, Cracow, Poland</i></p> | <p><i>Tumor immunology and immunotherapy</i></p> <p>Chairs: <i>Andrzej Mackiewicz, Poznan, Poland</i> <i>Joanna Domagała-Kulawik, Warsaw, Poland</i> <i>Witold Lasek, Warsaw, Poland</i></p> | <p><i>Modern diagnostics of immune-related diseases</i></p> <p>Chairs: <i>Urszula Demkow, Warsaw, Poland</i> <i>Jarosław Baran, Cracow, Poland</i></p> |
| | <p>14.30 – 14.55 Immune aspects of the functions of non-coding microRNA and extracellular vesicles. <i>Krzysztof Bryniarski, Cracow, Poland</i></p> | <p>14.30 – 14.50 Evolving role of the immune system in the process of cancer development <i>Witold Lasek, Warsaw, Poland</i></p> | <p>14.30 – 14.50 Can NETS markers play a role in clinical diagnostics? <i>Urszula Demkow, Warsaw, Poland</i></p> |
| | <p>14.55 – 15.20 Alveolar lymphocytes- facts and myths <i>Piotr Kopiński,</i></p> | <p>14.50 – 15.10 Molecular mechanisms of cancer vaccination <i>Andrzej Mackiewicz, Poznan, Poland</i></p> | <p>14.50-15.10 Application of Capture Bead Assays in immunodiagnostics <i>Kazimierz Węglarczyk, Cracow, Poland</i></p> |
| | <p>15.20 – 16.00 Short communications and discussion</p> | <p>15.10 – 15.30 PD-1/PD-L1,2 pathway as target for lung cancer therapy <i>Joanna Domagała –Kulawik, Warsaw, Poland</i></p> | <p>15.10-15-30 IgG4 diagnostic traps <i>Aleksandra Matyja-Bednarczyk, Cracow, Poland</i></p> |
| | | <p>15.30-16.00 Short communications and discussion</p> | <p>15.30 – 15.45 Multicolor flow cytometry - interest of scientific laboratories only, or also inevitability in routine clinical diagnostics? <i>Karolina Bukowska-Strakova, Cracow, Poland</i></p> <p>15.45- 16.00 From single cell to tissue section, comprehensive protein-biomarker identification with high-parameter mass cytometry</p> |

| | | | |
|--------------------|--|---|---|
| | | | <i>Roberto Spada, PhD, Business Development Manager Mass Cytometry Franchise, EMEA</i> |
| 16.00-16.30 | Coffee break | | |
| 16.30-18.00 | <p><i>New aspects of innate immunity in cancer</i></p> <p>Chairs: <i>Ewa Jablonska, Bialystok, Poland</i> <i>Magdalena Klink, Lodz, Poland</i></p> | <p><i>Autoimmunity and Autoinflammation</i></p> <p>Chairs: <i>Karina Jahnz-Rozyk, Warsaw, Poland</i> <i>Beata Wolska-Kusnierz, Warsaw, Poland</i></p> | <p><i>Immunology of infection</i></p> <p>Chairs: <i>Beata Tokarz - Deptula, Szczecin, Poland</i> <i>Andrzej Siwicki, Olsztyn, Poland</i></p> |
| | <p>16.30 – 16.55 Dual role of neutrophils in cancer <i>Ewa Jablonska, Bialystok, Poland</i></p> | <p>16.30 – 16.50 The molecular basis of autoimmune diseases <i>Natalia Wawrusiewicz-Kurylonek, Bialystok, Poland</i></p> | <p>16.30 – 17.00 The immune system monitoring for viral reactivation prevention and treatment <i>Andrzej Lange, London, UK</i></p> |
| | <p>16.55 – 17.20 Implication of tumor-associated macrophages in tumor progression and drug resistance <i>Magdalena Klink, Lodz, Poland</i></p> | <p>16.50 – 17.10 Autoinflammatory diseases in adults - own experience in treatment with interleukin 1 inhibitor <i>Ewa Więsik-Szewczyk, Warsaw, Poland</i></p> | <p>17.00 – 17.30 Immune privilege of CNS- consequences for autoimmunity <i>Joanna Zajkowska, Bialystok, Poland</i></p> |
| | <p>17.20 – 17.40 The effect of cancer cells on the formation of NETs <i>Marzena Garley, Bialystok, Poland</i></p> | <p>17.10 – 17.30 Treatment program for congenital autoinflammatory syndromes – two years of pediatric experience <i>Beata Wolska-Kusnierz, Warsaw, Poland</i></p> | <p>17.30 – 18.00 Short communications and discussion</p> |
| | <p>17.40 – 18.00 Short communications and discussion</p> | <p>17.30 – 17.50 Pathogenesis of experimental autoimmune myocarditis <i>Przemyslaw Blyszczuk</i></p> <p>17.50-18.00</p> | |

