



**Pediatric
Infectious
Diseases
Society**

**April 30 - May 3, 2011
Colorado Convention Center
Denver, CO**

Saturday, April 30

8:00am–10:00am

Original Science Abstract Session

- Infectious Disease: Epidemiology
- Neonatal Infectious Diseases / Immunology

10:30am–12:30pm

Invited Science Sessions

- Elucidating Host Susceptibility to Infection
- Neglected Tropical Diseases

1:15pm–2:45pm

Poster Session I & Opening Reception

2:45pm–4:45pm

Invited Science Sessions

- Developmental Innate and Adaptive Immunity: Implications for NEC, SIP, and Sepsis
- Global Health

5:00pm–6:30pm

PAS/ASPR Opening General Session

**Exhibits Open
1:00pm - 4:00pm**

Sunday, May 1

7:00am–8:00am

Meet the Professor Breakfast Session

- Finding a Niche and Pursuing Your Passions in Pediatric Infectious Diseases-Paul Krogstad

8:00am–10:00am

Invited Science Sessions

- Microbial Flora / Microbiome
- Role of Endoplasmic Reticulum “Stress” and Protein Misfolding in Inflammatory Disease States

10:15am–11:45am

APS Presidential Plenary and Awards

12:00pm –1:00pm

Neonatal Sepsis Club

- Herpes Simplex Virus: Treatment for Six Weeks or Six Months. Update on Prenatal, Intrapartum and Neonatal Management

12:30pm–4:00pm

AAP Presidential Plenary and Silverman Lecture

1:00pm–3:00pm

Invited Science Session

- Emerging Zoonotic-Human Viruses: Are They Really New?

3:30pm–5:30pm

Original Science Abstract Session

- Neonatal Infectious Diseases / Immunology: Clinical

5:45pm–7:30pm

Poster Session II

**Exhibits Open
4:15pm - 7:30pm**

Monday, May 2

7:00am–8:00am

Public Policy Council Legislative Breakfast

- Health Reform and New Delivery System Models, What do Emerging Accountable Care Organizations (ACOs) Mean for Pediatrics?

8:00am–10:00am

Invited Science Session

- New Frontiers in the Treatment of Infections in Children

10:15am–12:15pm

SPR Presidential Plenary and Awards

12:15pm–1:15pm

PIDS Blue Ribbon Research Session

1:00pm–3:00pm

March of Dimes Prize in Developmental Biology Lectures

1:45pm–3:45pm

Invited Science Session

- Emerging Pediatric Pathogens: A Symposium of Experience and Perspective Across Cultures and Continents

3:30pm–5:30pm

Invited Science Session

- Effects of Chronic Inflammation on Growth and Development, Skeletal Health, and Body Composition

3:30pm–5:30pm

Original Science Abstract Session

- Infectious Disease: Virology

4:00pm–5:00pm

PIDS 8th Annual Stanley A. Plotkin Lectureship in Vaccinology

5:00pm–6:00pm

PIDS Business Meeting

6:15pm

PIDS Annual Awards Program and Reception

Tuesday, May 3

8:00am–10:00am

ASPR Symposium

Recent Advances in Clinical Virology in Asia

8:00am–10:00am

Original Science Abstract Session

Infectious disease Pathogenesis

2:00pm–4:00pm

ASPR Symposium

- Viral Hepatitis – Update in 2011

**Exhibits Open
4:15pm - 7:30pm**

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**Pediatric
Infectious
Diseases
Society**

The Pediatric Infectious Diseases Society (PIDS) is organized exclusively for scientific and educational purposes and not for profit. Its purpose is to enhance the health of infants, children and adolescents by promoting excellence in diagnosis, management and prevention of infectious diseases through clinical care, education, research and advocacy.

Join us in Denver, where the Pediatric Infectious Diseases Society (PIDS) and the Pediatric Academic Societies (PAS) will once again host tightly aligned programs. PIDS symposia, joint symposia and original science will all be held at the Colorado Convention Center. Contact Christy Phillips at the PIDS Office for information regarding the PIDS Annual Awards Program and Reception on Monday evening, May 2nd.

Registration Information

There will be a single registration fee for the meeting set at the PAS registration fee schedule. This registration fee allows the participant to attend all PIDS and PAS functions..

Continuing Education

Continuing Education is through the PAS. See page 3 for complete information.

Saturday, April 30

8:00am–10:00am

1165 Infectious Disease: Epidemiology
Platform Session~Korbel 4F

Chairs: Yvonne A. Maldonado and Andrea Shane

Refer to PAS Daily Programming for complete details.

