



2015 Annual Meeting

Immune Deficiency & Dysregulation North American Conference

April 9-12, 2015 | Hilton Americas | Houston, Texas

FINAL PROGRAM





ABOUT THE CLINICAL IMMUNOLOGY SOCIETY

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 600 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.

JOIN US



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Dear Colleagues,

On behalf of the Clinical Immunology Society (CIS), thank you for participating in the 2015 Annual Meeting: Immune Deficiency & Dysregulation North American Conference taking place April 9-12, 2015 at the Hilton Americas in Houston, Texas.

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 the 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 2015 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!

Donald B. Kohn

Donald B. Kohn, MD
University of California, Los Angeles
2015 Program Committee Co-Chair

Luigi D. Notarangelo

Luigi D. Notarangelo, MD, PhD
Children's Hospital Boston
Harvard Medical School
2015 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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GENERAL MEETING INFORMATION

MEETING LOCATION

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

Hilton Americas

1600 Lamar Street, Houston, TX 77010

P: (713) 739-8000

Registration Desk

Hilton Americas ~ 2nd Floor, Ballroom of the Americas Foyer

Registration Desk Hours

Wednesday, April 8	4:00pm – 7:00pm
Thursday, April 9	7:00am – 8:00pm
Friday, April 10	7:00am – 6:30pm
Saturday, April 11	7:30am – 7:00pm
Sunday, April 12	7:00am – 10:00am

EXHIBIT HALL

Hilton Americas ~ 2nd Floor, Ballroom of the Americas A-C

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.

Exhibit Hours

Thursday April 9th

11:30am – 1:30pm

5:30pm – 6:30pm

Friday April 10th

11:30am – 1:00pm

Saturday April 11th

12:00pm – 1:30pm

POSTER SESSIONS

Poster sessions are held in the exhibit hall and authors will be present with their posters during exhibit hall hours. Lunch will be available during the afternoon poster session hours.

PUBLISHING OF ABSTRACTS

The abstracts submitted to the 2015 Annual Meeting are published in the April issue of Journal of Clinical Immunology, the 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 2015 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 them!

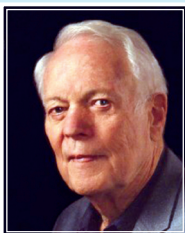
This year a limited number of Fellows were selected receive travel grants. The following fellows traveling to Houston are being awarded travel grants:

Alice Chan, MD, PhD – University of California, San Francisco
Jasmeen Dara, MD – Montefiore Medical Center
Svjetlana Dolovcak, MD – University of Iowa Hospitals and Clinics
Cullen Dutmer, MD – National Jewish Health
Bob Geng, MD – University of California, Los Angeles Medical Center
Alexei Gonzalez-Estrada, MD – Respiratory Institute Cleveland Clinic
Bruce Lanser, MD – National Jewish Health
Lahari Rampur, MD – Montefiore Medical Center
Jennifer Toh, MD – Montefiore Medical Center
Kelli Williams, MD, MPH – NIAID, NIH
Karl Yu, MD, PhD – Comer Children's Hospital/University of Chicago

Travel Grants made possible through the support of the

IMMUNE DEFICIENCY FOUNDATION

IN MEMORIAM



JOHN FAHEY, MD, MS

Co-Founder of CIS and pioneer in immunology and HIV research
1924-2014



RICHARD SCHIFF, MD, PHD

Dedicated child immunologist
1946-2014

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 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.

EXPECTED RESULTS

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 19 *AMA PRA Category 1 Credit(s)*[™]. 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 www.clinimmsoc.org/cme/am15

DISCLOSURES OF CONFLICT OF INTEREST

2015 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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GSK – Consultant receiving Consultant fee

Ono Pharmaceuticals Ltd – Consultant receiving Consultant fee

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There are no relationships to disclose.

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Pfizer – Consultant receiving Consultant fee

Sanofi – Consultant receiving Consultant fee

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Exogen Bio, Inc. – Member on scientific advisory board receiving Stock option.

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ADMA Biologics – Supported Clinical Trials

Baxter – Member on Advisory Committee received Consultant fee

Kedrion – Member on Advisory Committee received Consultant fee

Novartis – Advisor not receiving anything

Regeneron – Consultant not receiving anything

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Association of Medical Laboratory Immunologists – Speaker receiving Honorarium

Elsevier – Co-editor of Clinical Immunology:

Principles and Practice receiving Book royalty

Texas Allergy, Asthma and Immunology Society –

Speaker receiving Honorarium

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Viracyte – Founder with ownership interest

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CSL Behring – Consultant receiving Consultant fee; Speaker receiving Speaker fee; Investigator receiving Research grant
Walgreens – Consultant receiving Consultant fee

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GSK – Consulting receiving Consultant fee
Merck – Consulting receiving Consultant fee
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Compugen – SAB Membership receiving Stock holder

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Octapharma, Finland – Speaking and teaching receiving Chair & Organizer fee

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Biocrys – Principal investigator receiving Investigator fee
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Immune Deficiency Foundation – Primary investigator receiving Grant; Consulting immunologist receiving Consultant fee

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CSL Behring – Consultant receiving Research grant
Infant Bacterial Therapeutics – Consultant
QuestCor – Consultant

HOUSTON VISITOR INFORMATION

THINGS TO DO:

The Hilton Americas is located in the heart of downtown Houston near local attractions and premier dining options.

Discovery Green Park

A 12-acre park in the heart of Houston that hosts concerts, movies, fitness classes & so much more.

Houston Zoo

Founded in 1922 & home to more than 6,000 exotic animals the Zoo lets you travel to Africa & back in a day.

Houston Astros

Home of the Houston Astros, Minute Maid Park combines classic old-time park with modern amenities. The park opened in 2000, and recent additions include the Chik-Fil-A cows on the foul poles asking fans to "EAT MOR FOWL".

Theatre District

The Houston Theater District is a 17-block area of downtown that ranks second in the US for number of seats in a concentrated downtown area. Catch a Broadway show, opera, symphony orchestra, or concert! The options are endless.

Downtown Aquarium

Dive into a unique experience at the Downtown Aquarium which turned two Houston landmarks – Fire Station No. 1 and the Central Waterworks Building – into an aquarium and restaurant. Over 200 species of aquatic animals live in the 5 different themed areas.

Houston Texans/Houston Live Stock Show & Rodeo

Stop over at the NRG Stadium to see the home of a variety of sporting events. This stadium is used for the Houston Texans, the Houston Live Stock Show & Rodeo, the Texas Bowl, & international USA Soccer matches.

The Health Museum

Release your inner child and check out the most visited health museum in the country. Ride a bicycle with a skeleton, sit on giant teeth, or measure your voice in the scream booth!

Space Center Houston

Houston has been nicknamed "Space City" because it is the home to America's astronaut corps where they and many international astronauts train. Test your hands at landing a shuttle (in a simulator, of course) and see what it's like to live in space at the visitor's center at NASA's Johnson Space Center.

The Bayou Place

This downtown dining and entertainment destination is experiencing a renaissance. Drink and dine while you catch a flick at Sundance Cinemas. There's not a bad seat in the house at The Bayou Music Center which is also home to the Houston Roller Derby. Go for a classic favorite at the Hard Rock Café. All of these dining-entertainment hot spots are at The Bayou Place.

Wildcat Golf Club

Houston Texans DE and NFL Defensive Player of the Year, J.J. Watt, and Heisman Trophy Winner, Johnny Manziel, have one thing in common – they both golf at Houston's best public course. Schedule a tee time for either of the two spectacular courses which feature elevations up to 100 feet providing spectacular views of Houston's downtown skyline.

PLACES TO DINE:

The Grove (0.0 miles)

P: (713) 337-7322

Modern American

Open for lunch and dinner

A modern and elegant urban dining experience located on the South End of Houston's Discovery Green at this definitive see-and-be-seen culinary hotspot.

Ill Forks Prime Steakhouse (0.4 miles)

P: (713) 658-9457

Steakhouse

Open for lunch and dinner

A lively bar and lounge area with menu items featuring hand-selected USDA prime beef, ocean-fresh seafood, as well as lighter, local favorites.

Massa's Seafood Grill (0.2 miles)

P: (713) 655-9100

Seafood

Open for lunch and dinner

With superior seafood and pasta and a fine wine list, this seafood grill is sure to make the meal a memorable occasion.

Mia Bella Trattoria (0.4 miles)

P: (832) 319-6675

Italian

Open for lunch and dinner

Like the traditional trattorias where Italian families gathered for wine and delicious food, this restaurant offers a delightful combination of Italian tradition and regional American twists.

MKT Bar (0.2 miles)

P: (832) 360-2222

Tapas

Open for lunch and dinner

Wine and beer bar offering small bites and an urban, yet relaxed setting to unwind after a long day.

Tony's Barbecue & Steakhouse (0.6 miles)

P: (713) 655-0033

American

Open for lunch and dinner

Laid-back eatery dishing smoked meats, steak dinners & sides plus made-from-scratch desserts.

