

2017 ANNUAL MEETING

Immune Deficiency & Dysregulation North American Conference March 23-26, 2017 • The Westin Seattle • Seattle, Washington





ABOUT CIS

The Clinical Immunology Society (CIS), established in 1986, is the key interdisciplinary organization for the field of clinical immunology and is devoted to fostering developments in the science and practice of clinical immunology. CIS is an international professional organization which includes more than 900 clinicians, investigators, and trainees.

The mission of CIS is to facilitate education, translational research and novel approaches to therapy in clinical immunology to promote excellence in the care of patients with immunologic/inflammatory disorders.

The primary objectives and purposes of CIS are to:

- facilitate the interchange of ideas and information among physicians and other investigators who are concerned with immunological/inflammatory diseases;
- promote research on the causes and mechanisms of diseases relating to the immune system and, as a result, to unify concepts of disease pathogenesis;
- encourage investigators and clinicians to share in their knowledge of immunologically active drugs and other interventions;
- promote application and dissemination of recent advances in biomedical science for the prevention, diagnosis and treatment of diseases related to immunity and inflammation; and
- foster excellence in research and medical practice.

CIS NATIONAL OFFICE

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Clinical Immunology Society

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Dear Colleagues,

On behalf of the Clinical Immunology Society (CIS), thank you for participating in the 2017 Annual Meeting: Immune Deficiency & Dysregulation North American Conference taking place March 23-26, 2017 at The Westin Seattle in Seattle, Washington.

CIS is the key inter-disciplinary organization for the field of clinical immunology and is devoted to fostering developments in the science and practice of clinical immunology. The mission of CIS is to facilitate education, translational research and novel approaches to therapy in clinical immunology and to promote excellence in the care of patients with immunologic/inflammatory disorders.

The CIS leadership and the members of the Program Committee have jointly defined our goals and have engaged clinicians and researchers from all types of backgrounds to try to identify the best manner of addressing the critical needs. The primary goal of the Annual Meeting is to provide an exciting venue for the presentation of the newest immune deficiency diseases and the pathogenesis of these defects in molecular terms. The substance of the conference will be cutting edge clinical and basic science research. Another goal is to educate clinicians regarding state of the art clinical care. We recognize that physicians in training who are likely to see these patients need sessions on the pragmatic aspects of diagnosis and clinical care; thus sessions were designed to provide a stimulating discussion of these issues, while delving into unsolved questions. The final major goal of this conference is to begin to grow the community of physicians who feel competent to see patients with primary immune deficiency. We believe that this is the only way to consolidate and build up a community of physicians and scientists who are working in this area. This Annual Meeting is sure to foster enthusiasm and provide advanced training for physicians and researchers working in the field of primary immune deficiency.

The CIS leadership is excited about the 2017 Annual Meeting and we look forward to bringing accomplished clinical researchers together to present what is sure to be outstanding science. We hope you enjoy the meeting! Regards.

Roshini I. Abra

Jordan S. Orange, MD, PhD Baylor College of Medicine Houston, TX 2017 Program Committee Co-Chair

Roshini Sarah Abraham, PhD Mayo Clinic Rochester, MN 2017 Program Committee Co-Chair

Submit a Manuscript

The *Journal of Clinical Immunology* accepts manuscripts in the areas of human, basic, and clinical immunology and molecular biology. The areas of basic immunology include (but are not limited to) studies of lymphocytes, antigen presenting cells, neutrophils, natural killer cells, complement components, immunoglobulins, antibodies, cytokines and their receptors, immunoregulation, signal transduction, T–cell receptors, and immunoglobulin genes. Papers on animal models of human diseases are welcome. Articles dealing with molecular biology related to human diseases are accepted. Special Articles are by invitation only. Case reports will only be considered if they are linked to novel new findings/science or are accompanied by an extensive review of the relevant medical literature to the findings of the case report.

Authors, editors and reviewers of *Journal of Clinical Immunology* use our fully web-enabled online manuscript submission and review system. To keep the review time as short as possible, we request authors to submit manuscripts online to the journal's editorial office. Our online manuscript submission and review system offers authors the option to track the progress of the review process of manuscripts in real time.

About the Journal

The Journal of Clinical Immunology is a bimonthly international journal that helps researchers and academic clinicians keep current on investigative basic immunology and diseases related to the immune system. This well-established journal publishes articles on basic, translational, and clinical studies in all aspects of immunology, including animal models of human diseases. The OnlineFirst™ feature



allows articles to be viewed through the journal's website before they are available in the printed journal. The *Journal of Clinical Immunology* is the official journal of the Clinical Immunology Society.

To submit a manuscript, please visit http://www.editorialmanager.com/joci/

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MEETING LOCATION

All educational sessions, posters, exhibits, and registration held as part of the CIS Annual Meeting will take place at the The Westin Seattle.

The Westin Seattle 1900 5th Avenue Seattle, WA, 98101 P: 206-728-1000

Exhibit Hall

The Westin Seattle ~ Grand Ballroom II and III

Exhibitors provide the latest information on products and services available to physicians, researchers and allied health professionals in the field of immunology. Take this valuable opportunity to meet with companies and organizations specializing in all areas of the immunology field.

Exhibitor Move-In

Thursday March 23 8:00am – 5:00pm

Exhibit Hours

Friday, March 24th 12:30pm – 2:00pm & 6:00pm – 7:00pm Saturday, March 25th 12:30pm – 2:00pm & 5:00pm – 7:00pm

Exhibitor Move-Out

Saturday, March 25th 7:00pm — 10:00pm

POSTER SESSIONS

Poster sessions are held in the Grand Ballroom II and III, and authors will be present with their posters from 1:30pm to 2:00pm Friday, March 24 and Saturday, March 25. Lunch will be available in the Grand Foyer during the exhibit hall opening and poster session hours.

PUBLISHING OF ABSTRACTS

The abstracts submitted to the 2017 Annual Meeting are published in the April issue of *Journal of Clinical Immunology, t*he official journal of the Clinical Immunology Society. Copies are available at the CIS registration desk.

ACCESSIBILITY

If you require special arrangements in order to fully participate in the CIS Annual Meeting, please speak with a CIS staff member at the registration desk.

NAME BADGES

All registered attendees at the CIS Annual Meeting will receive a name badge as part of their registration packet. These badges should be worn at all times as they will be used to control access to sessions and activities.

SMOKING

Smoking is prohibited at all CIS Annual Meeting sessions and events.

EVALUATIONS

Delegates will have the opportunity to provide feedback on their experience at the 2017 CIS Annual Meeting. After the meeting all registered delegates will receive an online evaluation to complete. Evaluations are an important part in helping us to improve our educational sessions so please take a moment to complete it!