8:00am–10:00am

1175 Neonatal Infectious Diseases / Immunology
Platform Session~Korbel 3C

Chairs: B. Keith English and Paul Krogstad

Refer to PAS Daily Programming for complete details.

10:30am–12:30pm

1315 Elucidating Host Susceptibility to Infection
PAS Topic Symposium~Korbel 2A/3A

Target Audience: Appeal should be broad to faculty involved in infectious disease, NICU, PICU, ED and translational investigators in host-pathogen interactions and genetics.

Objectives:

- To understand the variable biological mechanisms that underly the predisposition of an individual to acquire a more severe sequelae to infection
- Mechanisms that will be discussed at the individual host level include various genetic as well as epigenetic influences on the host's ability to fight infection based on their influence on immune responses
- Attendees will also be introduced to the novel ecologic-biologic concept called "community diversity" and how this influences disease transmission within the community
- It is hoped the attendees will acquire a better understanding of potential targets for personalized medicine as it relates to identifying a child's risk of developing and/or succumbing to an infection

Chairs: Derek S. Wheeler, Cincinnati Children's Hospital Medical Center, Cincinnati, OH and James Wynn, Duke University Medical Center, Durham, NC

This symposium will focus on advances in our understanding of how underlying genetics, developmental epigenetic factors and even community ecological factors influence the susceptibility of the human host to infections. Speakers will aim to elucidate those mechanisms explaining why one child is more susceptible to a given infection than another.

10:30 Underlying Genetic Risk Factors for the Development of Community Acquired Pneumonia and Progression to ARDS

Michael William Quasney, Medical College of Wisconsin, Milwaukee, WI

11:00 Molecular Explanation for the Pathophysiology of Hyper-IgE Syndrome and Susceptibility to Recurrent Infections

Yoshiyuki Minegishi, Tokyo Medical and Dental University Hospital, Tokyo, Japan

11:30 Epigenetic Regulation of the Host Immune Response: Influence on Susceptibility to Infection

Thomas P. Shanley, C.S. Mott Children's Hospital, University of Michigan School of Medicine, Ann Arbor, MI

12:00 Nutrition, Bacterial Colonization and Clinical Diseases

Allan Walker, Massachusetts General Hospital, Charleston, MA

Jointly sponsored by the Asian Society for Pediatric Research, Pediatric Infectious Diseases Society and the Pediatric Academic Societies

10:30am–12:30pm

1330 Neglected Tropical Diseases
PAS Topic Symposium~Korbel 3C

Target Audience: All pediatricians and researchers interested in infectious diseases and global child health.

Objective:

- To bring to the attention of clinicians, researchers, and trainees the plight of children in developing countries who suffer from one of the many "neglected" tropical diseases

Chairs: Jennifer S. Read, National Institutes of Health, Bethesda, MD and Chandy C. John, University of Minnesota, Minneapolis, MN

Millions of children are affected by these neglected tropical diseases. For many of these diseases there is treatment and means of eradication. World wide travel demands knowledge of these diseases which affect, kill and handicap entire populations. Physicians in training now are involved in programs in developing countries. Knowledge of the 'neglected tropical diseases' is therefore paramount.

10:30 Innovation in the Control of Neglected Tropical Diseases

Peter J. Hotez, The George Washington University, Washington, DC

11:00 Schistosomiasis: Progress and Roadblocks in Eliminating a Major Cause of Childhood Morbidity

Jennifer Frances Friedman, Hasbro Children's Hospital, Providence, RI

11:30 Epidemiology, Diagnosis and the Challenges of Controlling Chagas Disease

Mario Grijalva, Ohio University, Athens, OH

12:00 Arthropod-Borne Viruses: Emerging and Re-emerging Threats for All Countries

Angelle D. LaBeaud, Children's Hospital Oakland Research Institute, Oakland, CA

Jointly sponsored by the Pediatric Infectious Diseases Society, the Programme for Global Paediatric Research and the Pediatric Academic Societies

1:00pm–4:00pm

Commercial Exhibits Open and Posters Available for Viewing

Exhibit Hall A/F

Author Attendance and Opening Reception: 1:15pm–2:45pm

1:15pm–2:45pm

Poster Session I and Opening Reception

Exhibit Hall F

2:45pm–4:45pm

1600 Developmental Innate and Adaptive Immunity: Implications for NEC, SIP, and Sepsis

PAS Topic Symposium~Korbel 4E

Target Audience: Scientists and clinicians (gastroenterologists, infectious disease specialists, immunologists, neonatologists, and pediatric surgeons) who study or treat diseases caused by premature gut immunodeficiency such as necrotizing enterocolitis, intestinal perforation, or sepsis.