SCHEDULE AT A GLANCE

	Ballroom of the Americas Foyer	Ballroom of the Americas A-C	Ballroom of the Americas D&E	Ballroom of the Americas A	Meeting Room 340	Meeting Room 344	Meeting Room 346
Wednesday, April 8							
4:00 pm - 8:00pm		Exhibit Hall Set-up/ Exhibitor Move in					
4:00pm - 7:00pm						Speaker Ready Room	
4:00pm - 7:00pm	Registration Open						
5:00pm - 7:00pm							CIS Council Meeting
Thursday, April 9							
7:00am - 11:30am		Exhibitor Move-in					
7:30am - 7:30pm						Speaker Ready Room	
7:00am - 8:00pm	Registration Open						
7:00am - 8:00am	Breakfast						
8:00am - 5:30pm			Update in PID				
11:50am - 1:30pm		Exhibit Hall Open					
11:50am - 12:30pm		Update in PID Guided Poster Session					
12:30pm - 1:30pm		Exhibit / Poster Hall Open		Lunch			
5:30pm - 6:30pm		Welcome Reception / Exhibit Hall Open					
6:30pm - 7:15pm			Welcome & Robert A. Good Lecture				
7:30pm - 9:00pm				The Scientific Approach to the Patient Experience in Primary Immunodeficiency			
Friday, April 12							
7:30am - 7:00pm						Speaker Ready Room	
7:00am - 8:00am	Breakfast						
7:00am - 6:30pm	Registration Open						
7:30am - 8:00am		Guided Poster Session					
8:00am - 10:00am			Cancer Immunotherapy				
10:00am - 10:30am	Morning Break						
10:30am - 11:30am			Tales from the Listserv				
11:30am - 1:00pm		Exhibit / Poster Hall Open		Lunch			
1:00pm - 3:00pm			Auto-Immunity				
3:00pm - 3:30pm	Afternoon Break						
3:30pm - 5:00pm			Cytokines		Telomerase Defects		
5:00pm - 5:15pm	Late Afternoon Break						

SCHEDULE AT A GLANCE

	Ballroom of the Americas Foyer	Ballroom of the Americas A-C	Ballroom of the Americas D&E	Ballroom of the Americas A	Meeting Room 340	Meeting Room 344	Meeting Room 346
Friday, April 12, continued							
5:15pm - 6:15pm			The CIS Fahey/Rose Founders Lecture				
6:15pm - 8:00pm				Improving Health, Empowering Research USIDNET, the IDF ePHR and PI Connect Research Symposium			
Saturday, April 11							
7:30am - 5:45pm						Speaker Ready Room	
7:30am - 8:30am	Breakfast						
7:30am - 7:00pm	Registration Open						
8:00am - 9:30am			Transplanting the Infected / Inflamed Patient		Innate Lymphoid Cells in Immune Homeostasis		
9:30am - 10:00am			CIS Business Meeting & Award Presentation				
10:00am - 10:30am	Morning Break	Guided Poster Session					
10:30am - 12:00pm			Vaccines!				
12:00pm - 1:30pm		Exhibit / Poster Hall Open		Lunch			
1:30pm - 3:00pm			Controversial and Challenges Diagnosing PI in the Office				
1:30pm - 5:00pm		Exhibit Hall Tear Down					
3:00pm - 3:30pm	Afternoon Break						
3:30pm - 5:30pm			Hot New Defects				
5:30pm - 5:45pm	Late Afternoon Break						
5:45pm - 6:30pm			Special Guest Appearance				
6:30pm - 8:00pm				CIS Closing Reception			
Sunday, April 12							
7:00am - 10:00am						Speaker Ready Room	
7:00am - 8:00am	Breakfast						
7:00am - 10:00am	Registration Open						
8:00am - 10:00am			PIDTC Session				

SCHEDULE OF EVENTS

THURSDAY, APRIL 9

5:30pm – 6:30pm	Welcome Reception	Ballroom of the Americas A-C
6:30pm – 7:15pm	Welcome from CIS President Donald B. Kohn, MD, University of California, Los Angeles Robert A. Good Lecture <i>.75 AMA PRA Category 1 Credit™</i> Toward a Genetic Theory of Childhood Infectious Diseases Jean-Laurent Casanova, MD, PhD, The Rockefeller University	Ballroom of the Americas D&E
7:30pm – 9:00pm	The Scientific Approach to the Patient Experience in Primary Immunodeficiency Dinner Symposia <i>Supported by an educational grant from Baxter.</i> <i>1.5 AMA PRA Category 1 Credits™</i> Moderator: Troy Torgerson, MD, PhD, University of Washington Speakers: Charlotte Cunningham-Rundles, MD, PhD, Mt Sinai Medical Center Jordan S. Orange, MD, PhD, Baylor College of Medicine Quality of Life in Patients with Primary Antibody Deficiencies Isabella Quinti, MD, PhD, Sapienza University of Rome	Ballroom of the Americas A

FRIDAY, APRIL 10

7:00am – 8:00am	Breakfast	Ballroom of the Americas Foyer
7:30am – 8:00am	Guided Poster Session Moderator: Roshini Sarah Abraham, PhD, Mayo Clinic Group 1 STEM CELL TRANSPLANTATION AND LONG-TERM SURVIVAL FOR PRIMARY IMMUNODEFICIENCIES: OUTCOMES AMONG THE DONOR SOURCES AND DIFFERENT DIAGNOSTIC GROUPS Caridad Martinez, MD, Baylor College of Medicine RESULTS OF A PHASE III TRIAL IN PATIENTS WITH PIDD USING AN IVIG CONTAINING HIGH TITER NEUTRALIZING ANTIBODY TO RESPIRATORY SYNCYTIAL VIRUS (RSV) James Mond, MD, PhD, ADMA Biologics DEEP SEQUENCING OF THE IGH LOCUS IN COMMON VARIABLE IMMUNE DEFICIENCY REVEALS GLOBAL ALTERATIONS IN CENTRAL AND PERIPHERAL B CELL DEVELOPMENT Noa Simchoni, MD, Icahn School of Medicine at Mount Sinai RUXOLITINIB EFFECTS ON STAT1 GAIN OF FUNCTION MUTATIONS Ofer Zimmerman, MD, NIAID Moderator: Caroline Kuo, MD, University of California, Los Angeles Group 2 TARGETED GENE THERAPY IN THE TREATMENT OF X-LINKED HYPER-IgM SYNDROME Caroline Kuo, MD, University of California, Los Angeles HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS CAUSED BY XIAP DEFICIENCY IN A FEMALE PATIENT WITH HETEROZYGOUS BIRC4 MUTATION AND SEVERE X CHROMOSOME SKEWING Kejian Zhang, MD, MBA, Cincinnati Children's Hospital Medical Center RECURRENT MYCOBACTERIUM INFECTIONS WITH CD4 LYMPHOPENIA : A MISSED CASE OF NEMO DEFICIENCY Erinn Samantha Kellner, MD, University of South Florida	Ballroom of the Americas A-C

SCHEDULE OF EVENTS

FRIDAY, APRIL 10, CONTINUED

	EXOME SEQUENCING UNCOVERS A HETEROZYGOUS STAT4 MUTATION IN A FAMILY WITH SUSCEPTIBILITY TO PACAROCCIDIOIDOMYCOSIS Lena F. Schimke, MD, University of Sao Paulo – Institute of Biomedical Sciences FUNCTION, PHENOTYPE AND STATS PROTEIN ACTIVATION IN CD56dim NK CELLS FROM PATIENTS WITH STAT1 GOF MUTATIONS Alexander Vargas-Hernandez, PhD, CINVESTAV-IPN	
8:00am – 10:00am	Plenary Session: Cancer Immunotherapy 2 AMA PRA Category 1 Credits™ Moderator: Steven M. Holland, MD, NIAID, NIH Speakers: Immunotherapy with Antigen Specific T Cells Helen Heslop, MD, Baylor College of Medicine Natural Killer Cell Effects Against Cancer Katharine C. Hsu, MD, PhD, Memorial Sloan Kettering Cancer Center Treating Cancer with PD-1 Blockade Antoni Ribas, MD, UCLA Oral Abstract: 9:30am – 9:40am ALEMTUZUMAB, FLUDARABINE, AND MELPHALAN REDUCED INTENSITY CONDITIONING REGIMENS ARE SAFE FOR PATIENTS WITH XIAP DEFICIENCY Rebecca Marsh, MD, Cincinnati Children's Hospital Medical Center	Ballroom of the Americas D&E
10:00am – 10:30am	Morning Break	Ballroom of the Americas Foyer
10:30am – 11:30am	Tales from the Listserv 1 AMA PRA Category 1 Credit™ Moderator: Mikko Seppänen, MD, PhD, Helsinki University Central Hospital Speakers: 10:30am – 10:45am Mystery Case #1 David Buchbinder, MD, MS, Children's Hospital of Orange County 10:45am – 11:00am Mystery Case #2 Megan Cooper, MD, PhD, Washington University 11:00am – 11:30am Mystery Case #3 Roshini Sarah Abraham, PhD, Mayo Clinic Michael B. Jordan, MD, Cincinnati Children's Hospital Medical Center	Ballroom of the Americas D&E
11:30am – 1:00pm	Lunch / Poster Viewing / Exhibit Hall Open	Ballroom of the Americas A-C
1:00pm – 3:00pm	Plenary Session: Auto-Immunity 2 AMA PRA Category 1 Credit™ Moderator: Elena Hsieh, MD, Stanford University Speakers: 1:00pm – 1:30pm M. Virginia Pascual, MD, Baylor Institute for Immunology Research 1:30pm – 2:00pm Molecular Mechanisms of IFIH1 and Inflammation Sun Hur, PhD, Harvard Medical School, Boston Children's Hospital 2:00pm – 2:30pm New Mechanisms in Autoinflammation: Interferon-Mediated Autoinflammatory Diseases Raphaella Goldbach-Mansky, MD, NIAMS, NIH	Ballroom of the Americas D&E

