2015 ANNUAL MEETING PROGRAM COMMITTEE
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Helsinki University Central Hospital
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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, MD
University of California, Los Angeles
2015 Program Committee Co-Chair

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.

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

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.
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

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

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 to 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
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

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.

Roshini Sarah Abraham, PhD
MAYO CLINIC
There are no relationships to disclose.

Arne Akbar, PhD
UNIVERSITY COLLEGE LONDON
GSK — Consultant receiving Consultant fee
Ono Pharmaceuticals Ltd — Consultant receiving Consultant fee

Blanche P. Alter, MD, MPH
NATIONAL CANCER INSTITUTE
There are no relationships to disclose.

Zuhair K. Ballas, MD
UNIVERSITY OF IOWA HEALTH CARE
There are no relationships to disclose.

Alison Bertuch, MD, PhD
BAYLOR COLLEGE OF MEDICINE
There are no relationships to disclose.

David Buchbinder, MD, MS
CHILDREN’S HOSPITAL OF ORANGE COUNTY
There are no relationships to disclose.

Jean-Laurent Casanova, MD, PhD
THE ROCKEFELLER UNIVERSITY
Biogen Idec — Principal investigator receiving Grant
Genentech — Consultant receiving Consultant fee
Merck — Principal investigator receiving Grant
Novartis — Consultant receiving Consultant fee
Pfizer — Consultant receiving Consultant fee
Sanofi — Consultant receiving Consultant fee

Alice Y. Chan, MD, PhD
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
There are no relationships to disclose.

Michael Ciancanelli, PhD
THE ROCKEFELLER UNIVERSITY
There are no relationships to disclose.

Marco Colonna, MD
WASHINGTON UNIVERSITY
There are no relationships to disclose.

Megan A. Cooper, MD, PhD
WASHINGTON UNIVERSITY SCHOOL OF MEDICINE
There are no relationships to disclose.

Morton J. Cowan, MD
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Bluebird Bio — Member on Data Safety Monitoring board receiving Consultant fee
Exogen Bio, Inc. — Member on scientific advisory board receiving Stock option.

Charlotte Cunningham-Rundles, MD, PhD
MT. SINIAL MEDICAL CENTER
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

Mark Davis, PhD
STANFORD UNIVERSITY
There are no relationships to disclose.

Maite De La Morena, MD
UNIVERSITY OF TEXAS SOUTHWESTERN
Atlantic Research Group — Member on KB052 Data Safety Monitory Board receiving Consultant fee

Carol Ann Demaret
There are no relationships to disclose.

Cullen Dutmer, MD
NATIONAL JEWISH HEALTH, UNIVERSITY OF COLORADO
There are no relationships to disclose.

Christopher Dvorak, MD
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
Jazz Pharmaceuticals — Membership on advisory committee receiving Honoraria

Lisa Filipovich, MD
CINCINNATI CHILDREN’S HOSPITAL
There are no relationships to disclose.

Thomas A. Fleisher, MD
NIH CLINICAL CENTER
Association of Medical Laboratory Immunologists — Speaker receiving Honorarium
Elsevier — Co-editor of Clinical Immunology: Principles and Practice receiving Book royalty

Alexandra Freeman, MD
NIAID, NIH
There are no relationships to disclose.

Eleonora Gambineri, MD
UNIVERSITY OF FLORENCE
There are no relationships to disclose.

Raphaella Goldbach-Mansky, MD
NIAMS, NIH
There are no relationships to disclose.

Tayfun Güngör, MD
CHILDREN’S HOSPITAL ZURICH
There are no relationships to disclose.

Emma Haapaniemi, MD
UNIVERSITY OF HELSINKI
Octapharma Immunotherapy — Speaking and Teaching receiving Speaker fee

Imelda Celine Hanson, MD
BAYLOR COLLEGE OF MEDICINE
There are no relationships to disclose.

Helen Heslop, MD
BAYLOR COLLEGE OF MEDICINE
Celgene — Collaborator in research grant receiving Research support
Cell Medica — Licensing agreement
Viracyte — Founder with ownership interest

Steven M. Holland, MD
NIAID, NIH
There are no relationships to disclose.