LISTSERV

CIS-PIDD LIST SERVICE & ECI LIST SERVICE

The E-mail CIS-PIDD service has been set up to provide an easy way for CIS members to discuss issues of common interest. The E-mail ECI List Service has been set up to provide fellows and junior faculty a dedicated place to discuss issues with each other; it is limited to Fellows-in-Training, Junior Faculty and a few select Senior Faculty members for mentor purposes. The server group may also be used to look for collaborators or new faculty members. These List Services are set up as a communication tool to help you interact with your colleagues. It is closed to the general public. Visit www.clinimmsoc.org to sign up.

REGISTRATION DESK

The Westin Seattle ~ Grand Foyer

Registration Desk Hours

Wednesday, March 22	4:00pm – 7:00pm
Thursday, March 23	7:00am – 7:00pm
Friday, March 24	7:00am – 7:00pm
Saturday, March 25	7:00am – 7:00pm
Sunday, March 26	7:00am – 10:30am

CONTINUING MEDICAL EDUCATION INFORMATION

PURPOSE

Provide an opportunity for physicians to receive updated information and solidify their knowledge of primary immune deficiency.

CONTENT AREA

The content will cover practical, cutting edge and theoretical issues related to patient care. The majority of the immune deficiencies will be covered to provide the maximal educational experience.

TARGET AUDIENCE

Physicians, scientists and nurses who are involved in the evaluation and/or care of patients with primary immune deficiencies. Participants should be pediatricians, internists, or scientists committed to the clinical management of patients with primary immunodeficiency diseases. These candidates may have backgrounds in immunology, adult medicine, rheumatology, hematology, laboratory immunology, or allergy/immunology.

LEARNING OBJECTIVES

At the completion of the activity, participants should be able to:

- Recognize the value of new research techniques;
- Describe new research findings in immunology;
- Explain the diagnosis and management of diseases and disorders across various subspecialties of medicine.

ACCME ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the sponsorship of the Clinical Immunology Society (CIS). The CIS is accredited by the ACCME to provide continuing medical education for physicians.

DESIGNATION STATEMENT

The Clinical Immunology Society designates this live activity for a maximum of 20 AMA PRA Category 1 Credit(s)^m. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CLAIMING CME

To claim CME credit and print out your CME certificate and/or certificate of attendance, please visit http://www.clinimmsoc.org/cme/am17/.



DISCLOSURES OF CONFLICT OF INTEREST

2017 ANNUAL MEETING PROGRAM COMMITTEE AND SPEAKER DISCLOSURES

The Clinical Immunology Society (CIS) require instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest (COI) they may have as related to the content of this activity. All identified COI are thoroughly vetted and resolved. The existence or absence of COI for everyone in a position to control content appears below.

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UNIVERSITY OF WASHINGTON SCHOOL OF MEDICINE Medac GmB--Provides Treosufin for study and funds to help run clinical trial

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UNIVERSITY OF NSW, AUSTRALIA Jeffrey Modell Foundation - Research grant recipient Cancer Council NSW - Research grant recipient National Health and Medical Research Council, Australia - Research grant recipi ent

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Vincent Bonagura, MD

ALEXANDRA & STEVEN COHEN CHILDREN'S MEDICAL CENTER Baxalta/Shire – Advisory committee member receiving speaker fee Grifols – Advisory committee member receiving speaker fee

SEATTLE VISITOR INFORMATION

THINGS TO DO:

Pike Place Market: 110 year old farmers market with 35 restaurants, 11 bakeries, fish & produce vendors. Visit the gum wall and the fish stand where they throw the fish while you're there!

Seattle Center: This 74-acre park was originally built for the 1962 World's Fair. It now serves as a location for arts, entertainment & leisure activities. Visit the iconic Space Needle, the Museum of Pop, the Pacific Science Center and more!

Pioneer Square: Home of the great fire of 1889, and the birth place of UPS, THE UNDERGROUND TOUR, many art & glass galleries & our professional sports stadiums.

Waterfront & Piers: Catch spectacular views of Elliott Bay, eat at one of the many fresh seafood restaurants, buy all your Seattle souvenirs at one of the many souvenir & curio shops, take a scenic ferry ride or visit the Seattle aquarium, all available on the Seattle waterfront.

International district (A.K.A., CHINA TOWN): It isn't just a place to shop & play; it's a thriving community & neighborhood. Uwajimaya Asian groceries & gifts. Hing Hay Park, Wing Luke museum, the pinball machine museum, are just some of the many attractions here.

Discovery Park: A 534 acre park in the peninsular neighborhood Magnolia. 12 miles of walking trails, the United Indians of All Tribes Daybreak Cultural Center, a lighthouse, and the chance to view Pacific Northwest wildlife.

Ballard: A hip little town in the NW Seattle area settled in 1853...offering some of the best restaurants, pubs, shops, spas & parks. Shop & stroll Market St while you're there.

Volunteer Park: Located in the North Capitol Hill neighborhood, this densely populated residential district features a prominent nightlife & entertainment area. Many great restaurants and a large alternative & counter culture community exist here.

Bainbridge Island: Has Island charm, natural beauty, rural character, offering many parks and artisan wineries, unique stores & restaurants.



PLACES TO EAT

Relish Burger Bistro (Located in The Westin)

American

Open for breakfast, lunch, and dinner

Relish Burger Bistro is a contemporary restaurant offering a modern twist on an American classic, combining Seattle's culinary influence with gourmet burgers at downtown Seattle's newest eatery.

Barolo (0.05 mi)

Italian

Open for lunch and dinner

Barolo Ristorante offers a mix of timeless, old-world northern Italian dishes crafted with a contemporary presentation, using quality natural and organic products and ingredients, many from the Pacific Northwest.

Andaluca (0.07 mi)

Mediterranean

Open for breakfast and dinner

Andaluca is a nationally recognized culinary oasis. Resonating with the romance of the Mediterranean, its food and design have been a winning combination since 1996.

Assaggio (0.09 mi)

Italian Open for lunch and dinner Italian cuisine in a space filled with Michelangelo-inspired artwork.

Miller's Guild (0.09 mi)

American Open for breakfast, lunch, and dinner Wood-fired New American fare & cask-aged cocktails in sleek, modern digs.

Dahlia Lounge (0.1 mi)

Northwest

Open lunch and dinner

Modern space serving Asian-infused Pacific Northwest cuisine & known for its coconut cream pie.

Le Pichet (0.3 mi)

French

Open for brunch, lunch & dinner

Le Pichet is a 32 seat restaurant specializing in the regional cuisine and wine of France.