SCHEDULE OF EVENTS

FRIDAY, APRIL 10, CONTINUED

2:30pm – 2:40pm	Oral Abstracts: SEVERE AUTOIMMUNE SYNDROME MEDIATED BY NOVEL MUTATIONS OF ZAP70 Alice Y. Chan, MD, PhD, University of California, San Francisco	
2:40pm – 2:50pm	MYCHOPHENOLATE MOFETIL AND SIROLIMUS AS SECOND OR FURTHER LINE TREATMENT IN CHILDREN WITH CHRONIC REFRACTORY IDIOPATHIC OR SECONDARY AUTOIMMUNE CYTOPENIAS (AC): A SINGLE CENTER EXPERIENCE Maurizio Miano, MD, G. Gaslini Research Institute	
3:00pm – 3:30pm	Afternoon Break	Ballroom of Americas Foyer
3:30pm – 5:00pm	Concurrent Workshops Session 1: Telomerase Defects 1.5 AMA PRA Category 1 Credits™ Moderator: John Routes, MD, Medical College of Wisconsin Speakers: Inflammatory, Senescence and Nutritional Signals Regulate Telomerase in T Cells Arne Akbar, PhD, University College London Dyskeratosis Congenita, A Cancer-Prone Syndrome Blanche P. Alter, MD, MPH, National Cancer Institute, Division of Cancer Epidemiology & Genetics, Clinical Genetics Branch Dyskeratosis Congenita, A Disorder of Telomere Maintenance Alison Bertuch, MD, PhD, Baylor College of Medicine Session 2: Cytokines 1.5 AMA PRA Category 1 Credits™ Moderator: Luigi Notarangelo, MD, Boston Children's Hospital, Harvard Medical School Speakers: Interleukin 2 Therapy for Wiskott-Aldrich Syndrome Soma Jyonouchi, MD, Children's Hospital of Philadelphia Dysregulation of the IL-17 Axis in LAD-I; Mechanisms and Potential for Therapeutic Intervention Niki Moutsopoulos, DDS, PhD, National Institute of Dental and Craniofacial Research, NIH Variations on Low-Dose IL-2-Based Therapies Eliane Piaggio, PhD, Inserm	Meeting Room 340
5:00pm – 5:15pm	Late Afternoon Break	Ballroom of Americas Foyer
5:15pm – 6:15pm	The CIS Fahey/Rose Founders Lecture 1 AMA PRA Category 1 Credits™ Moderator: Jordan Orange, MD, PhD, Baylor College of Medicine Speaker: Nature, Nurture, and Infection in the Human Immune System Mark Davis, PhD, Stanford University	Ballroom of Americas D&E
6:15pm – 8:00pm	Improving Health, Empowering Research USIDNET, the IDF ePHR and PI Connect Reception Symposium Charlotte Cunningham-Rundles, MD, PhD, Mt. Sinai Medical Center Marcia Boyle, President & Founder, Immune Deficiency Foundation Christopher Scalchunes, Director of Research, Immune Deficiency Foundation Kathleen Sullivan, MD, PhD, Children's Hospital of Philadelphia	Ballroom of Americas A

SCHEDULE OF EVENTS

SATURDAY, APRIL 11

7:30am – 8:30am	Breakfast	Ballroom of Americas Foyer
8:00am – 9:30am	Concurrent Workshop Sessions Session 1: Innate Lymphoid Cells in Immune Homeostasis 1.5 AMA PRA Category 1 Credits™ <i>Moderator:</i> Elena Hsieh, MD, Stanford University <i>Speakers:</i> 8:00am – 8:30am Innate Immunity and Dementias Marco Colonna, MD, Washington University School of Medicine 8:30am – 9:00am Natural Killer Cell-Mediated Immunological Memory Silke Paust, PhD, Baylor College of Medicine 9:00am – 9:30am Invariant Natural Killer T Cells in Tumor Immunity Leonid Metelista, MD, PhD, Texas Children's Cancer Center Session 2: Transplanting the Infected/Inflamed Patient 1.5 AMA PRA Category 1 Credits™ <i>Moderator:</i> Donald B. Kohn, MD, University of California, Los Angeles <i>Speakers:</i> 8:00am – 8:30am Thrombotic Microangiopathy: A Major Complication of Bone Marrow Transplantation Lisa Filipovich, MD, Cincinnati Children's Hospital Medical Center 8:30am – 9:00am DOCK8 Deficiency: Approach to Translation Alexandra Freeman, MD, NIAID, NIH 9:00am – 9:30am Hematopoietic Stem Cell Transplantation in Patients with Phagocyte Disorders Tayfun Güngör, MD, University of Zurich	Meeting Room 340
9:30am – 10:00am	CIS Business Meeting & Award Presentation	Ballroom of Americas D&E
10:00am – 10:30am	Morning Break & Guided Poster Sessions <i>Moderator:</i> Roshini Sarah Abraham, PhD, Mayo Clinic Group 1 NK CELL PHENOTYPIC VARIABILITY IN THE NORMAL ADULT POPULATION Laura S. Angelo, PhD, Baylor College of Medicine HUMAN ITCH DEFICIENCY COMPROMISES THE FUNCTION OF FOLLICULAR HELPER T CELLS Huie Jing, PhD, NIAID, NIH AUTOSOMAL DOMINANT ECTODERMAL DYSPLASIA AND IMMUNODEFICIENCY IN A MOTHER AND DAUGHTER WITH A SEVERE ECTODERMAL DYSPLASIA AND A MILD IMMUNODEFICIENCY WITH IG DYSREGULATION DUE TO A HETEROZYGOUS NFKBIA MUTATION WITH TERMINATION AT TRP11 Jessie Lee, Royal Prince Alfred Hospital LONGITUDINAL STUDY OF COVID ILD Paul J. Maglione, MD, PhD, Sinai School of Medicine ROLE OF AIRE AND DECTIN RECEPTORS AT THE "FUNGAL SYNAPSE"; A PROPOSED REGULATION OF INNATE IMMUNE RESPONSE TO CANDIDA ALBICANS INFECTION Jose Antonio Tavares de Albuquerque, University of Sao Paulo – Institute of Biomedical Sciences	Ballroom of Americas A-C

SCHEDULE OF EVENTS

SATURDAY, APRIL 11, CONTINUED

Moderator:

Caroline Kuo, MD, *University of California, Los Angeles*

Group 2

CLINICAL CHARACTERISTICS AND GENETIC PROFILES OF SEVERE COMBINED IMMUNODEFICIENCY: A SINGLE CENTER EXPERIENCE IN CHINA

Ying-Ying Jin, MD, *Shanghai Jiao Tong University School of Medicine*

COMPUTATIONAL ANALYSIS IDENTIFIES COMORBIDITY NETWORK CHARACTERIZING INFLAMMATORY BOWEL DISEASE IN COMMON VARIABLE IMMUNE DEFICIENCY

Mei-Sing Ong, PhD, *Boston Children's Hospital*

SUBCUTANEOUS IMMUNOGLOBULIN THERAPY IN PATIENTS WITH CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY

Analia Gisela Seminario, MD, *Ricardo Gutiérrez Children's Hospital*

STAT 1 GAIN-OF-FUNCTION MUTATION IN PATIENT WITH VISCERAL LEISHMANIASIS AND SECONDARY HEMOPHAGOCYTIC LYMPHOHYSTIOTICITIS

Paula Teixeira Lyra Marques, MD, *Instituto de Medicina Integral Prof. Fernando Figueira*

BURKHOLDERIA CEPACIA COMPLEX INFECTION ASSOCIATED WITH DEFECTS IN IL-12 SIGNALING

Christa S. Zerbe, MD, *NIAID, NIH*

10:30am – 12:00pm

Plenary Session: Vaccines!