Peter Hotez, MD, PhD
BAYLOR COLLEGE OF MEDICINE
There are no relationships to disclose.

Elena Hsieh, MD
STANFORD UNIVERSITY
Fluidigm — Speaking and Teaching receiving Speaker fee

Katharine Hsu, MD, PhD
MEMORIAL SLOAN-KETTERING CANCER CENTER
There are no relationships to disclose.
DISCLOSURES OF CONFLICT OF INTEREST

Sun Hur, PhD
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Mohamma A. A. Ibrahim, MD
KING’S COLLEGE LONDON
Baxter – Member on advisory committee receiving
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Biotest – Member on advisory committee receiving
Honoraria
Viapath – Consultant receiving Honoraria

Michael B. Jordan, MD
CINCINNATI CHILDREN’S HOSPITAL MEDICAL CENTER
There are no relationships to disclose.

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CHILDREN’S HOSPITAL OF PHILADELPHIA
There are no relationships to disclose.

Elizabeth Kang, MD
NIAID, NIH
There are no relationships to disclose.

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There are no relationships to disclose.

Xiao-Fei Kong, MD, PhD
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There are no relationships to disclose.

Caroline Kuo, MD
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There are no relationships to disclose.

Julie Ledgerwood, DO
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There are no relationships to disclose.

Michael Lenardo, MD
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There are no relationships to disclose.

Rebecca Marsh, MD
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There are no relationships to disclose.

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TEXAS CHILDREN’S CANCER CENTER
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Maurizio Miano, MD
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There are no relationships to disclose.

Niki Moutsopoulos, MD
NATIONAL INSTITUTE OF DENTAL AND CRANIOFACIAL
RESEARCH, NIH
There are no relationships to disclose.

Luigi D. Notarangelo, MD
BOSTON CHILDREN’S HOSPITAL, HARVARD MEDICAL
SCHOOL
There are no relationships to disclose.

Jordan S. Orange, MD, PhD
BAYLOR COLLEGE OF MEDICINE
ADMA Biologics – Consultant receiving Consultant fee
ASD Healthcare – Consultant receiving Consultant fee
Baxter Healthcare – Consultant receiving Consultant fee; Speaker receiving Speaker fee
CSL Behring – Consultant receiving Consultant fee; Speaker receiving Speaker fee; Investigator receiving Research grant
Walgreens – Consultant receiving Consultant fee

M. Virginia Pascual, MD
BAYLOR INSTITUTE FOR IMMUNOLOGY RESEARCH
Neovacs – Consultant receiving Consultant fee
Novartis – Inventor receiving IP rights

Silke Paust, PhD
TEXAS CHILDREN’S HOSPITAL
There are no relationships to disclose.

Elaine Piaggio, PhD
INSERM
There are no relationships to disclose.

Isabella Quinti, MD, PhD
SAPIENZA UNIVERSITY OF ROME
Baxter – Member on advisory committee receiving Consulting fee

Antoni Ribas, MD
UNIVERSITY OF CALIFORNIA, LOS ANGELES
Amgen – Consulting receiving Consultant fee
Genentech – Consulting receiving Consultant fee
GSK – Consulting receiving Consultant fee
Merck – Consulting receiving Consultant fee
Kite Pharma – SAB Membership receiving Stock holder
Compugen – SAB Membership receiving Stock holder

Sergio D. Rosenzweig, MD, PhD
NIAID, NIH
There are no relationships to disclose.

John M. Routes, MD
MEDICAL COLLEGE OF WISCONSIN
There are no relationships to disclose.

Mikko Seppänen, MD, PhD
HELSINKI UNIVERSITY CENTRAL HOSPITAL
Baxter, Finland – Consulting receiving Consultant fee
Meridian HealthComms, UK – Speaking and teaching receiving Speaker Fee
Octaphama, Finland – Speaking and teaching receiving Chair & Organizer fee

Ralph Shapiro, MD
MIDWEST IMMUNOLOGY CLINIC
Baxter – Principal investigator receiving Investigator fee
Biocrys – Principal investigator receiving Investigator fee
Shire – Speaker receiving Honoraria

William T. Shearer, MD, PhD, FAAAAI
BAYLOR COLLEGE OF MEDICINE
There are no relationships to disclose.