2017 CIS ANNUAL MEETING SCHEDULE AT-A-GLANCE

THURSDAY, MARCH 23		
4:30pm – 6:00pm	Welcome from CIS President & Fellowship Awardee Presentations	Grand 1
6:00pm – 7:00pm	Robert A. Good Lecture Newborn Screening for PID – and Beyond Lennart Hammarström, MD, PhD	Grand 1

FRIDAY, MARCH 24		
8:00am — 9:30am	Plenary Session: Next Generation Genomics in This Generation	Grand 1
9:30am — 10:00am	Morning Break	Grand Foyer
10:00am — 11:00am	Guided Poster Sessions	Vashon I & II
11:00am – 12:30pm	Plenary Session: Immunological Lessons Learned from PIDs	Grand 1
12:30pm – 1:30pm	Lunch / Exhibit Hall Open	Grand 2 & 3 Foyer
1:30pm – 2:00pm	Poster Presentation Viewing / Exhibit Hall Open	Grand 2 & 3
2:00pm – 3:30pm	Plenary Session: The "Ome" and "Omics"	Grand 1
3:30pm – 4:00pm	Coffee Break	Grand Foyer
4:00pm – 5:00pm	The CIS Fahey/Rose Founders Lecture Translating Immunological Advances Into Solutions for Global Health Problems Chris Wilson, MD	Grand 1
5:00pm – 5:30pm	DAIT/NIAID Funding Opportunities for PID	Grand 1
5:30pm – 6:00pm	CIS Business Meeting & Award Presentations Wine & Cheese Reception to Follow	Grand 1
6:00pm – 7:30pm	ECI Reception	Lobby Bar Loft

SATURDAY, MARCH 25		
8:00am – 9:30am	Plenary Session: Immune Regulation	Grand 1
9:30am – 10:00am	Coffee Break	Grand Foyer
10:00am — 11:00am	Guided Poster Sessions	Vashon I & II
11:00am — 12:30pm	Plenary Session: Hematopoietic Cell Transplantation and Immune Reconstitution	Grand 1
12:30pm – 1:30pm	Lunch / Exhibit Hall Open	Grand 2 & 3 Foyer
1:30pm – 2:00pm	Poster Presentation Viewing / Exhibit Hall Open	Grand 2 & 3
2:00pm – 3:30pm	Plenary Session: Tales From the Listserv	Grand 1
3:30pm – 4:00pm	Coffee Break	Grand Foyer
4:00pm - 4:20pm	Presidential Award Lecture Charlotte Cunningham-Rundles, MD, PhD	Grand 1
4:20pm – 5:00pm	Richard Schiff Lecture Combinatorial Approaches to Understand Autoimmune Risk: Mechanistic Insight from Immunodeficiency and GWAS David Rawlings, MD	Grand 1
5:00pm – 7:00pm	CIS Closing Reception	Grand 2 & 3

SUNDAY, MARCH 26		
8:00am – 10:00am	Plenary Session: Hot New Defects in Primary Immunodeficiencies!	Grand 1
10:00am — 10:15am	Coffee Break	Grand Foyer
10:15am — 12:15pm	Plenary Session: Clinical Management Conundrums in PIDs	Grand 1

THURSDAY, MARCH 23

4:30 pm - 4:40 pm	Welcome from CIS President Jordan Orange, MD, PhD Baylor College of Medicine & Texas Children's Hospital	Grand Ballroom I
4:40 pm – 6:00 pm	 CIS Fellowship Grantee Presentations S AMA PRA Category 1 Credits™ Moderator: Jordan Orange, MD, PhD, Baylor College of Medicine Speakers: Revealing the Role of Human IgA in Gut Homeostasis Jared Silver, MD, PhD, Brigham and Women's Hospital Using Persistent Cutaneous Viral Infections to Uncover Novel Immune Dysfunction Sarah Henrickson, MD, PhD, The Children's Hospital of Philadelphia Oral Abstract SUCCESSFUL CLINICAL STUDY OF LENIOLISIB (CDZ173), A SMALL MOLECULE PI3K-DELTA INHIBITOR, IN PATIENTS WITH APDS/PASLI V. Koneti Rao, MD, National Institute of Allergy and Infectious Diseases, NIH 	Grand Ballroom I
6:00pm - 7:00pm	Robert A. Good Lecture Sponsored by The Robert A. Good Society and The Jeffrey Modell Foundation 1 AMA PRA Category 1 Credits™ Moderator: Jordan Orange, MD, PhD, Baylor College of Medicine Speaker: Newborn screening for PID - and Beyond Lennart Hammarström, MD, PhD, Karolinska Institutet	Grand Ballroom I
7:00pm - 8:30pm	Corporate Sponsored Dinner Symposium 1.5 AMA PRA Category 1 Credits Navigating through the Diagnostic and Treatment Controversies in Specific Antibody Deficiency: US and European Perspectives and Recommendations *Ticketed Event* Sponsored by an Unrestricted Educational Grant from Shire	Fifth Avenue Room

FRIDAY, MARCH 24

7:00am - 8:00am	Continental Breakfast	Grand Foyer
8:00am - 9:30am	Continental Breakrast Plenary Session: Next Generation Genomics in This Generation 1.5 AMA PRA Category 1 Credits™ Moderators: Roshini Sarah Abraham, PhD, Mayo Clinic Yuval Itan, PhD, The Rockefeller University Speakers: Technologies Around Genomics Brendan Lee, MD, PhD, Baylor College of Medicine Understanding the Shared Genetic Architecture of Autoimmune and Inflammatory Disorders: Implications on Mechanism and Clinical Translation Charlly Kao, PhD, Children's Hospital of Philadelphia 21st Century Genomic Advances for Clinicians Isabelle Meyts, MD, PhD, University Hospitals Leuven Oral Abstract NUCLEASE-TARGETED GENE-EDITING TO ACHIEVE STABLE FOXP3 EXPRESSION IN PRIMARY HUMAN T CELLS DELAYS	Grand Foyer
	THE ONSET XENOGENEIC MODEL OF GRAFT-VERSUS-HOST DISEASE (GVHD) Yufei Xiang, MD, PhD, Seattle Children's Research Institute	
9:30am - 10:00am	Morning Break	Grand Foyer