Objectives:

- To understand how breaching the immature intestinal barrier can cause intestinal and systemic disease
- To understand how deficient innate and adaptive immunity in the immature gut may predispose premature infants to intestinal injury
- To understand potential ways to improve intestinal immune defenses to prevent NEC, SIP, or sepsis in the premature infant

Chairs: Patricia L.W. Lin, Emory University, Atlanta, GA and Camilia Rivera Martin, Beth Israel Deaconess Medical Center, Boston, MA

An inappropriate inflammatory response by the premature infant has been long recognized as a critical step in the pathogenesis of necrotizing enterocolitis (NEC). Thus, clinical and basic research has increasingly focused on understanding the developmental immunodeficiency of the premature gut. Immaturity of the intestinal barrier is the first innate defense mechanism of the premature gut and predisposes neonates to many intestinal and systemic diseases such as NEC, spontaneous intestinal perforations (SIP), and sepsis. Most recently, initial investigations have begun to elucidate the basic deficiencies of the adaptive immune system that may predispose neonates to intestinal disease. An understanding of both innate and adaptive immunodeficiencies that increase susceptibility of premature infants to intestinal and systemic disease are crucial to developing clinical interventions that may prevent these diseases in neonatal intensive care units. This symposium will update the audience on the many important scientific advances in this rapidly expanding field.

2:50 Introduction and Overview

Patricia L.W. Lin, Emory University, Atlanta, GA

2:50 Improving Neonatal Intestinal Barrier Function To Reduce Intestinal and Systemic Disease

Erika C. Claud, University of Chicago, Chicago, IL

3:20 Understanding the Immature Intestinal Innate Inflammatory Response

David J. Hackam, University of Pittsburgh School of Medicine, Pittsburgh, PA

3:50 Understanding the Immature Intestinal Adaptive Inflammatory Response

Joern-Hendrik Weitkamp, Vanderbilt University Medical Center, Nashville, TN

4:20 The Influence of Nutrition on Postnatal Intestinal Maturation and the Risk for Preterm Diseases

Camilia Rivera Martin, Beth Israel Deaconess Medical Center, Boston, MA

Jointly sponsored by the Pediatric Infectious Diseases Society and the Pediatric Academic Societies

Supported by an unrestricted educational grant from International Pediatric Research Foundation

2:45pm–4:45pm

1610 Global Health

PAS State of the Art Plenary~Room 207

Target Audience: General pediatricians, health services researchers, researchers, policy makers, child advocates, public health professionals, trainees and educators interested in global health and the MDG.

Objectives:

- To understand the key elements of effective cross-national programs to reduce child mortality and morbidity

- To outline and understand the methods for establishing international research centers of excellence
- To understand the role of national and international organizations in promoting effective clinical, training and research collaborations
- To outline the components of sustainability of established programs addressing global child health

Chairs: Danielle Laraque, Maimonides Infants & Childrens Hospital of Brooklyn, Brooklyn, NY and Judith S. Palfrey, Children's Hospital, Boston, MA

In 2010, Global Health Part-I provided an action-framework for pediatricians seeking to improve child health outcomes worldwide. We propose a continuation of these vital discussions with follow-up sessions on the GHESKIO Centers in Haiti and Helping Babies Breathe (HBB). The Haiti experience was presented within the context of the devastating 2010-earthquake and the follow-up session reports on the progress made for cross-national collaborations in the wake of this disaster. The HBB was presented at the cusp of the initiative to ameliorate neonatal mortality in developing countries and in 2011 we present the first year's experience. We complement these sessions with two new ones: A view from the Fogarty Foundation on effective training models; and a report by WHO and IPA on cross-national collaborations addressing environmental health imperatives and MDG. Together these presentations will emphasize methods for sustaining substantive efforts in the children's global health agenda.

2:45 Global Health Part II: Have We Made Progress?