1.5 AMA PRA Category 1 Credits™

Moderator:

Sergio Rosenzweig, MD, PhD, *NIAID, NIH*

Speakers:

10:30am – 11:00am NTDs, Blue Marble Health, & the Antipoverty Vaccines

Peter Hotez, MD, PhD, *Baylor College of Medicine, (Parasitic Diseases)*

11:00am – 11:30am cAd3 Ebola Vaccine: Development and Phase I Clinical Trial Results

Julie Ledgerwood, DO, *NIAID, NIH*

Oral Abstract:

11:30am – 11:40am VACCINE-STRAIN VARICELLA-ZOSTER VIRUS-INDUCED ILLNESS IN IMMUNODEFICIENT HOSTS RECEIVING IMMUNOSUPPRESSIVE THERAPY

Cullen M. Dutmer, MD, *National Jewish Health, University of Colorado*

11:40am – 12:00pm **Panel Discussion**

12:00pm – 1:30pm

Lunch / Poster Viewing / Exhibit Hall Open

Ballroom of Americas A-C

1:30pm – 3:00pm

Controversial and Challenges Diagnosing PI In the Office

Ballroom of Americas D&E

1.5 AMA PRA Category 1 Credits™

Moderators:

Charlotte Cunningham-Rundles, MD, PhD, *Mt Sinai Medical Center*

Kathleen Sullivan, MD, PhD, *Children's Hospital of Philadelphia*

Panel:

Zuhair Ballas, MD, *University of Iowa*

Maite De La Morena, MD, *University of Texas Southwestern*

Imelda Celine Hanson, MD, *Texas Children's Hospital*

Ralph Shapiro, MD, *Midwest Immunology Clinic*

Troy Torgerson, MD, PhD, *University of Washington*

3:00pm – 3:30pm

Afternoon Break

Ballroom of Americas Foyer

SCHEDULE OF EVENTS

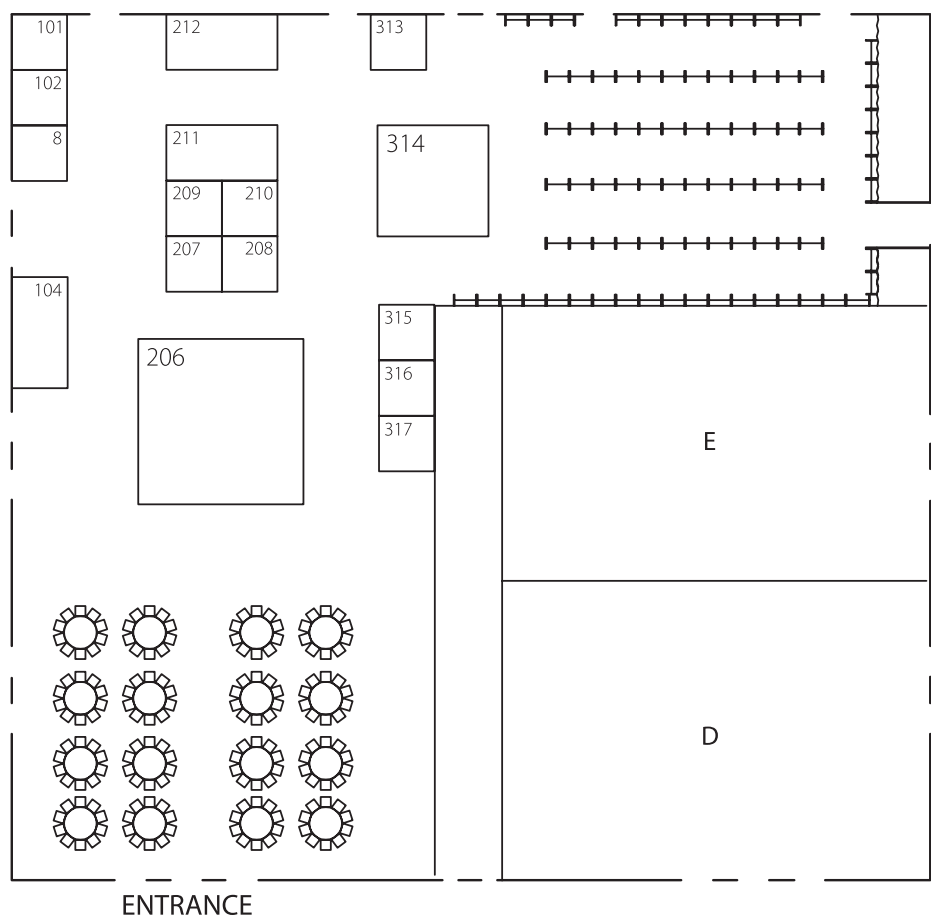
SATURDAY, APRIL 11, CONTINUED

3:30pm – 5:30pm	Plenary Session: Hot New Defects <i>2 AMA PRA Category 1 Credits™</i> Moderator: Thomas Fleisher, MD, NIH Speakers: Genetic Etiology of Life-Threatening Influenza Michael Ciancanelli, PhD, The Rockefeller University Genome Alterations in Human Immune Genetic Disorders: Mechanisms and Treatment Michael Lenardo, MD, National Institute of Allergy and Infectious Diseases, National Institutes of Health Novel Combined Immunodeficiencies Emma Haapaniemi, MD, University of Helsinki Luigi Notarangelo, MD, PhD, Boston Children's Hospital, Harvard Medical School Oral Abstracts: NOVEL IL2R α GENE MUTATIONS IN CD25 DEFICIENCY SYNDROME Eleonora Gambineri, MD, University of Florence NFKB2 MUTATION DISRUPTS CANONICAL AND NON-CANONICAL NF- κ B SIGNALLING IN EARLY-ONSET COMMON VARIABLE IMMUNODEFICIENCY Mohammad A. A. Ibrahim, MD, PhD, King's College London A NEW GENETIC DISORDER PREDISPOSE MENDELIAN SUSCEPTIBILITY TO MYCOBACTERIAL DISEASES Xiao-Fei Kong, MD, PhD, The Rockefeller University	Ballroom of Americas D&E
5:30pm – 5:45pm	Late Afternoon Break	Ballroom of Americas Foyer
5:45pm – 6:30pm	The Story of David the Bubble Boy <i>.75 AMA PRA Category 1 Credit™</i> Moderator: Thomas Fleisher, MD, NIH Speakers: Carol Ann Demaret William T. Shearer, MD, PhD, Baylor College of Medicine, Texas Children's Hospital	Ballroom of Americas D&E
6:30pm – 8:00pm	CIS Closing Reception	Ballroom of Americas A

SUNDAY, APRIL 12

7:00am – 8:00am	Breakfast	Ballroom of Americas Foyer
8:00am – 10:00am	PIDTC Session <i>2 AMA PRA Category 1 Credits™</i> Moderator: Mort Cowan, MD, University of California, San Francisco Speakers: PIDTC 6902: Retrospective Study of Severe Combined Immunodeficiency in North America Mort Cowan, MD, University of California, San Francisco PIDTC 6901: The Modern State of SCID Diagnosis and Treatment Chris Dvorak, MD, University of California, San Francisco PIDTC 6903: Transplantation for Chronic Granulomatous Disease Elizabeth Kang, MD, NIAID, NIH PIDTC 6904 Prospective and Retrospective WAS Study Luigi Notarangelo, MD, PhD, Boston Children's Hospital, Harvard Medical School	Ballroom of Americas D&E

EXHIBIT HALL FLOOR PLAN



EXHIBITOR LISTING

BOOTH #8

KRONUS, Inc.

For nearly 30 years, KRONUS® has provided specialized autoimmune test kits to medical professionals at the world’s most respected laboratory facilities. Please take a few moments to visit our informative exhibit at booth number 8 and learn more about our complete line of specialized immunoassay test kits.

BOOTH #101

Immune Deficiency Foundation

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

BOOTH #102

Healix Infusion Therapy Inc.

As the national leader in physician practice infusion management, Healix® offers convenient and customizable infusion therapy solutions for Allergy and Immunology practices nationwide. Our service offering in over 100 locations includes pharmaceutical dispensing, clinical staffing, inventory and revenue cycle management, and more to enhance your patient care and profitability. To learn more, visit us online at www.healix.net.

BOOTH #104

CSL Behring

CSL Behring is a leader in the plasma protein therapeutics industry. The company manufactures and markets plasma-derived and recombinant therapies worldwide. CSL Behring therapies are used around the world to treat coagulation disorders, primary immune deficiencies, hereditary angioedema and inherited respiratory disease, and neurological disorders in certain markets.

BOOTH #206

Baxter Healthcare

Baxter Healthcare Corporation, along with its subsidiaries, develops, manufactures and markets healthcare products that save and sustain the lives of people with hemophilia, immune disorders, infectious diseases, kidney disease, trauma, and other chronic and acute medical conditions. As a global, diversified healthcare company, Baxter applies a unique combination of expertise in medical devices, pharmaceuticals and biotechnology to create healthcare products that advance patient care worldwide.