FRIDAY, MARCH 24, CONTINUED

10:00am - 11:00am	Guided Poster Session Group I Moderators: Jolan Walter, MD, PhD, Johns Hopkins All Children's Hospital Artemio Jongco, MPH, MD, PhD, Feinstein Institute for Medical Research COMBINED IMMUNODEFICIENCY AND EPSTEIN-BARR VIRUS-INDUCED B CELL MALIGNANCY IN HUMANS WITH INHERITED CD70 DEFICIENCY Huie Jing, PhD, National Institute of Allergy and Infectious Diseases, NIH EVALUATION OF TROUGH LEVELS OF ANTIBODIES TO 12 SEROTYPES OF S. PNEUMONIA IN A PHASE III CLINICAL TRIAL IN PATIENTS WITH PRIMARY IMMUNODEFICIENCY (PID) Troy R. Torgerson, MD, PhD, Seattle Children's Research Institute HEMATOPOIETIC STEM CELL TRANSPLANTATION RESCUES THE VASCULAR, HAEMATOLOGICAL AND IMMUNOLOGICAL PHENOTYPE IN ADENOSINE DEAMINASE 2 DEFICIENCY Isabelle Meyts, MD, PhD, University Hospitals Leuven LONG TERM PROGNOSIS IN AUTOSOMAL DOMINANT HYPER IgE SYNDROME Amanda K. Urban, CRNP, Leidos Biomedical Research A MOUSE MODEL OF TYPE 1 KABUKI SYNDROME WITH DEFECTIVE HUMORAL RESPONSES TO MUCOSAL VACCINATION Tareian A. Cazares, MS, Cincinnati Children's Hospital Medical Center	Vashon I
10:00am - 11:00am	Guided Poster Session Group II Moderators: Lisa Kobrynski, MD, MPH, Emory University Jennifer Leiding, MD, University of South Florida EFFICACY OF THE JAK INHIBITOR RUXOLITINIB IN TWO PATIENTS WITH SAVI SYNDROME Stefano Volpi, MD, PhD, Istituto Giannina Gaslini MASS MINING: A CROWDSOURCING APPROACH FOR META-ANALYZING GENE EXPRESSION SIGNATURES OF AUTOIMMUNITY USING LARGE-SCALE PUBLIC DATA SETS Rachel Sparks, MD, MPH, National Institute of Allergy and Infectious Diseases, NIH SAFETY AND EFFICACY OF GENE THERAPY USING A MODIFIED SELF-INACTIVATING GAMMARETROVIRAL VECTOR FOR SCID-X1 Sung-Yun Pai, MD, Boston Children's Hospital SIBLINGS WITH FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS TYPE 5 IN ASSOCIATION WITH SEVERE ENTEROPATHY: MANAGEMENT DILEMMAS Roxane Labrosse, MD, CHU Sainte-Justine, University of Montreal A LINEAR DISCRIMINANT MODEL TO PREDICT A CLINICAL DIAGNOSIS OF PRIMARY IMMUNODEFICIENCY Saul Oswaldo Lugo-Reyes, MD, MS, National Institute of Pediatrics	Vashon II

FRIDAY, MARCH 24, CONTINUED

TRIDAT, MARCI	1 24, CONTINUED	
11:00am - 12:30pm	Plenary Session: Immunological Lessons Learned from PIDs 1.5 AMA PRA Category 1 Credits™ Moderators: Manish Butte, MD, PhD, UCLA Monica Lawrence, MD, University of Virginia Speakers: B Cell Tolerance Mechanisms and Defects in PIDs Neil Romberg, MD, University of Pennsylvania Conventional T Cell Subsets Stuart Tangye, PhD, Garvan Institute of Medical Research Dendritic Cell Biology Venetia Bigley, MB, BChir, PhD, MRCP, FRCPath, Newcastle University Oral Abstracts MUTATIONS IN THE TYROSINE-PROTEIN KINASE LYN CAUSE AN EARLY-ONSET NEUTROPHILIC VASCULITIS SYNDROME Adriana A. Jesus, MD, PhD, National Institutes of Health MUTATIONS IN THE H+-ATPASE SUBUNIT ATP6VOA2 ASSOCIATED WITH CUTIS LAXA ALSO CAUSE NK CELL DEFICIENCY Levi B. Watkin, PhD, Baylor College of Medicine	Grand Ballroom I
12:30pm - 1:30pm	Lunch / Exhibit Hall Open	Grand Ballroom II & III, Foyer
1:30pm - 2:00pm	Poster Presentation Viewing / Exhibit Hall Open	Grand Ballroom II & III
2:00pm - 3:30pm	Plenary Session: The "Ome" and "Omics" 1.5 AMA PRA Category 1 Credits™ Moderators: Sergio Rosenzweig, MD, PhD, National Institute of Allergy and Infectious Diseases, NIH Elena Hsieh, MD, University of Colorado, Denver Speakers: Systems Genomics and Systems Immunology John Tsang, PhD, National Institute of Allergy and Infectious Diseases, NIH Transcriptome of Human Treg Subsets Daniel Campell, PhD, Benaroya Research Institute A New Genetic Etiology of Inherited NK Cell Deficiency Emmanuelle Jouanguy, PhD, INSERM / Université Paris Descartes Oral Abstract: DRIED BLOOD SPOTS FOR GENE SEQUENCING: TRAVELLING ON LOW BUDGET! Gesmar Segundo, MD, PhD, Seattle Children's Research Institute, Federal University of Uberlandia	Grand Ballroom I
3:30pm - 4:00pm	Afternoon Break	Grand Foyer
4:00pm - 5:00pm	The CIS Fahey/Rose Founders Lecture 1 AMA PRA Category 1 Credits™ Moderators: Joyce Yu, MD, Morgan Stanley Children's Hospital/Columbia University Medical Center Hans Ochs, MD, University of Washington Speaker: Translating Immunological Advances Into Solutions for Global Health Problems Christopher Wilson, MD	Grand Ballroom I
5:00pm - 5:30pm	Plenary Session: DAIT/NIAID Funding Opportunities for PID .5 AMA PRA Category 1 Credits™ Frosso Voulgaropoulou, PhD, National Institute of Allergy and Infectious Diseases, NIH	Grand Ballroom I
5:30pm - 6:00pm	CIS Business Meeting & Award Presentations Wine & Cheese Reception to Follow	Grand Ballroom I
6:00pm – 7:30pm	Early Career Immunologists (ECI) Reception	Lobby Bar Loft

SATURDAY, MARCH 25

7:00am - 8:00am	Continental Breakfast	Grand Foyer
8:00am - 9:30am	Plenary Session: Immune Regulation 1.5 AMA PRA Category 1 Credits™ Moderators: Thomas Fleisher, MD, NIH Clinical Center Joud Hajjar, MD, Baylor College of Medicine Speakers: Formation of Immunological Memory in Complex Infections Marion Pepper, PhD, University of Washington The Deficiency of Adenosine Deaminase 2A Master of Disguise Amanda Ombrello, MD, NHGRI, NIH Manipulating Regulatory T Cells to Restore Tolerance Talal Chatila, MD, Boston's Children Hospital Oral Abstracts VERY EARLY ONSET IBD- THE SEARCH FOR MONOGENIC CAUSES Kathleen Sullivan, MD, PhD, Children's Hospital of Philadelphia AN INHERITED SYNDROME OF AUTOIMMUNITY ASSOCIATED WITH CD40LG DUPLICATION Carole Le Coz, PhD, Children's Hospital of Philadelphia	Grand Ballroom I
9:30am - 10:00am	Morning Break	Grand Foyer
10:00am – 11:00am	Guided Poster Session Group I Moderators: Jack Bleesing, MD, PhD, Cincinnati Children's Hospital Zeynep Yesim Kucuk, MD, Cincinnati Children's Hospital LIVER ABNORMALITIES IN DOCK8 DEFICIENCY Anahita Agharahimi, CRNP, National Institute of Allergy and Infectious Diseases, NIH HUMAN CD40L DEFICIENCY DYSREGULATES THE MACROPHAGE TRANSCRIPTOME CAUSING FUNCTIONAL DEFECTS THAT ARE IMPROVED BY EXOGENOUS IFN-γ Antonio Condino-Neto, MD, PhD, University of Sao Paulo PATIENTS WITH XIAP DEFICIENCY HAVE CIRCULATING FREE IL-18 WHICH MAY REPRESENT A THERAPEUTIC TARGET Rebecca Marsh, MD, Cincinnati Children's Hospital Medical Center REDUCED TOXICITY ALLOGENEIC HEMATOPOIETIC CELL TRANSPLANTATION WITH BUSULFAN, FLUDARABINE AND ALEMTUZUMAB: A PROMISING APPROACH FOR PRIMARY IMMUNE DEFICIENCIES REQUIRING MYELOABLATIVE HCT? Sharat Chandra, MD, MRCPCH, Cincinnati Children's Hospital Medical Center CHROMIUM RELEASE NATURAL KILLER CELL CYTOTOXICITY HAS POOR DIAGNOSTIC ACCURACY COMPARED TO FLOW CYTOMETRIC PERFORIN AND CD107a TESTING FOR DETECTION OF PATIENTS WITH FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS Tamar S. Rubin, MD, University of Alberta	Vashon I