Kathleen Sullivan, MD, PhD
CHILDREN’S HOSPITAL OF PHILADELPHIA
Baxter – Primary investigator receiving Grant
Immune Deficiency Foundation – Primary investigator receiving Grant; Consulting immunologist receiving Consultant fee

Troy R. Torgerson, MD, PhD
UNIVERSITY OF WASHINGTON
aTyr Pharma – Consultant
Baxter – Consultant, Speaking, and a Member on Advisory Committee receiving Research grant
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 & 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.

**III 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

<table>
<thead>
<tr>
<th>Time</th>
<th>Ballroom of the Americas Foyer</th>
<th>Ballroom of the Americas A-C</th>
<th>Ballroom of the Americas D&amp;E</th>
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<td>7:30 am - 8:00 am</td>
<td>Guided Poster Session</td>
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<td>Cancer Immunotherapy</td>
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<td>Tales from the Listserv</td>
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<td>3:30 pm - 5:00 pm</td>
<td>Cytokines</td>
<td>Telomerase Defects</td>
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### Schedule at a Glance

<table>
<thead>
<tr>
<th>Time</th>
<th>Ballroom of the Americas Foyer</th>
<th>Ballroom of the Americas A-C</th>
<th>Ballroom of the Americas D&amp;E</th>
<th>Ballroom of the Americas A</th>
<th>Meeting Room 340</th>
<th>Meeting Room 344</th>
<th>Meeting Room 346</th>
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<tr>
<td><strong>Friday, April 12, continued</strong></td>
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<td>6:15pm - 8:00pm</td>
<td>The CIS Fahey/Rose Founders Lecture</td>
<td>Improving Health, Empowering Research USIDNET, the IDF ePHR and PI Connect Research Symposium</td>
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<td>Speaker Ready Room</td>
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<td>8:00am - 9:30am</td>
<td>Transplanting the Infected / Inflamed Patient</td>
<td>Innate Lymphoid Cells in Immune Homeostasis</td>
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<td>Vaccines!</td>
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<td>Controversial and Challenges Diagnosing PI in the Office</td>
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<td>3:30pm - 5:30pm</td>
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<td>5:45pm - 6:30pm</td>
<td>Special Guest Appearance</td>
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<td>6:30pm - 8:00pm</td>
<td>CIS Closing Reception</td>
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# Schedule of Events

## Thursday, April 9

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>5:30pm – 6:30pm</td>
<td>Welcome Reception</td>
<td>Ballroom of the Americas A-C</td>
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</table>
| 6:30pm – 7:15pm | Welcome from CIS President    
Donald B. Kohn, MD, University of California, Los Angeles | Ballroom of the Americas D&E    |
|               | Robert A. Good Lecture  
.T5 AMA PRA Category 1 Credit™  
Toward a Genetic Theory of Childhood Infectious Diseases  
Jean-Laurent Casanova, MD, PhD, The Rockefeller University |                                 |
| 7:30pm – 9:00pm | The Scientific Approach to the Patient Experience in Primary Immunodeficiency  
Dinner Symposia  
Supported by an educational grant from Baxter.  
1.5 AMA PRA Category 1 Credits™  
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  
Isabella Quinti, MD, PhD, Sapienza University of Rome | Ballroom of the Americas A |

## Friday, April 10

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tr>
<td>7:00am – 8:00am</td>
<td>Breakfast</td>
<td>Ballroom of the Americas Foyer</td>
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<tr>
<td>7:30am – 8:00am</td>
<td>Guided Poster Session</td>
<td>Ballroom of the Americas A-C</td>
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**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 LYMPHOMAISICI TOSIS 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
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:  
8:00am – 8:30am Immunotherapy with Antigen Specific T Cells  
Helen Heslop, MD, Baylor College of Medicine  
8:30am – 9:00am Natural Killer Cell Effects Against Cancer  
Katharine C. Hsu, MD, PhD, Memorial Sloan Kettering Cancer Center  
9:00am – 9:30am 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  
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  
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  
Raphaela Goldbach-Mansky, MD, NIAMS, NIH
**SCHEDULE OF EVENTS**