Come visit Baxter’s BioTherapeutics booth, where our specialists will be available to answer your questions about Baxter products and our commitment to the fields of immunology and neurology. For more information on Baxter’s products and services, please visit www.baxter.com.

EXHIBITORS

BOOTH #207

Biofusion Inc.

Biofusion is a specialty provider of IgG therapy. Our unique service model includes pharmacy expertise that follows stringent protocols for review and monitoring of nurse/patient adherence to therapy. We possess a national network of infusion nurses specifically trained in IgG administration. Our streamlined care coordination includes reimbursement services and a comprehensive patient advocacy support program tailored to the individualized needs of IgG patients and their caregivers

BOOTH #208

AxelaCare

AxelaCare specializes in IVIG and other infusible medications. We provide medications, treatment management, insurance support, home infusion nursing and advocacy services for patients with rare and chronic diseases. Our mission is to empower people in the pursuit and delivery of exceptional patient care.

BOOTH #209

National Jewish Health

National Jewish Health Advanced Diagnostic Laboratories is a CAP, CLIA and CAP15189SM laboratory with decades of experience developing immunology, complement, infectious disease and molecular diagnostic tests. We provide unparalleled clinical expertise and diagnostic testing in immune deficiency, respiratory disease, allergy and autoimmunity. Through collaborations with our fellow physicians and laboratory scientists, we share our passion for science and develop new therapies and high quality laboratory tests that transform patient lives.

BOOTH #210

GeneDx

GeneDx is highly respected laboratory, specializing in genetic testing for inherited disorders. GeneDx offers sequencing and deletion/duplication testing for inherited cardiac disorders, mitochondrial disorders, neurological disorders, inherited cancer disorders, prenatal disorders and other rare genetic disorders. GeneDx also offers whole exome sequencing, next-generation and microarray-based testing.

BOOTH #211

Baxter Healthcare – Medical Affairs

The BioTherapeutics Medical Affairs booth will be staffed by Baxter Medical Affairs representatives who are able to answer medical and scientific questions about Baxter's immune globulin products. For more information on BioTherapeutics, please visit www.baxter.com

BOOTH #212

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 #313

BioRx

BioRx is a national provider of specialty pharmacy, infusion management and industry consulting services. As a private, independently-owned company, BioRx is committed to a flexible service model that meets the needs of its customers, including consumers, healthcare providers, health plans and pharmaceutical manufacturers.

BOOTH #314

Horizon Pharma

Horizon Pharma plc is a specialty biopharmaceutical company focused on improving patients' lives by identifying, developing, acquiring and commercializing differentiated products that address unmet medical needs. The Company markets a portfolio of products in arthritis, inflammation and orphan diseases. Horizon's U.S. marketed products are ACTIMMUNE® (interferon gamma-1b), DUEXIS® (ibuprofen/famotidine), PENNSAID® (diclofenac sodium topical solution) 2% w/w, RAYOS® (prednisone) delayed-release tablets, and VIMOVO® (naproxen/esomeprazole magnesium).

BOOTH #315

Cincinnati Children's Hospital Medical Center

The Diagnostic Center for Heritable Immunodeficiencies (DCHI) at Cincinnati Children's is the largest and most specialized center in North America for the diagnosis of rare primary immunodeficiencies, bone marrow failure syndromes and other disorders of the immune system. The DCHI has been recognized as a center of excellence by the Federation of Clinical Immunology Societies and the Jeffrey Modell Foundation.

BOOTH #316

Bio Products Laboratory USA, Inc.

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 #317

Medical College of Wisconsin

The Clinical Immunodiagnostic & Research Laboratory (CIRL) at MCW offers diagnostic flow cytometry for Primary Immunodeficiency (PID) diseases. CIRL and CHW's PID Clinics function as Jeffrey Modell Diagnostic & Patient Referral Center in Wisconsin since 2007. IDC is first in USA to pioneer statewide newborn screening for Severe Combined Immunodeficiency.

POSTER LISITING

Poster #	Title	Name	Affiliation
1	ACCURACY OF FLOW CYTOMETRIC PERFORIN SCREENING FOR DETECTION OF PATIENTS WITH FAMILIAL HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS DUE TO PRF1 MUTATIONS	Manar Abdalgani, MD	Cincinnati Children's Medical Center
2	THE NATIONAL INSTITUTE OF HEALTH (NIH) PRIMARY IMMUNE DEFICIENCY CLINIC (PID-C): DESCRIPTION AND 7 YEARS EXPERIENCE	Anahita Agharahimi, CRNP	National Institute of Allergy and Infectious Diseases/NIH
3	FUNNY IMMUNOLOGY TO SAVE LIVES	Juan Carlos Aldave, MD	Hospital Nacional Edgardo Rebagliati Martins
4	A 5 YEAR OLD GIRL WITH RECURRENT AND MULTIPLE INFECTIONS AND IMPERFECT OSTEOGENESIS WITH A RARE MUTATION ONLY ONCE PREVIOUSLY REPORTED IN HUMANS - LCK MISSENSE MUTATION	Guisela Adriana Alva Lozada, MD	Edgardo Rebagliati Martins National Hospital
5	MYELOID CELLS DIFFERENTIATED IN THE PRESENCE OF INTERFERON-GAMMA COMPARED TO MATURE CELLS EXPOSED TO THIS CYTOKINE EXHIBIT DIFFERENT PHOX PROTEIN EXPRESSION AND Nox2 ACTIVITY	Daniel R. Ambruso, MD	University of Colorado Denver
6	NK CELL PHENOTYPIC VARIABILITY IN THE NORMAL ADULT POPULATION	Laura S. Angelo, PhD	Texas Children's Hospital/Baylor College of Medicine
7	DEFECTS IN IFN- γ R α AND IFN- γ R β CAUSE DYSREGULATION IN GENE EXPRESSION OF NADPH OXIDASE SYSTEM COMPONENTS – EBV-B CELL MODEL	Walmir Cutrim Aragão-Filho, PhD, MSc	Department of Immunology ICB-USP, São Paulo, Brazil; Ciped-FCM, UNICAMP, Campinas, Brazil
8	PATIENTS WITH CARTILAGE-HAIR HYPOPLASIA DISPLAY TELOMERE LENGTH DEFICIENCY COMPARED TO RMRP MUTATION HETEROZYGOTES AND NORMAL CONTROLS.	Geraldine Aubert, PhD	BC Cancer Research Centre
9	A COMPARATIVE STUDY BETWEEN LYOTUBES AND LIQUID ANTIBODIES FOR CLINICAL FLOW CYTOMETRY	Pinaki P. Banerjee, PhD	Center for Human Immunobiology, Texas Children's Hospital
10	CHARACTERIZATION OF JUVENILE SLE PATIENTS WITH ACQUIRED ANGIOEDEMA	Diana K. Bayer, DO	University of Iowa Carver College of Medicine
11	DETECTION OF X LINKED CHRONIC GRANULOMATOUS DISEASE CARRIERS THROUGH FUNCTIONAL ASSAYS IN PERIPHERAL BLOOD	Lizbeth Blancas-Galicia, MD	Instituto Nacional de Pediatría
12	NEWBORN SCREENING BEYOND TRECs AND KRECs: REACHING OUT FOR PHAGOCYTIC DEFECTS, COMPLEMENT AND ANTIBODY DEFICIENCIES AND NEXT-GEN SEQUENCING.	Stephan Borte, MD, PhD	ImmunoDeficiencyCenter Leipzig at Hospital St. Georg; Translational Center for Regenerative Medicine, University of Leipzig
13	SAFETY AND TOLERABILITY OF HUMAN IMMUNE GLOBULIN SUBCUTANEOUS, 20% (IGSC 20%): FINAL ANALYSIS OF A PHASE 2/3 STUDY IN PATIENTS WITH PRIMARY IMMUNODEFICIENCIES (PID) IN EUROPE	Michael Borte, MD, PhD	ImmunoDeficiencyCenter Leipzig (IDCL) at Hospital St. Georg
14	PULMONARY HYPERTENSION IN TWO PATIENTS WITH CANDLE SYNDROME	David Buchbinder, MD	CHOC Children's Hospital - UC Irvine
15	NEUTROPHILS FROM CD40L-DEFICIENT PATIENTS PRESENT DEFECTIVE FUNGICIDAL ACTIVITY THAT CAN BE IMPROVED BY RECOMBINANT HUMAN IFN- γ	Otavio Cabral-Marques, MSc, PhD	Institute of biomedical Sciences- University of Sao Paulo
16	CASE REPORT: IMMUNE DYSREGULATION DUE TO A DE NOVO STAT3 MUTATION	Liliana Bezrodnik	Ricardo Gutiérrez Children's Hospital
17	MODULAR TRANSCRIPTIONAL REPERTOIRE AND microRNA-TARGET ANALYSES IN THYMIC TISSUE OF DOWN SYNDROME INFANTS	Magda Carneiro-Sampaio, MD, PhD	University of Sao Paulo Medical School (FMUSP)