SATURDAY, MARCH 25, CONTINUED

10:00am — 11:00am	Guided Poster Session Group II Moderators: Megan A. Cooper, MD, Washington University in St. Louis David Hagin, MD, PhD, Tel-Aviv Sourasky Medical Center	
	VEDOLIZUMAB IN CHRONIC GRANULOMATOUS DISEASE: A SAFE AND PROMISING BRIDGE THERAPY FOR CGD RELATED COLITIS Christa S. Zerbe, MD, National Institute of Allergy and Infectious Diseases, NIH	
	GERMLINE HYPOMORPHIC, DOMINANT NEGATIVE CARD11 MUTATIONS IN SEVERE ATOPIC DISEASE. Andrew L. Snow, PhD, Uniformed Services University of the Health Sciences SEVERE COMBINED IMMUNODEFICIENCY CAUSED BY THYMIC APLASIA DUE TO FAMILIAL MUTATION IN TBX1 David S. Lindsay, MD, University of South Florida	Vashon II
	VILLOUS ATROPHY IS THE HALLMARK OF LONG TERM SURVIVAL IN CHRONIC NOROVIRUS INFECTION Avni Y. Joshi, MD, MS, Mayo Clinic	
	ROLE OF GUT MICROBIOTA TO MONITOR IMMUNE DYSREGULATION IN CONGENITAL IMMUNE DYSREGULATION SYNDROMES Eleonora Gambinieri, MD, University of Florence, Department of Sciences for Woman and Child's Health "Anna Meyer" Children's Hospital	
11:00am - 12:30pm	Plenary Session: Hematopoietic Cell Transplantation and Immune Reconstitution 1.5 AMA PRA Category 1 Credits™ Moderators: Shanmuganathan Chandrakasan, MD, Emory University School of Medicine, Children's Healthcare of Atlanta László Maródi, MD, Semmelweis University	
	Speakers: New Approaches to Hematopoietic Cell Transplantation Brenda Sandmaier, MD, Fred Hutchinson Cancer Research Center Immune Reconstitution in Hematopoietic Cell Transplantation Jan Storek, MD, PhD, University of Calgary Hematopoietic Cell Transplantation for PIDs: The Indian Experience Revathi Raj, MD, Apollo Hospitals Hematopoietic Transplantation: Thinking Outside the Box Andrew Cant, BSc, MD, FRCP, FRCPCH	Grand Ballroom I
	Newcastle General Hospital Oral Abstract WISKOTT-ALDRICH SYNDROME: AN INTERNATIONAL STUDY ANALYZING THE IMPACT OF TREATMENT DECISIONS ON FREQUENCY OF DISEASE-RELATED COMPLICATIONS AND PHYSICIAN-PERCEIVED QUALITY OF LIFE Michael H Albert, MD, Dr. von Hauner University Children's Hospital	
12:30pm - 1:30pm	Lunch / Exhibit Hall Open	Grand Ballroom II & III, Foyer
1:30pm - 2:00pm	Poster Presentation Viewing / Exhibit Hall Open	Grand Ballroom II & III,

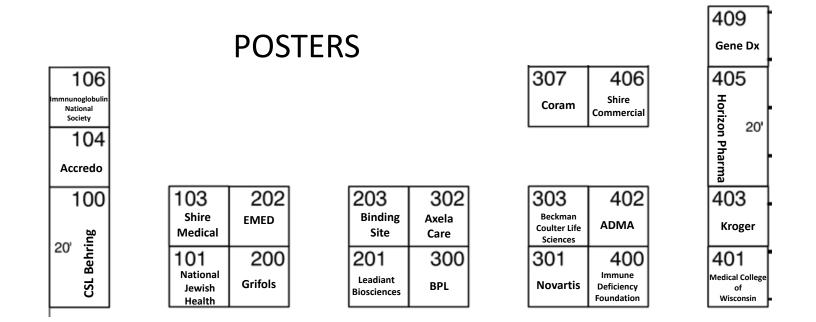
SATURDAY, MARCH 25, CONTINUED

2:00pm - 3:30pm	Plenary Session: Tales from the Listserv 1.5 AMA PRA Category 1 Credits™ Moderators: Elie Haddad, MD, PhD, CHU Ste-Justine, University of Montreal Mikko Seppänen, MD, PhD, Helsinki University Central Hospital Eric Allenspach, MD, PhD, Seattle Children's Hospital Mystery Case #1 Megan A. Cooper, MD, Washington University in St. Louis Mystery Case #2 Benjamin Wright, MD, Mayo Clinic Mystery Case #3 Luis Ignacio Gonzalez-Granado, MD, Hospital Universitario Doce de Octubre	Grand Ballroom I
3:30pm – 4:00pm	Afternoon Break	Grand Foyer
4:00pm – 4:20pm	Plenary Session: Presidential Award Lecture .25 AMA PRA Category 1 Credits™ Speaker: Charlotte Cunningham-Rundles, MD, PhD, Mt. Sinai Medical School	Grand Ballroom I
4:20pm - 5:00pm	Richard Schiff Lecture .75 AMA PRA Category 1 Credits™ Moderators: Antonio Condino-Neto, MD, PhD, University of Sao Paulo Andrew L. Snow, PhD, Uniformed Services University of the Health Sciences Speaker: Combinatorial Approaches to Understand Autoimmune Risk: Mechanistic Insight From Immunodeficiency and GWAS David Rawlings, MD, Seattle Children's Research Institute Supported by an unrestricted educational grant from Baxalta	Grand Ballroom I
5:00pm - 7:00pm	CIS Closing Reception	Grand Ballroom II & III,