**FRIDAY, APRIL 10, CONTINUED**

**Oral Abstracts:**

2:30pm – 2:40pm **SEVERE AUTOIMMUNE SYNDROME MEDIATED BY NOVEL MUTATIONS OF ZAP70**  
Alice Y. Chan, MD, PhD, University of California, San Francisco

2:40pm – 2:50pm **MYCOPHENOLATE 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  
Meeting Room 340

3:30pm – 4:00pm **Inflammatory, Senescence and Nutritional Signals Regulate Telomerase in T Cells**  
Arne Akbar, PhD, University College London

4:00pm – 4:30pm **Dyskeratosis Congenita, A Cancer-Prone Syndrome**  
Blanche P. Alter, MD, MPH, National Cancer Institute, Division of Cancer Epidemiology & Genetics, Clinical Genetics Branch

4:30pm – 5:00pm **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  
Ballroom of Americas D&E

3:30pm – 4:00pm **Interleukin 2 Therapy for Wiskott-Aldrich Syndrome**  
Soma Jyonouchi, MD, Children’s Hospital of Philadelphia

4:00pm – 4:30pm **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

4:30pm – 5:00pm **Variations on Low-Dose IL-2-Based Therapies**  
Eliane Piaggio, PhD, Inserm

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:**  
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
SATURDAY, APRIL 11

7:30am – 8:30am  Breakfast  Ballroom of Americas Foyer
8:00am – 9:30am  Concurrent Workshop Sessions  Meeting Room 340

Session 1: Innate Lymphoid Cells in Immune Homeostasis
1.5 AMA PRA Category 1 Credits™
Moderator: Elena Hsieh, MD, Stanford University
Speakers:

8:00am – 8:30am  Innate Immunity and Dementias  Ballroom of Americas D&E
Marco Colonna, MD, Washington University School of Medicine

8:30am – 9:00am  Natural Killer Cell-Mediated Immunological Memory  Ballroom of Americas D&E
Silke Paust, PhD, Baylor College of Medicine

9:00am – 9:30am  Invariant Natural Killer T Cells in Tumor Immunity  Ballroom of Americas D&E
Leonid Metelista, MD, PhD, Texas Children’s Cancer Center

Session 2: Transplanting the Infected/Inflamed Patient
1.5 AMA PRA Category 1 Credits™
Moderator: Donald B. Kohn, MD, University of California, Los Angeles

8:00am – 8:30am  Thrombotic Microangiopathy: A Major Complication of Bone Marrow Transplantation  Ballroom of Americas D&E
Lisa Filipovich, MD, Cincinnati Children’s Hospital Medical Center

8:30am – 9:00am  DOCK8 Deficiency: Approach to Translation  Ballroom of Americas D&E
Alexandra Freeman, MD, NIAID, NIH

9:00am – 9:30am  Hematopoietic Stem Cell Transplantation in Patients with Phagocyte Disorders  Ballroom of Americas D&E
Tayfun Güngör, MD, University of Zurich

9:30am – 10:00am  CIS Business Meeting & Award Presentation  Ballroom of Americas D&E

10:00am – 10:30am  Morning Break & Guided Poster Sessions  Ballroom of Americas A-C
Moderator: Roshini Sarah Abraham, PhD, Mayo Clinic

Group 1

NK CELL PHENOTYPIC VARIABILITY IN THE NORMAL ADULT POPULATION  Ballroom of Americas A-C
Laura S. Angelo, PhD, Baylor College of Medicine

HUMAN ITCH DEFICIENCY COMPROMISES THE FUNCTION OF FOLLICULAR HELPER T CELLS  Ballroom of Americas A-C
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  Ballroom of Americas A-C
Jessie Lee, Royal Prince Alfred Hospital

LONGITUDINAL STUDY OF CVID ILD  Ballroom of Americas A-C
Paul J. Magliione, MD, PhD, Sinai School of Medicine

ROLE OF AIRE AND DECTIN RECEPTORS AT THE “FUNGAL SYNPASE”; A PROPOSED REGULATION OF INNATE IMMUNE RESPONSE TO CANDIDA ALBICANS INFECTION  Ballroom of Americas A-C
Jose Antonio Tavares de Albuquerque, University of Sao Paulo – Institute of Biomedical Sciences
Moderator:
Caroline Kuo, MD, University of California, Los Angeles