Short communications and discussion

Polish Immunology: from past to the future

Chairs: *Jan Żeromski, Poznan, Poland*
Jacek Witkowski, Gdansk, Poland

18.00 – 18.20

The role of Polish scientists in the discovery of hepatitis B virus

Kazimierz Madaliński, Warsaw, Poland

18.00-19.20

18.20 – 18.40

Neutrophils yesterday and today: soldiers and saboteurs of the immune system

Janusz Marcinkiewicz, Cracow, Poland

18.40 – 19.00

The role of Poznan scientists in the organisation of Polish immunology

Jan Żeromski, Poznan, Poland

19.00 – 19.20

Polish immunogerontology yesterday, today and tomorrow

Jacek Witkowski, Gdansk, Poland

Opening ceremony

Invited lecture

CAR- T cell approaches to AML treatment

Yupo Ma, NY, USA

19.30-22.30

DAY 2 Friday, May 29, 2020

8.15-9.00

Plenary lecture: The role of the innate immune system in the progression of the Alzheimer's disease

Tamas Fulop, Sherbrooke, Canada

Basic Immunology

Clinical Immunology and Immunotherapy

Immunity, aging and aging-related diseases

Chairs:
Jacek Witkowski, Gdansk, Poland
Tamas Fulop, Sherbrooke, Canada

9.00 – 9.30
Immunoadaptation as the main characteristic of the aging immune system
Tamas Fulop, Sherbrooke, Canada

9.30 – 10.00
Proteomics and aging – relevance for aging-related diseases and the mechanisms of the immune system aging.

Vaccinations in Immunocompromised

Chairs:
Ewa Bernatowska, Warsaw, Poland
Bożena Mikołuc, Bialystok, Poland

9.00 – 9.25
Vaccination in Primary Immunodeficiency, Clinical Working Party Guideline, ESID 2019
Filomeen Haerynck, Gent, Belgium

9.25 – 9.50
BCG Moreau Vaccine Safety Profile and NK Cells
- Double Protection against disseminated BCG infection

Immunology of reproduction

Chairs:
Nelson Fernandez, Essex, UK
Maciej Kurpisz, Poznan, Poland
Jacek Malejczyk, Warsaw, Poland

9.00 – 9.25
The tolerogenic function of regulatory lymphocytes in pregnancy - receptors and ligands
Anna Chelmonska-Soyta, Wroclaw, Poland

9.25 – 9.40
Immunological infertility
Katarzyna Jankowska, Warsaw, Poland

9.50 – 10.30
Short communications and discussion

9.00-10.30

| | | | |
|---------------------------|--|--|---|
| | <p><i>Jacek M. Witkowski, Gdansk, Poland</i></p> <hr/> <p>10.00 – 10.30 Short communications and discussion</p> | <p>in Retrospective Study of BCG Vaccination in 52 Polish Children with Severe Combined Immunodeficiency <i>Ewa Bernatowska, Warsaw, Poland</i></p> <hr/> <p>9.50 – 10.10 Vaccinations in children during and after oncological treatment - recommendations of Polish Society of Pediatric Oncology and Hematology <i>Sylwia Kołtan, Bydgoszcz, Poland</i></p> <hr/> <p>10.10-10.30 Effectiveness of vaccination in infants with autoimmune neutropenia <i>Bożena Mikoluc, Bialystok, Poland</i></p> | |
| <p>10.30-11.00</p> | <p>Coffee break</p> | | |
| <p>11.00-12.30</p> | <p><i>Bacteriophages and Immunity</i></p> <p>Chairs: <i>Andrzej Górski, Wrocław, Poland</i> <i>Krystyna Dąbrowska, Wrocław, Poland</i></p> <hr/> <p>11.00 – 11.30 Immune response to bacteriophages <i>Krystyna Dąbrowska, Wrocław, Poland</i></p> <hr/> <p>11.30 – 12.00 Bacteriophages and</p> | <p><i>Allergology</i></p> <p>Chairs: <i>Marcin Moniuszko, Białystok, Poland</i> <i>Marek Kulus, Warsaw, Poland</i></p> <hr/> <p>11.00 – 11.20 Current understanding of allergic march <i>Marek Kulus, Warsaw, Poland</i></p> <hr/> <p>11.20-11.40 Immune mechanisms of asthma <i>Piotr Kuna, Łódź, Poland</i></p> <hr/> <p>11.40 – 12.00 Mutual relationships between immunity and coagulation in urticaria</p> | <p><i>Adoptive cell therapy</i></p> <p>Chairs: <i>Radosław Zagożdżon, Warsaw, Poland</i> <i>Krzysztof Mucha, Warsaw, Poland</i></p> <hr/> <p>11.00 – 11.30 Mesenchymal stem cells in therapeutic applications - not too much optimism? <i>Zygmunt Pojda, Warsaw, Poland</i></p> <hr/> <p>11.30 – 12.00 Perspectives for cellular therapies in transplantology <i>Krzysztof Mucha, Warsaw, Poland</i></p> <hr/> <p>12.00 – 12.30</p> |