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18	ACTIVE SEARCH FOR 22q11.2 DELETION IN INFANTS WITH CONGENITAL HEART DISEASE UNDERGOING CORRECTIVE SURGERY: PRELIMINARY RESULTS	Magda Carneiro-Sampaio, MD, PhD	Instituto da Criança - Universidade de São Paulo
19	A NOVEL IL7R MUTATION IN A T-B+NK+ SCID INFANT	Yenhui Chang, MD, PhD	All Children's Hospital/Johns Hopkins Medicine
20	CLINICAL MANIFESTATIONS, GENE MUTATIONS AND B-CELL SUBSETS CHARACTERIZATION OF AUTOSOMAL DOMINANT-HYPER IgE SYNDROME PATIENTS IN CHINA	Tong-Xin Chen	Division of Immunology, Institute of Pediatric Translational Medicine, Shanghai Jiao Tong University School of Medicine
21	MUTATION OF THE BTK GENE AND GENOTYPE-PHENOTYPE CORRELATION OF CHINESE PATIENTS WITH X-LINKED AGAMMAGLOBULINEMIA	Xia-Fang Chen	Department of Allergy and Immunology, Shanghai Children's Medical Center, Shanghai Jiao Tong University School of Medicine
22	IMMUNOPHENOTYPING AND TRANSCRIPTOME ANALYSIS OF NFKB2 MUTATIONS IN AUTOSOMAL DOMINANT EARLY-ONSET COMMON VARIABLE IMMUNODEFICIENCY	Karin Chen, MD	University of Utah
23	SYSTEMS BIOLOGY APPROACH TO ANALYZE SIGNALING DEFECTS AND IDENTIFY NOVEL IMMUNODEFICIENCIES	Jeff Choi	Stanford University School of Medicine
24	TREATMENT OF SAPHO SYNDROME WITH INFlixIMAB.	Jose Marcos Cunha, MD, PhD	Federal University of Rio de Janeiro
25	AN X-LINKED AUTOIMMUNE/INFLAMMATORY SYNDROME INDUCED BY ADJUVANTS PROGRESSING TO HEMOPHAGOCYTIC SYNDROME.	L a O Cunha, MD	Federal University of Minas Gerais
26	LYMPHOPROLIFERATIVE DISEASE MASQUERADING AS HLH IN CROHN'S DISEASE	Blachy J. Dávila Saldaña, MD	Cincinnati Children's Hospital Medical Center
27	ACTIVATED PI-3-KINASE-C DELTA SYNDROME (APDS) IN A PATIENT WITH CVID AND LYMPHOPROLIFERATIVE DISEASE (LPD)	Blachy J. Dávila Saldaña, MD	Cincinnati Children's Hospital Medical Center
28	PARAINFLUENZA MYOSITIS NECESSITATING IMMUNOSUPPRESSIVE TREATMENT IN A TODDLER WITH IPEX SYNDROME WHO HAD BEEN SUCCESSFULLY TREATED WITH STEM CELL TRANSPLANTATION	Elif Dokmeci, MD	Yale University School of Medicine
29	NATURAL KILLER (NK) CELL DEFICIENCY: RETROSPECTIVE ANALYSIS OF 40 PATIENTS	Svjetlana Dolovcak, MD	University of Iowa Hospitals and Clinics
30	COMPARATIVE ANALYSIS OF THE EPIDEMIOLOGY OF COMMON VARIABLE IMMUNODEFICIENCY (CVID) IN A LARGE TERTIARY CARE CENTER VERSUS THE USIDNET REGISTRY.	Jocelyn Farmer, MD, PhD	Massachusetts General Hospital
31	AUTOIMMUNITY IN COMMON VARIABLE IMMUNODEFICIENCY: A REPORT OF TYPES AND PREVALENCE FROM A UNITED STATES PATIENT REGISTRY.	Elizabeth Feuille, MD	Icahn School of Medicine at Mount Sinai
32	SUPPRESSED EXPRESSION OF CD80 (B7.1) AND CD86 (B7.2) RECEPTORS IN TAMS UP-REGULATED BY Hsp70- PEPTIDE COMPLEX IN DALTON'S LYMPHOMA BEARING BALB/C MICE	Pramod Kumar Gautam	Banaras Hindu Univeristy
33	HIGH-DOSE SUBCUTANEOUS IMMUNOGLOBULIN (SCIG) FOR AUTOIMMUNE COMPLICATIONS OF COMMON VARIABLE IMMUNODEFICIENCY	Bob Geng, MD	UCLA Medical Center
34	YOUTUBE AND CVID: A CRITICAL APPRAISAL OF THE EDUCATIONAL QUALITY OF INFORMATION	Alexei Gonzalez-Estrada, MD	Cleveland Clinic Foundation

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35	PRIMARY IMMUNODEFICIENCY DISEASES IN ECUADOR: TWO YEARS EXPERIENCE FOR A NEW DIAGNOSIS CENTER IN A DEVELOPING COUNTRY.	Nina Denisse Guerrero-Cursaru	Universidad San Francisco de Quito
36	CASE REPORT: SYMPK DEFICIENCY AS A POTENTIAL NEW PID ASSOCIATED WITH RECURRENT RESPIRATORY INFECTIONS, DEVELOPMENTAL DELAY AND FACIAL FEATURES.	Nina Denisse Guerrero-Cursaru	Universidad San Francisco de Quito
37	CYTOMETRY BASED SCREENING FOR GAIN-OF-FUNCTION MUTATION IN SIGNAL TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION 1 (STAT1-GOF)	David Hagin, MD, PhD	University of Washington / Seattle Children's Hospital
38	HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS CAUSED BY XIAP DEFICIENCY IN A FEMALE PATIENT WITH HETEROZYGOUS BIRC4 MUTATION AND SEVERE X CHROMOSOME SKEWING	Kejian Zhang, MD, MBA	Cincinnati Children's Hospital Medical Center
39	ADULT ONSET MYCOBACTERIAL INFECTION DUE TO NON-CODING MUTATIONS IN IKBKG AFFECTING NEMO PROTEIN LEVELS.	Amy P. Hsu, BA	Laboratory of Clinical Infectious Diseases, NIAID/NIH
40	THE SPECTRUM OF ANTIBODY DEFICIENCY ACCORDING TO B CELLS	Tracy A. Hwangpo, MD, PhD	University of Alabama at Birmingham
41	CONVERSION TO OMENN-LIKE SYNDROME FROM PROFOUND T CELL IMMUNODEFICIENCY IN A PATIENT WITH CHD7+ CHARGE SYNDROME	David Jara, MD	Children's Mercy Hospitals and Clinics
42	CLINICAL CHARACTERISTICS AND GENETIC PROFILES OF SEVERE COMBINED IMMUNODEFICIENCY: A SINGLE CENTER EXPERIENCE IN CHINA	Ying-Ying Jin, MD	Department of Allergy and Immunology, Shanghai Children's Medical Center, Shanghai Jiao Tong University School of Medicine
43	HUMAN ITCH DEFICIENCY COMPROMISES THE FUNCTION OF FOLLICULAR HELPER T CELLS	Huie Jing, PhD	National Institute of Allergy and Infectious Diseases, National Institutes of Health
44	CLINICAL, MOLECULAR, AND FUNCTIONAL CHARACTERIZATION OF IL-10 RECEPTOR DEFICIENCY PRESENTING WITH ELEVATED SERUM IL-10 AND INFLAMMATORY BOWEL DISEASE	Artemio M. Jongco, MPH, MD, PhD	Cohen Children's Medical Center of New York
45	SEVERE AGAMMAGLOBINEMIA WITH PROFOUND NEUTROPENIA PRESENTING WITH PSEUDOMONAS BACTEREMIA AND PNEUMONIA WITH BALANCED 5;17 CHROMOSOMAL TRANSLOCATION	Avni Y. Joshi, MD, MSc	Mayo Clinic
46	RECURRENT MYCOBACTERIUM INFECTIONS WITH CD4 LYMPHOPENIA : A MISSED CASE OF NEMO DEFICIENCY	Erinn Samantha Kellner, MD	University of South Florida
47	IS THERE A ROLE FOR ADENO-TONSILLECTOMY IN PANS [PEDIATRIC ACUTE-ONSET NEUROPSYCHIATRIC SYNDROME]?	Roger H. Kobayashi, MD, MS	Division of Pediatric Immunology and Allergy UCLA School of Medicine
48	EVALUATION OF TH17 PROFILE IN COMMON VARIABLE IMMUNODEFICIENCY (CVID) PATIENTS WITH OR WITHOUT AUTOIMMUNITY.	Cristina M. Kokron, MD, PhD	University of São Paulo Medical School
49	TARGETED GENE THERAPY IN THE TREATMENT OF X-LINKED HYPER-IgM SYNDROME	Caroline Y. Kuo, MD	David Geffen School of Medicine at UCLA
50	THE P.Gly219Arg POLYMORPHISM OF THE CD40L GENE RESULTS IN DIFFERENTIAL BINDING OF TWO ANTI-CD40L CLONES	Bruce J. Lanser, MD	National Jewish Health
51	ATYPICAL PRESENTATION OF KABUKI SYNDROME IN 25 YEAR OLD MALE WITH SEVERE IMMUNE ENTEROPATHY, AUTOIMMUNITY, AND HYPOGAMMAGLOBULINEMIA	Monica G. Lawrence, MD	University of Virginia