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
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
SCHEDULE OF EVENTS

SATURDAY, APRIL 11, CONTINUED

3:30pm – 5:30pm  Plenary Session: Hot New Defects  Ballroom of Americas D&E
  2 AMA PRA Category 1 Credits™
  Moderator:
  Thomas Fleisher, MD, NIH
  Speakers:
  3:30pm – 4:00pm  Genetic Etiology of Life-Threatening Influenza
  Michael Ciancanelli, PhD, The Rockefeller University
  4:00pm – 4:30pm  Genome Alterations in Human Immune Genetic Disorders: Mechanisms and Treatment
  Michael Lenardo, MD, National Institute of Allergy and Infectious Diseases, National Institutes of Health
  4:30pm – 5:00pm  Novel Combined Immunodeficiencies
  Emma Haapaniemi, MD, University of Helsinki
  Luigi Notarangelo, MD, PhD, Boston Children’s Hospital, Harvard Medical School
  Oral Abstracts:
  5:00pm – 5:10pm  NOVEL IL2Rα GENE MUTATIONS IN CD25 DEFICIENCY SYNDROME
  Eleonora Gambineri, MD, University of Florence
  5:10pm – 5:20pm  NFKB2 MUTATION DISRUPTS CANONICAL AND NON-CANONICAL NF-κB SIGNALLING IN EARLY-ONSET COMMON VARIABLE IMMUNODEFICIENCY
  Mohammad A. A. Ibrahim, MD, PhD, King’s College London
  5:20pm – 5:30pm  A NEW GENETIC DISORDER PREDISPOSE MENDELIAN SUSCEPTIBILITY TO MYCOBACTERIAL DISEASES
  Xiao-Fei Kong, MD, PhD, The Rockefeller University
  5:30pm – 5:45pm  Late Afternoon Break  Ballroom of Americas Foyer
  5:45pm – 6:30pm  The Story of David the Bubble Boy
  75 AMA PRA Category 1 Credit™
  Moderator:
  Thomas Fleisher, MD, NIH
  Speakers:
  Carol Ann Demaret
  William T. Shearer, MD, PhD, Baylor College of Medicine, Texas Children’s Hospital
  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
   2 AMA PRA Category 1 Credits™
   Moderator:
   Mort Cowan, MD, University of California, San Francisco
   Speakers:
   8:00am – 8:30am  PIDTC 6902: Retrospective Study of Severe Combined Immunodeficiency in North America
   Mort Cowan, MD, University of California, San Francisco
   8:30am – 9:00am  PIDTC 6901: The Modern State of SCID Diagnosis and Treatment
   Chris Dvorak, MD, University of California, San Francisco
   9:00am – 9:30am  PIDTC 6903: Transplantation for Chronic Granulomatous Disease
   Elizabeth Kang, MD, NIAID, NIH
   9:30am – 10:00am  PIDTC 6904 Prospective and Retrospective WAS Study
   Luigi Notarangelo, MD, PhD, Boston Children’s Hospital, Harvard Medical School
**EXHIBIT HALL FLOOR PLAN**

**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.
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- Letter from the Training Program Director or Department Chair;
- Curriculum Vitae;
- Statement of how the School will be beneficial;
- 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.

Accepted abstracts will be provided with travel grants to assist with airfare, hotel, and meal expenses. The language of the School will be in English and selected participants are required to become CIS members at the conclusion of the School.

Target Audience:

- Fellows-in-training;
- Junior faculty members.

Participants should be pediatricians, internists, or scientists committed to the clinical management of patients with primary immunodeficiency diseases. Candidates may have backgrounds in immunology, infectious diseases, adult medicine, rheumatology, hematology, laboratory immunology, stem cell transplantation, or allergy/immunology.

Objectives:

- Education on the diagnosis, pathogenesis, and treatment of PIDD;
- Attract and develop future scientists in academic medicine;
- Enhance awareness of clinical immunology and its importance in scientific discoveries and clinical applications;
- Stimulate future collaborations between young investigators in different medical centers and countries, and between young investigators and experienced physician/scientists in the field.

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