SUNDAY, MARCH 26

7:00am - 8:00am	Continental Breakfast	Grand Foyer
8:00am - 10:00am	Plenary Session: Hot New Defects in Primary Immunodeficencies 2 AMA PRA Category 1 Credits™ Moderators: Maite de la Morena, MD, University of Texas Southwestern Lisa Forbes, MD, Baylor College of Medicine Speakers: A New Syndromic Defect Associated with Thymic Dysfunction and SCID Luigi Notarangelo, MD, National Institute of Allergy and Infectious Diseases, NIH New Genetic NKD Jordan Orange, MD, PhD, Baylor College of Medicine Hoffman SyndromeNew Immunodeficiency Defect Lori Broderick, MD, PhD, University of California, San Diego Human MDA5 deficiency confers susceptibility to human rhinovirus infections Helen Su, MD, PhD, National Institute of Allergy and Infectious Diseases, NIH Inherited Human ZNF341 Deficiency Underlies Candidiasis and Allergy Anne Puel, PhD, INSERM/Université Paris Descartes-Sorbonne Paris Cité Oral Abstracts RPSA MUTATIONS IN ISOLATED CONGENITAL ASPLENIA (ICA): A RIBOSOMOPATHY UNVEILED Barbara Bosch, MD, The Rockefeller University THE ZINC-FINGER-TRANSCRIPTION-FACTOR ZNF341 DEFICIENCY IN 3 SISTERS Sara Sebnem Kilic, MD, Uludağ University Medical Faculty	Grand Ballroom I
10:00am - 10:15am	Coffee Break	Grand Foyer
10:15am - 12:15pm	Plenary Session: Clinical Management Conundrums in PIDs 2 AMA PRA Category 1 Credits™ Moderators: Steven Holland, MD, National Institute of Allergy and Infectious Diseases, NIH Nicholas Rider, DO, Texas Children's Hospital Speakers: Hematopoietic Cell Transplantation for PIDs Lauri Burroughs, MD, Fred Hutchinson Cancer Research Center & University of Washington Autoimmune Cytopenias in PIDs Markus Seidel, MD, Medical University of Graz Cytokine Release Syndrome Michael Jensen, MD, University of Washington School of Medicine & Seattle Children's Research Institute IBD in PIDs Troy Torgerson, MD, PhD, University of Washington & Seattle Children's Research Institute Respiratory Papillomatosis Vincent Bonagura, MD, Alexandra & Steven Cohen Children's Medical Center	Grand Ballroom I

EXHIBIT HALL FLOOR PLAN



ENTRANCE

EXHIBITOR AND SPONSOR DESCRIPTIONS

BOOTH 104

Accredo Specialty Pharmacy

Accredo is a full-service specialty pharmacy dedicated to caring for people with rare and complex conditions. We deliver specialized pharmacy services and therapy management programs through specialty-trained pharmacists, nurses, reimbursement specialists and patient care representatives. We're committed to proactively supporting patients, their families and providers, and making medicine more affordable.

To learn more about our service, call 866.820.IVIG (4844) or visit accredo.com.

BOOTH 402

ADMA Biologics

ADMA is a late-stage biopharmaceutical company that develops, manufactures and intends to commercialize specialty plasma-based biologics for the proposed treatment of Immune Deficiencies and the prevention and treatment of certain infectious diseases. ADMA's mission is to develop and commercialize plasma-derived, human immune globulins targeted to niche patient populations for the treatment and prevention of certain infectious diseases. The target patient populations include immune-compromised individuals who suffer from an underlying immune deficiency disease, or who may be immune-compromised for medical reasons. ADMA has received U.S. Patent 9,107,906 relating to certain aspects of its product candidate. For more information, please visit www.admabiologics.com.

BOOTH 302

Axela Care

AxelaCare, a BriovaRx Infusion Services company, is a national home infusion provider with more than 30 pharmacy locations across the country, and an extensive team of employed clinicians. Services include immunoglobulin, anti-infectives, inotropes, parenteral nutrition and other specialty infusions. AxelaCare is a leader in innovation, including our Special Assistance Unit (SAU) for complex clinical and insurance issues, and CareExchange technology for wireless collection of patient outcomes for therapy optimization. Joint Commission and URAC certified, AxelaCare has extensive local, regional, and national payer contracts to facilitate an easy referral process to ensure excellent care for your patients.

BOOTH 303

Beckman Coulter Life Sciences

Beckman Coulter develops, manufactures and markets products that simplify, automate and innovate complex biomedical testing. More than 275,000 Beckman Coulter systems operate in both Diagnostics and Life Sciences laboratories on seven continents. For over 75 years, our products have been making a difference in peoples' lives by improving the productivity of medical professionals and scientists, supplying critical information for improving patient health and delivering trusted solutions for research and discovery. From basic cellular analysis to advanced cell sorting methods and flow cytometry applications count on Beckman Coulter for efficient and reliable solutions to today's research challenges.

BOOTH 203

The Binding Site

Binding Site is committed to developing special protein assays and automated systems for the improvement of patient care. The market leader in immunodiagnostics for Immunodeficiency, Binding Site assays measure specific antibody response to vaccinations and quantify immunoglobulins, IgG and IgA subclasses. Run on the Optilite® analyzer, the future of special protein testing, our wide menu of assays includes Freelite® for the diagnosis and monitoring of myeloma. With our extensive development expertise, patented antibody production technology, and medical educators, backed by clinical practice guidelines, Binding Site provides healthcare professionals with tools to significantly improve diagnosis and management of patients. www.bindingsite.com

BOOTH 300

Bio Products

Bio Products Laboratory (BPL) is a global company with 60 years of history in plasma research, technology, and manufacturing. Originally part of the world-famous Lister Institute, BPL has a full line of products derived from plasma collected at 35 company-owned collection centers across the US. For more information please visit www.bpl-us.com.

BOOTH 307

Coram CVS Specialty Infusion Services

CVS Specialty and Coram provide compassionate, high-quality infusion care to patients where they live, work or travel. With nearly 1,200 skilled clinicians, more than 90 locations and 70 local infusion suites, and more than 30 years of experience, Coram CVS Specialty Infusion Services provides access to 99.9 percent of all infused drugs, including immunoglobulins, and those for alpha-1 and MS.

On-site Clinical Service Liaisons provide complete discharge-to-home coordination. All patients receive individualized care, support, training, and easy-to-use instruction materials. Leading with commitment from the heart, the company has achieved a 96 percent patient satisfaction rating for seven years.