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52	AUTOSOMAL DOMINANT ECTODERMAL DYSPLASIA AND IMMUNODEFICIENCY IN A MOTHER AND DAUGHTER WITH A SEVERE ECTODERMAL DYSPLASIA AND A MILD IMMUNODEFICIENCY WITH IG DYSREGULATION DUE TO A HETEROZYGOUS NFKBIA MUTATION WITH TERMINATION AT TRP11	Jessie Lee	Royal Prince Alfred Hopsital
53	LINEAR DISCRIMINANT ANALYSIS TO ASSIST THE CLINICAL DIAGNOSIS OF PRIMARY IMMUNODEFICIENCIES	Saul Oswaldo Lugo Reyes, MD, MS	National Institute of Pediatrics
54	HUMORAL IMMUNITY IN CHILDREN WITH RECURRENT INFECTIONS WHO UNDERWENT EAR, NOSE & THROAT SURGICAL PROCEDURES	Saul Oswaldo Lugo Reyes, MD, MS	National Institute of Pediatrics
55	COMMON VARIABLE IMMUNODEFICIENCY AND EARLY-ONSET AUTOIMMUNE MANIFESTATIONS ASSOCIATED WITH COUPLED MUTATIONS IN NFKB2 AND STAT5A GENES	Maria-Elena Maccari, MD	San Raffaele Telethon Institute for Gene Therapy (HSR-TIGET), Division of Regenerative Medicine, Stem Cells, and Gene Therapy, San Raffaele Scientific Institute
56	LONGITUDINAL STUDY OF CVID ILD	Paul J. Maglione, MD, PhD	Icahn School of Medicine at Mount Sinai
57	STAT 1 GAIN-OF-FUNCTION MUTATION IN PATIENT WITH VISCERAL LEISHMANIASIS AND SECONDARY HEMOPHAGOCYTIC LYMPHOHYSTIOTICITIS	Paula Teixeira Lyra Marques, MD	Instituto de Medicina Integral Prof. Fernando Figueira - IMIP
58	STEM CELL TRANSPLANTATION AND LONG-TERM SURVIVAL FOR PRIMARY IMMUNODEFICIENCIES: OUTCOMES AMONG THE DONOR SOURCES AND DIFFERENT DIAGNOSTIC GROUPS.	Caridad Martinez, MD	Baylor College of Medicine, Texas Children's Hospital
59	MANNOSE BINDING LECTIN DEFICIENCY AS AN EARLY MANIFESTATION OF COMMON VARIABLE IMMUNODEFICIENCY IN A PEDIATRIC PATIENT—A CASE STUDY	Lisa M. Martorano, DO	Akron Children's Hospital
60	PERFORIN-2 MUTATIONS IN PULMONARY NONTUBERCULOUS MYCOBACTERIAL INFECTION	Ryan M. McCormack, BS	University of Miami Miller School of Medicine
61	GAMMAPLEX® 5% IN CHILDREN AND ADOLESCENTS WITH PRIMARY IMMUNODEFICIENCY DISEASES	Isaac Melamed, MD	IMMUNOe
62	IgG SCINTIGRAPHY IS HELPFUL TO DIAGNOSE AN ASYMPTOMATIC INFLAMMATORY BOWEL CONDITION IN ANTIBODY DEFICIENCIES AND LOW IgG TROUGH LEVELS DESPITE HIGH DOSES OF IG REPLACEMENT. CINZIA MILITO, VALENTINA MEGNA, FEDERICA PULVIRENTI, MAURO LIBERATORE, ISABELLA Q	Cinzia Milito	Dpt of Molecular medicine
63	RESULTS OF A PHASE III TRIAL IN PATIENTS WITH PIDD USING AN IVIG CONTAINING HIGH TITER NEUTRALIZING ANTIBODY TO RESPIRATORY SYNCYTIAL VIRUS (RSV)	James Mond, MD, PhD	ADMA Biologics
64	NKG2 RECEPTORS EXPRESSION IN NK CELLS OF PATIENTS WITH DISSEMINATED WARTS AND SUSPECTED PRIMARY IMMUNODEFICIENCY DISEASE	Dewton Moraes-Vasconcelos, MD, PhD	Faculdade de Medicina da Universidade de São Paulo
65	EVALUATION OF STAT-1 PHOSPHORYLATION IN PBMC BY FLOW CYTOMETRY IN A COHORT OF CHRONIC MUCOCUTANEOUS CANDIDIASIS (CMC) IN São PAULO, BRAZIL	Dewton Moraes-Vasconcelos, MD, PhD	Faculdade de Medicina da Universidade de São Paulo
66	DEVELOPMENT OF A BIOLOGIC DRESSING FOR THE TREATMENT OF SKIN ULCERS ASSOCIATED TO HLA CLASS I DEFICIENCY	Dewton Moraes-Vasconcelos, MD, PhD	Faculdade de Medicina da Universidade de São Paulo

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67	HISTOPATHOLOGICAL ASPECTS OF ACUTE-FORM PARACOCCIDIOIDOMYCOSIS IN IL-12BR1 DEFICIENT PATIENTS	Dewton Moraes-Vasconcelos, MD, PhD	Faculdade de Medicina da Universidade de São Paulo
68	INDETERMINATE QUANTIFERON-TB ASSAY AS A POSSIBLE CLUE TO ADULT ONSET IMMUNODEFICIENCY: A CASE OF IFN-GAMMA AUTOANTIBODIES WITH NOVEL MHC GENOTYPE	Megan S. Motosue, MD	Mayo Clinic
69	DEVELOPMENT AND VALIDATION OF A FLOW CYTOMETRY-BASED CLINICAL NK CELL SCREENING PANEL	Sarada L. Nandiwada, PhD, D(ABMLI)	Texas Children Hospital, Section of Allergy, Immunology and Rheumatology
70	A RARE PRESENTATION OF CVID AS AN ORBITAL INFLAMMATORY MASS	Ogechukwu Ndum, MD	University Hospitals - Case Medical Center
71	A GAIN-OF-FUNCTION MUTATION OF STAT1 IN A 3-YEAR-OLD CHILD WITH CHRONIC MUCOCUTANEOUS CANDIDIASIS AND AUTOIMMUNE HEPATITIS: A CASE REPORT	João Bosco Oliveira, MD, PhD	Ribeirão Preto Medical School, University of São Paulo
72	COMPUTATIONAL ANALYSIS IDENTIFIES COMORBIDITY NETWORK CHARACTERIZING INFLAMMATORY BOWEL DISEASE IN COMMON VARIABLE IMMUNE DEFICIENCY	Mei-Sing Ong, PhD	Macquarie University
73	FATAL ASEPTIC MENINGITIS DUE TO COXSACKIE B3 VIRUS INFECTION IN A PATIENT WITH ACQUIRED HYPOGAMMAGLOBULINEMIA	Thamiris V. Palacios, DO	University of Virginia Health System Allergy/Immunology Program
74	SMITH MAGENIS SYNDROME: CLINICAL IMMUNOLOGIC FEATURES OF 70 PATIENTS CARRYING A SINGLE TAC1 ALLELE	Tiffany Perkins, MD	Yale New Haven Hospital
75	WHOLE BLOOD FLOW CYTOMETRY FOR THE EVALUATION OF HETEROZYGOUS MUTATIONS OF CTLA4	Sheree Poulton	Royal Children's Hospital
76	RISK ASSESSMENT OF ANTI-rHuPH20 ANTIBODIES IN MULTIPLE RELEVANT SPECIES	Marie Printz	Halozyne Therapeutics, Inc.
77	POLYMERASE EPSILON 1 MUTATION CAUSING COMBINED IMMUNODEFICIENCY	Nikita Raje, MBBS, MD	Children's Mercy Hospital/ University of Missouri-Kansas City
78	HAPLOIDENTICAL STEM CELL TRANSPLANT IN CHRONIC GRANULOMATOUS DISEASE: ONE CASE REPORT.	Nidesha Ramírez-Urbe, MD	Instituto Nacional de Pediatría
79	A SYMPTOMATIC PATIENT WITH HETEROZYGOUS ARTEMIS MUTATION IMMUNODEFICIENCY	Lahari Rampur, MD	Montefiore medical center
80	STAT3 SIGNALING HYPERSENSITIVITY IN A CHILD WITH UNICENTRIC CASTLEMAN'S DISEASE	Charlotte Rivas, BS	UTHealth, Division of Pediatric Research Center
81	SURVEY OF INFECTION CONTROL PRECAUTIONS FOR PATIENTS WITH SEVERE COMBINED IMMUNE DEFICIENCY	Brieanne A. Rogers, BHSc	University of Alberta
82	PREVALENCE OF INFECTION IN PEDIATRIC PATIENTS WITH COMMON VARIABLE IMMUNODEFICIENCY	Lauren A. Sanchez, MD	Children's Hospital of Philadelphia
83	EFFECT OF M.TUBERCULOSIS CELL WALL ASSOCIATED PROTEIN rRv3083 ON TOLL LIKE RECEPTOR EXPRESSION IN HUMAN MACROPHAGES	Iti Saraav	DS Kothari Centre Life Sciences Lab
84	EXOME SEQUENCING UNCOVERS A HETEROZYGOUS STAT4 MUTATION IN A FAMILY WITH SUSCEPTIBILITY TO PARACOCCIDIOIDOMYCOSIS	Lena F. Schimke, MD	Institute of biomedical Sciences- University of Sao Paulo
85	LINKAGE OF HYPOGAMMAGLOBULINEMIA AND CVID TO THE HLA-B LOCUS	Harry W. Schroeder, MD, PhD	University of Alabama at Birmingham