| | | | |
|--------------------|---|---|---|
| | immunomodulation: potential clinical implications <i>Andrzej Górski, Wrocław, Poland</i> <hr/> 12.00-12.30 Short communications and discussion | and angioedema <i>Barbara Rogala, Katowice, Poland</i> <hr/> 12.00-12.20 Which immunological tests are reliable in diagnosis of food allergy? <i>Natalia Ukleja-Sokołowska, Bydgoszcz, Poland</i> <hr/> 12.20.12.30 Discussion | Adoptive cell therapies as anticancer strategies <i>Radosław Zagożdżon, Warsaw, Poland</i> <hr/> |
| 12.30-12.50 | STEMCELL Technologies: "Tools for Immunology Research" Graeme Milton | | |
| 12.50-13.10 | TAKEDA: "Improving patient tolerability in immunoglobulin treatment: stabilizers effect" Joris Höfinghoff, Barbara McCoy | | |
| 13.30-14.30 | Lunch and poster session | | |
| | Basic Immunology | Clinical Immunology and Immunotherapy | |
| | <i>Immune tolerance – from bench to bedside</i> Chair: <i>Piotr Trzonkowski, Gdansk, Poland</i> <hr/> 14.30 – 15.00 | <i>Allergen immunotherapy and biological treatment</i> Chair: <i>Karina Jahnz-Różyk, Warsaw, Poland</i> <i>Krzysztof Kowal, Białystok, Poland</i> <hr/> | <i>Rheumatology</i> Chairs: <i>Ewa Bryl, Gdansk, Poland</i> <i>Maciej Siedlar, Cracow, Poland</i> <hr/> 14.30 – 14.55 |

| | | | |
|-------------|--|---|--|
| 14.30-16.00 | <p>Treatment with tolerogenic dendritic cells in multiple sclerosis: from bench to bedside <i>Eva M Martinez-Caceres, Barcelona, Spain</i></p> | <p>14.30 – 14.50 The epidemic of allergic diseases – can we stop it? Bolesław Samoliński, Warsaw, Poland</p> | <p>Rheumatoid arthritis as a systemic autoimmune disease - the current concept <i>Ewa Bryl, Gdansk, Poland</i></p> |
| | <p>15.00 – 15.30 T regulatory cells in the clinic: from bench to bedside <i>Piotr Trzonkowski, Gdansk, Poland</i></p> | <p>14.50-15.10 Structural similarities of allergens. Implications for allergen immunotherapy <i>Krzysztof Kowal, Bialystok, Poland</i></p> | <p>14.55 – 15.20 Involvement of innate and adaptive arms of immune system in the pathogenesis of spondyloarthritis <i>Maciej Siedlar, Cracow, Poland</i> <i>Mariusz Korkosz, Cracow, Poland</i></p> |
| | <p>15.30 – 16.00 Short communications and discussion</p> | <p>15.10 – 15.30 Biologics and Biosimilars <i>Karina Jahnz-Różyk, Warsaw, Poland</i></p> | <p>15.20 – 15.45 Epigenetic mechanisms in autoimmune response- tu czy Autoimmunity? <i>Marzena Ciechomska, Warsaw, Poland</i></p> |
| | | <p>15.30 – 15.50 Current concepts and future directions in biological therapy for allergy and asthma <i>Marcin Moniuszko, Bialystok, Poland</i></p> | <p>15.45 – 16.00 Short communications and discussion</p> |
| | | <p>15.50-16.00 Eosinophilic inflammation in severe asthma patients. Can we deal with it? <i>Ewa Morawiec, GSK Medical Affairs, Poland</i></p> | |
| 16.00-16.30 | Coffee Break | | |
| 16.30-18.30 | General meeting of PTIDiK members | | |