BOOTH 100

CSL Behring

CSL Behring is a global biotherapeutics leader driven by our promise to save lives. We meet patients' needs using the latest technologies to develop and deliver innovative therapies. The company offers the broadest range of products in the industry for treating primary immune deficiencies, coagulation disorders, hereditary angioedema, inherited respiratory disease, and neurological disorders. CSL Behring's products are also used in cardiac surgery, organ transplantation, burn treatment and to prevent hemolytic disease of the newborn. The company operates one of the world's largest plasma collection networks. For more information visit www.cslbehring.com and follow us on www.Twitter.com/CSLBehring.

BOOTH 202

EMED Technologies

EMED Technologies develops, manufactures and markets the SCIg60[™] Infusion System. This unique sub-q infusion system is the only mechanical syringe pump system cleared by FDA for use with subcutaneous immunoglobulin Hizentra, Gammagard and Shire's new Cuvitru. The system features Soft-Glide[®] needle sets, patented VersaRate[®] and Versarate Plus[®] adjustable flow rate control sets and a flow rate calculator which can be accessed at www.versarate.com.

BOOTH 409

GeneDX

BOOTH 200

Grifols USA, LLC

Grifols is a global healthcare company whose mission is to improve the health and well-being of people around the world. We have three primary divisions – Bioscience, Diagnostic and Hospital – that develop, produce and market our innovative products and services to medical professionals in more than 100 countries around the world.

BOOTH 405

Horizon Pharma

Horizon Pharma plc is a biopharmaceutical company focused on improving patients' lives by identifying, developing, acquiring and commercializing differentiated and accessible medicines that address unmet medical needs. The Company markets 11 medicines through its orphan, rheumatology and primary care business units. For more information, please visit: http://www.horizonpharma.com/

EXHIBITOR LISTING

BOOTH 400

Immune Deficiency Foundation

The Immune Deficiency Foundation (IDF) is the national non-profit patient organization dedicated to improving the diagnosis, treatment and quality of life of persons with primary immunodeficiency diseases through advocacy, education and research.

BOOTH 106

Immunoglobulin National Society

Immunoglobulin National Society (IgNS) is the leading professional organization dedicated to the advancement of Ig Therapy practice across healthcare professional disciplines, areas of practice, and treatment settings. IgNS offers robust educational programs for nurses, pharmacists, and physicians; Ig Therapy Standards of Practice; and Certification. Visit us at www.ig-an.org. Save the date for the IgNS 6th National Conference on October 5-8, 2017.

BOOTH 403

Kroger Specialty Infusion

Kroger Specialty Infusion is a specialized provider of IgG therapy. Our unique service model includes pharmacy expertise that includes review and monitoring of patient outcomes and a unique wellness approach to Ig therapy. We possess a national network of infusion nurses specifically trained in IgG administration. Our streamlined care coordination includes superior reimbursement services and a high touch patient advocacy program tailored to the individualized needs of IgG patients and their caregivers.

BOOTH 201

Leadiant Biosciences, Inc.

Leadiant Biosciences, Inc. is a rare corporation dedicated to creating novel medicines for the unmet needs of patients with rare diseases. Truly unique in its field, Leadiant Biosciences places its considerable scientific resources behind the discovery of compounds that benefit the few. Simply because it's the right thing to do. By maintaining an environment based on integrity, commitment, and placing the patient first, Leadiant Biosciences is able to consider what may be a small commercial success nothing less than a human triumph.

BOOTH 401

Medical College of Wisconsin

The Clinical Immunodiagnostic and Research Laboratory (CIRL) and Allergy Immunology Diagnostic Lab Center (AIDLC), at MCW, perform comprehensive testing for the diagnosis of primary immunodeficiencies (PIDs) and allergic disorders. The CIRL performs flow cytometric-based assays for the detection of PIDs. The AIDLC performs serologic assays for the diagnosis of hypersensitivity pneumonitis, allergic bronchopulmonary aspergillosis and latex allergy. The AIDLC also performs a Salmonella Typhi IgG assay to quantitate specific antibody responses to the killed polysaccharide S. typhi vaccine.

BOOTH 101

National Jewish Health

National Jewish Health Advanced Diagnostic Laboratories is a CAP, CLIA and CAP151895M laboratory with unparalleled expertise developing immunological tests for immune deficiency and immune dysregulation - including comprehensive analysis of the complement system as well as the innate and adaptive immune systems, beryllium exposure, evaluation of hypersensitivity to nickel, cobalt and chromium metals in the context of joint implant failure, testing for infectious disease and molecular diagnostic tests. We have decades of experience in diagnostic testing in respiratory disease, immune deficiency, allergy and autoimmunity. Through collaborations with our world-renowned physicians and laboratory scientists, we develop high-quality laboratory tests and new therapies that transform lives.

BOOTH 301

Novartis

Novartis Pharmaceuticals Corporation is dedicated to discovering, developing, manufacturing and marketing prescription drugs that help meet our customers' medical needs and improve their quality of life. For more information please visit our exhibit.

NOT EXHIBITING

Seattle Children's Research Institute

Ranked as one of the top five children's hospitals by U.S. News & World Report, Seattle Children's serves as the pediatric and adolescent academic medical center for Washington, Alaska, Montana and Idaho. Seattle Children's Research Institute is internationally recognized for its work in immunology and gene therapy through its Program in Cell and Gene Therapy (PCGT). The PCGT is developing curative therapies for children with inherited diseases of the blood and immune system. It is actively implementing gene replacement clinical trials and, in parallel, developing novel gene editing approaches for these disorders and for restoring tolerance in autoimmunity and transplantation. More information: www.seattlechildrens.org/research

BOOTH 406

Shire – Commercial

Shire is the leading global biotechnology company focused on serving people with rare diseases and other highly specialized conditions. We strive to develop best-in-class products, many of which are available in more than 100 countries, across core therapeutic areas including Hematology, Immunology, Neuroscience, Ophthalmics, Lysosomal Storage Disorders, Gastrointestinal/Internal Medicine/Endocrine and Hereditary Angioedema; and a growing franchise in Oncology. Our employees come to work every day with a shared mission: to develop and deliver breakthrough therapies for the hundreds of millions of people in the world affected by rare diseases and other high-need conditions, and who lack effective therapies to live their lives to the fullest.