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86	SUBCUTANEOUS IMMUNOGLOBULIN THERAPY IN PATIENTS WITH CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY	Analía Gisela Seminario, MD	Ricardo Gutiérrez Children´s Hospital
87	: CLINICAL FEATURES AND LABORATORY FINDINGS OF DISREGULATORY SYNDROMES IN AN ARGENTINEAN COHORT.	Analía Gisela Seminario, MD	Ricardo Gutiérrez Children´s Hospital
88	AGE, NOT ABSOLUTE CD4 OR CD8 COUNT ASSOCIATED WITH INFECTIONS IN NON-HIV LYMPHOPENIC PATIENTS	Junghee Shin, MD, PhD	Bridgeport Hospital- Yale New Heaven Health
89	DEEP SEQUENCING OF THE IGH LOCUS IN COMMON VARIABLE IMMUNE DEFICIENCY REVEALS GLOBAL ALTERATIONS IN CENTRAL AND PERIPHERAL B CELL DEVELOPMENT	Noa Simchoni	Icahn School of Medicine at Mount Sinai
90	ISOLATED MITOCHONDRIAL MYOPATHY PRESENTING LIKE POLYMYOSITIS	Yogesh Singh, MD, DM	Manipal Hospital
91	PARANEOPLASTIC POLYMYOSITIS ASSOCIATED WITH BREAST CARCINOMA	Yogesh Singh, MD, DM	Manipal Hospital
92	THE ROLE OF CELL-MEDIATED IMMUNITY IN PATIENTS WITH AGAMMAGLOBULINEMIA.	L.P. Szyrakina, MD, PhD	Rostov State Medical University
93	EFFICACY, SAFETY AND TOLERABILITY OF HUMAN IMMUNE GLOBULIN SUBCUTANEOUS, 20% (IGSC 20%): INTERIM ANALYSIS OF A PHASE 2/3 STUDY IN PATIENTS WITH PRIMARY IMMUNODEFICIENCIES (PID) IN NORTH AMERICA	Daniel Suez, MD	Allergy, Asthma, & Immunology Clinic, PA, Irving TX
94	PULMONARY NONTUBERCULOUS MYCOBACTERIAL INFECTION: A MULTISYSTEM MULTIGENIC DISEASE	Eva P. Szymanski, BS	National Institute of Allergy and Infectious Diseases
95	ROLE OF AIRE AND DECTIN RECEPTORS AT THE "FUNGAL SYNAPSE"; A PROPOSED REGULATION OF INNATE IMMUNE RESPONSE TO CANDIDA ALBICANS INFECTION	Jose Antonio Tavares de Albuquerque, PhD	Institute of Biomedical Sciences, University of São Paulo
96	PHENOTYPIC EXPRESSION OF UNRELATED HETEROZYGOTE TACI AND ARTEMIS MUTATIONS	Jennifer Toh, MD	Montefiore Medical Center
97	THE SUCCESSFUL USE OF FANSIDAR IN A 3 YEAR OLD CHILD WITH AUTOIMMUNE LYMPHOPROLIFERATIVE SYNDROME.	Jutte E. van der Werff ten Bosch , MD, PhD	UZ Brussels
98	NEW MUTATION LEADING TO AUTOIMMUNE LYMPHOPROLIFERATIVE SYNDROME	Jutte E. van der Werff ten Bosch, MD, PhD	UZ Brussel
99	DEVELOPMENT AND VALIDATION OF A MOLECULAR SPECTRATYPING ASSAY IN THE CLINICAL IMMUNOLOGY LABORATORY TO MEASURE T CELL RECEPTOR (TCR) REPERTOIRE DIVERSITY	Michelle Van Hee, BS	Mayo Clinic
100	FUNCTION, PHENOTYPE AND STATS PROTEIN ACTIVATION IN CD56dim NK CELLS FROM PATIENTS WITH STAT1 GOF MUTATIONS.	Alexander Vargas-Hernandez	Baylor College of Medicine, Texas children's Hospital
101	ESTIMATED DISEASE INCIDENCE OF RAG1 MUTATION BY QUERYING THE EXOME AGGREGATION CONSORTIUM	Jolan E. Walter, MD, PhD	Boston Children's Hospital
102	LONG TERM SAFETY, EFFICACY AND TOLERABILITY OF RECOMBINANT HUMAN HYALURONIDASE [RHUPH20]-FACILITATED SUBCUTANEOUS (SC) INFUSION OF IMMUNOGLOBULIN G (IGG) (HYQVIA; IGHY) IN PATIENTS AGED ≥16 YEARS WITH PRIMARY IMMUNODEFICIENCIES (PID)	Richard L. Wasserman, MD, PhD	Dallas Allergy Immunology
103	LONG TERM SAFETY, EFFICACY AND TOLERABILITY OF RECOMBINANT HUMAN HYALURONIDASE [RHUPH20]-FACILITATED SUBCUTANEOUS (SC) INFUSION OF IMMUNOGLOBULIN G (IGG) (HYQVIA; IGHY) IN PEDIATRIC PATIENTS AGED <16 YEARS WITH PRIMARY IMMUNODEFICIENCIES (PID)	Richard L. Wasserman, MD, PhD	Dallas Allergy Immunology
104	A NOVEL CD40 LIGAND MUTATION PRESENTING HETEROGENEOUSLY IN A SINGLE FAMILY	Paula J. Whittington, MD, PhD	Yale University School of Medicine

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105	PRELIMINARY DATA FOR mTOR INHIBITOR TREATMENT IN PATIENTS WITH GAIN-OF-FUNCTION MUTATIONS IN PIK3CD	Kelli W. Williams, MD, MPH	NIH/NIAID
106	CHRONIC GRANULOMATOUS DISEASE IN CHINA: NEW STUDY AND A SYSTEMATIC REVIEW	Jing Wu	Department of Allergy and Immunology, Shanghai Children's Medical Center, Shanghai Jiao Tong University School of Medicine
107	NON-INFECTIOUS ENTEROPATHY IN A PATIENT WITH XLA AND A NOVEL SPLICE SITE MUTATION IN THE BTK GENE	Christian A. Wysocki, MD, PhD	UT Southwestern Medical Center
108	INVASIVE ASPERGILLOSIS AND CHRONIC GRANULOMATOUS DISEASE PRESENTING IN EARLY INFANCY	Karl Oliver A. Yu, MD, PhD	C Comer Children's Hospital, University of Chicago
109	INCREASED RISK OF INFECTION DURING IMMUNOGLOBULIN WEAR-OFF PERIOD IN PATIENTS WITH PRIMARY IMMUNODEFICIENCY DISEASE	Arthur S. Zbrozek, RPh, MSc, MBA	CSL Behring, LLC
110	BURKHOLDERIA CEPACIA COMPLEX INFECTION ASSOCIATED WITH DEFECTS IN IL-12 SIGNALING	Christa S. Zerbe, MD	NIAID/NIH
111	TREATMENT OF CHRONIC GRANULOMATOUS DISEASE ASSOCIATED COLITIS WITH ANAKINRA	Christa S. Zerbe, MD	NIAID/NIH
112	RUXOLITINIB EFFECTS ON STAT1 GAIN OF FUNCTION MUTATIONS	Ofer Zimmerman, MD	NIH, NIAID, LCID

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- Abstract of the case or research project. CIS is looking for a case report including those which can be presented as a mystery for discussion purposes but should have a final diagnosis. Alternatively, cases with diagnostic dilemmas which could be discussed are acceptable. In addition, completed research projects germane to the field of primary immune deficiency are also acceptable

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