DAY 3 Saturday, 30 May, 2020

8.15-9.00

Meeting with experts

Basic Immunology

Clinical Immunology and Immunotherapy

Immunity and stem cells

Chairs:

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

9.00 – 9.20

Biological properties of mesenchymal stem cells in rheumatic diseases

Ewa Kontny, Warsaw, Poland

9.20 – 9.40

Crosslinks between innate immunity and mobilization of hematopoietic stem cells

Mariusz Ratajczak, Warsaw, Poland

9.40 – 10.00

Can immune cells affect

Immunopathology

Chairs:

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

9.00 – 9.20

A three-tier approach to diagnosing autoimmune blistering diseases based on analyzing clinical data I results of imaging and biochemical-molecular examinations

Marian Dmochowski, Poznań, Poland

9.20 – 9.40

The role of pattern recognition molecules in pathology of liver

Jan Żeromski, Poznan, Poland

9.40-10.00

Cytokines and chemokines in chronic venous insufficiency

Ewa Grudzińska, Zenon Czuba, Zabrze,

Unobvious use of immunoglobulins

Chairs:

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

9.00 – 9.25

Are immunoglobulins therapy for all diseases – evolution of clinical use

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

9.25 – 9.50

Immunoglobulins in therapy of immunodeficiency co-morbidities

Aleksandra Matyja-Bednarczyk, Cracow, Poland

9.50 – 10.15

Substitution of immunoglobulins in incompleting B cell reconstitution after HSCT due to SCID

Anna Szaflarska, Cracow, Poland

10.15 – 10.30

9.00-10.30

| | | | |
|---------------------------------|--|---|---|
| | <p>trafficking of stem cells ? <i>Marcin Moniuszko, Bialystok, Poland</i></p> <hr/> <p>10.00 – 10.20 Immunosuppressive properties of mesenchymal stem cells – perspectives of therapeutic administration <i>Marcin Moniuszko, Bialystok, Poland</i></p> <hr/> <p>10.20 – 10.30 Short communication and discussion</p> | <p><i>Poland</i></p> <hr/> <p>10.00-10.20 Influence of biologically active SP-A protein on lung cancer cell lines <i>Małgorzata Łagiedo-Żelazowska, Mariusz Kaczmarek, Jan Sikora, Poznan, Poland</i></p> <hr/> <p>10.20-10.30 Short communication and discussion</p> | <p>Short communication and discussion</p> |
| 10.30-11.00 Coffee Break | | | |
| <p>11.00-12.30</p> | <p><i>Veterinary immunology and comparative immunology</i></p> <p>Chairs: <i>Andrzej Siwicki, Olsztyn Poland</i> <i>Paulina Niedźwiedzka-Rystwej, Szczecin, Poland</i></p> <hr/> <p>11.00 – 11.10 Insights on immune cells – why are we still enchanted? <i>Paulina Niedźwiedzka-Rystwej,</i></p> | <p><i>Immunodermatology</i></p> <p>Chair: <i>Jacek Szepietowski, Wroclaw, Poland</i></p> <hr/> <p>11.00 – 11.30 <i>Jacek Szepietowski, Wroclaw, Poland</i></p> <hr/> <p>11.30 – 12.30 Short communication and discussion</p> | <p><i>Varia</i></p> <p>Chair: <i>Jacek Witkowski, Gdansk, Poland</i></p> <hr/> |

| | | | |
|-------------|--|--|--|
| | <p><i>Szczecin, Poland</i></p> <hr/> <p>11.10 – 11.30 Autophagy – how cell recycling favours homeostasis <i>Malgorzata Gajewska, Warsaw, Poland</i></p> <hr/> <p>11.30 – 11.50 Possibilities of cancer immunotherapy in veterinary medicine <i>Kinga Majchrzak-Kuligowska, Warsaw, Poland</i></p> <hr/> <p>11.50 – 12.10 Properties of antimicrobial peptides and their potential applications in veterinary medicine <i>Joanna Wessely-Szponder, Lublin, Poland</i></p> <hr/> <p>12.10 – 12.30 Short communications and discussion</p> | | |
| 12.30-13.30 | <i>Closing remarks</i> | | |
| 13.30-14.00 | Lunch | | |