BOOTH 103

Shire – Medical Affairs

The Shire Medical Affairs booth will be staffed by Shire Medical Affairs representatives who are able to answer medical and scientific questions about Shire's immune globulin products. For more information on the Immunology therapeutic area, please visit www.shire.com

Poster	Poster Title	Name	Affiliation
1	A NOVEL MUTATION IN THE SAND DOMAIN OF AIRE EXPLAINS THE HIDDEN RISK IN A PATIENT WITH TYPE I DIABETES MELLITUS	Jordan K. Abbott	National Jewish Health
2	MYELOSUPPRESSION EFFECT OF TRIMETHOPRIM-SULFAMETHOXAZOLE PROPHYLAXIS IN PRIMARY IMMUNE DEFICIENCY DISEASE PATIENTS	Mehdi Adeli	Hamad Medical Corporation
3	NOVEL FAMILIAL NK CELL IMMUNODEFICIENCY REVEALED BY MASS CYTOMETRY AND WHOLE EXOME SEQUENCING	Joshua Alinger	Washington University in St Louis
4	COMPOUND HETEROZYGOUS RTEL1 MUTATIONS IN A CHILD WITH NEUTROPENIA, LYMPHADENITIS, RECURRENT INFECTIONS, AND DECREASED NK CELL FUNCTION.	Aba Al-Kaabi	Baylor College of Medicine
5	CLINICAL, IMMUNOLOGICAL AND MOLECULAR CHARACTERIZATION OF 93 PATIENTS WITH MAJOR HISTOCOMPATIBILITY CLASS II DEFICIENCY: A SINGLE CENTRE EXPERIENCE	Hamoud Al-Mousa	King Faisal Specialist Hospital & Research Center
6	A RARE CASE OF IDIOPATHIC CD4 LYMPHOCYTOPENIA WITH ACUTE RESPIRATORY FAILURE	Afia Babar	The Wright Center for Graduate Medical Education
7	RETROSPECTIVE ANALYSIS OF THE IMPORTANCE OF IMMUNOLOGIC EVALUATION IN PATIENTS RECEIVING RITUXIMAB AND CLINICAL IMPLICATIONS	Sara Barmettler	Massachusetts General Hospital
8	FUNCTIONAL DIAGNOSIS OF ATAXIA TELANGIECTASIA IN A FEMALE INFANT IDENTIFIED VIA NEWBORN SCREENING FOR SCID (NBS SCID)	Sara Barmettler	Massachusetts General Hospital
9	IDENTIFICATION OF T-CELL RECEPTOR CLONOTYPES IMPORTANT IN THE PATHOGENESIS OF COMMON VARIABLE IMMUNODEFICIENCY (CVID)	Sara Barmettler	Massachusetts General Hospital
10	T CELL LYMPHOPENIA WITH JAK3 MUTATIONS ASSOCIATED WITH DECREASED SIGNALING THROUGH THE IL-7 RECEPTOR	Jenna R.E. Bergerson	Ann and Robert H. Lurie Children's Hospital of Chicago
11	TREATMENT SATISFACTION DURING CLINICAL TRIALS WITH THE NEW HUMAN SUBCUTANEOUS IMMUNOGLOBULIN (SCIG 20%) IN PATIENTS WITH PIDD IN EUROPE (EU) AND NORTH AMERICA (NA) WHO WERE PREVIOUSLY TREATED WITH IVIG	Todd Berner	Shire
12	TREATMENT PREFERENCE ON THE NEW SUBCUTANEOUS IMMUNOGLOBULIN 20% (SCIG 20%) TREATMENT IN PATIENTS WITH PRIMARY IMMUNODEFICIENCY DISEASES (PIDD) IN EUROPE (EU)	Todd Berner	Shire
13	COMPLEX IMMUNE COMPLEXES - A RARE CASE OF XLA AND MPGN	Annaliesse Blincoe	CHU Sainte-Justine, University of Montreal
14	INCREASED MEMORY B CELLS — AN UNEXPECTED FINDING IN A PATIENT WITH A SPLICE SITE MUTATION IN PIK3R1 RESPONSIBLE FOR HYPER-IgM SYNDROME	Annaliesse Blincoe	CHU Sainte-Justine, University of Montreal
15	A NEW CASE OF X-LINKED PIGMENTARY RETICULATE DISORDER LINKED TO A RECURRENT MUTATION IN POLA1	Arturo Borzutzky	Pontificia Universidad Católica de Chile
16	PRIMARY INTESTINAL LYMPHANGIECTASIA (WALDMANN'S DISEASE) MIMICKING COMMON VARIABLE IMMUNODEFICIENCY	Arturo Borzutzky	Pontificia Universidad Católica de Chile
17	CHRONIC MUCOCUTANEOUS CANDIDIASIS DUE TO LIFR DEFICIENCY (STÜVE-WIEDEMANN SYNDROME)	Arturo Borzutzky	Pontificia Universidad Católica de Chile
18	Th17 IMPAIRMENT IN A PATIENT WITH ACTIVATED PHOSPHOINOSITIDE- 3-KINASE-Δ SYNDROME (APSD) AND SALMONELLA SEPSIS.	Giorgia Bucciol	University of Padova; KU Leuven
19	RECURRENT SEVERE RESPIRATORY INFECTIONS DUE TO PATHOGENIC VARIANT IN TECPR2	Roxanne C. Oriel	Hofstra Northwell School of Medicine

Poster	Poster Title	Name	Affiliation
20	CVID WITH RENAL INTERSTITIAL INFLAMMATORY INFILTRATE OF CD 3+ CD8+ T CELLS	Jason W Caldwell	Wake Forest University School of Medicine
21	16q24 DUPLICATION AND IVEMARK SYNDROME: A NOVEL GENOMIC CAUSE?	Magda Carneiro-Sampaio	University of Sao Paulo
22	HYPERCOAGULABLE STATE IN CHRONIC GRANULOMATOUS DISEASE (CGD)	Johana B Castro-Wagner	University of South Florida
23	SEVERE COMBINED IMMUNE DEFICIENCY (SCID): NEED FOR UNIVERSAL NEWBORN SCREENING (NBS) IN PENNSYLVANIA (PA)	Hey Chong	Children's Hospital of Pittsburgh
24	A NOVEL CAUSE OF LYMPHOPENIA AND PRIMARY IMMUNODEFICIENCY ASSOCIATED WITH GERMLINE-ENCODED LOSS-OF-FUNCTION VARIANTS IN SGPL1	Megan A. Cooper	Washington University in St. Louis
25	MHV68 INFECTION IN A NOVEL rag2F62L/F62L MOUSE MODEL BASED ON A PATIENT WITH CID-AI/G PHENOTYPE	Krisztian Csomos	University of South Florida
26	SAFETY AND EFFECTIVENESS OF CONTINUOUS PROPHYLAXIS WITH AZITHROMYCIN FOR AUTOSOMAL DOMINANT HYPER-IGE SYNDROME (AD-HIES) PATIENTS: A 5-YEARS FOLLOW-UP	Jose Marcos Cunha	Federal University of Rio de Janeiro
27	A NOVEL MUTATION IN RIT1 GENE CAUSING NOONAN SYNDROME TYPE 8: MANAGEMENT OF HYPOGAMMAGLOBULINEMIA AND SEVERE ANEMIA ASSOCIATED WITH EXTENSIVE GASTROINTESTINAL LYMPHANGIECTASIA	Jose Marcos Cunha	Federal University of Rio de Janeiro
28	COMBINED IMMUNODEFICIENCY IN A BOY WITH MILLER-DIEKER SYNDROME.	Yesim Demirdag	Columbia University Medical Center, New York Presbyterian Hospital
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