Judith S. Palfrey, Children's Hospital, Boston, MA

2:50 Helping Babies Breathe: On the Ground Experience, Year One

William J. Keenan, St. Louis University School of Medicine, St. Louis, MO

3:15 Fogarty Foundation: Lessons on Effective Training Models Globally

Duane Alexander, Fogarty International Center, National Institutes of Health, Bethesda, MD

3:40 The GHESKIO Centers in Haiti: One year following the Earthquake of 2010

William Jean Pape, Weill Medical College of Cornell University, Les Centres GHESKIO, New York, NY

4:05 The World Health Organization: Environmental Health Imperatives for Children's Global Health

Ruth A. Etzel, World Health Organization, Geneva, Switzerland

4:30 Discussion

Jointly sponsored by the Pediatric Infectious Diseases Society, the Programme for Global Paediatric Research and the Pediatric Academic Societies

5:00pm–6:30pm

1800 PAS/ASPR Opening General Session

Four Seasons I

Sunday, May 1

7:00am–8:00am

PAS Meet the Professor Breakfast Sessions

The purpose of these sessions is to provide trainees and junior faculty the opportunity to meet with senior academic physicians who can provide insights in their field and provide career guidance in a small interactive group. Attendance at each session is limited and available on a first-come, first-served basis to maintain an intimate interactive format. These sessions are of particular interest to trainees and junior faculty.

7:00am–8:00am

2036 Finding a Niche and Pursuing Your Passions in Pediatric Infectious Diseases

PAS Meet the Professor Breakfast Session
Hyatt Regency Downtown, Capitol 5

A wide variety of career paths and positions are seen among successful specialists in Pediatric Infectious Diseases. This interactive session is designed to provide trainees and junior faculty with insight and advice concerning the pursuit of an academic career in our field. Topics to be covered include tips for obtaining and empowering clinical and scientific training in infectious diseases to match individual goals. The discussion will also include perspectives for trainees and junior faculty on the balancing act involved in effective self-promotion, finding satisfaction in academic medicine, and taking the long view in career development.

Paul Krogstad

Departments of Pediatrics and Molecular and Medical Pharmacology
David Geffen School of Medicine at University of California
Los Angeles, CA

8:00am–10:00am

2125 Microbial Flora / Microbiome

PAS Topic Symposium~Room 207

Target Audience: Scientists and clinicians with an interest in neonatology, microorganisms, infections, immunology, gastroenterology, nutrition allergies, oncology, and development will strongly benefit from attending this session. Appeal will be in hearing about cross-continental advances in knowledge regarding pathophysiology and interventions targeted at the microbiome of the gut.

Objectives:

- To address advances in the field of the gut microbiome and its impact on various childhood disorders spanning chemotherapy-induced mucositis, food allergies and other immune disorders

Chairs: Talal Chatila, David Geffen School of Medicine at UCLA, Los Angeles, CA and Yuichiro Yamashiro, Juntendo University Graduate School of Medicine, Tokyo, Japan

This session will cover advances in the field of the gut microbiome and its impact on various childhood disorders spanning chemotherapy induced mucositis, food allergies and other immune disorders. Some controversies and novel studies will be discussed by the speakers. Some speakers hail from Asia and some from the US.

8:00 Bifidobacteria Secreted into Breast Milk—True or False? The Fact is Contamination But Not Secretion

Mohammed Shafiqur Rahman, Juntendo University Graduate School of Medicine, Tokyo, Japan

8:30 Oral Supplementation With Bifidobacteria Breve Alleviates Chemotherapy–Induced Mucositis In Children

Yuichiro Yamashiro, Probiotics Research Laboratory, Juntendo University Graduate School of Medicine, Tokyo, Japan

9:00 Role of the Microbiome in Food Allergy

Talal A. Chatila, David Geffen School of Medicine at UCLA, Mattel Children’s Hospital UCLA, Los Angeles, CA

9:30 Paneth Cells, Defensins, and the Regulation of the Intestinal Microbiome
Nita H. Salzman, The Medical College of Wisconsin, Milwaukee, WI

Jointly sponsored by the Asian Society for Pediatric Research, Pediatric Infectious Diseases Society and the Pediatric Academic Societies

8:00am–10:00am

2130 Role of Endoplasmic Reticulum “Stress” and Protein Misfolding in Disease States

PAS Topic Symposium~Korbel 2C

Target Audience: Gastroenterologists, endocrinologists, infectious disease, nephrologists, rheumatologists, obesity, basic scientists, and generalists.

Objective:

- At the conclusion of this session, participants should understand the role of the ER and how ER dysfunction can result in misfolded proteins which result in disease

Chairs: Paul W. Hruz, Washington University School of Medicine, St. Louis, MO and Patricia M. Vuguin, Children’s Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY

This symposium session is designed to bring the audience up to date on current concepts of ER “stress” and protein misfolding as they pertain to cellular function in certain disease states such as diabetes.

8:00 Proinsulin Misfolding in Diabetes States

Peter Arvan, University of Michigan, Ann Arbor, MI

8:40 Wolfram Syndrome, a Prototype Disorder of ER Stress and Protein Misfolding

Fumihiko Urano, University of Massachusetts Medical School, Worcester, MA

9:20 Targeting the Unfolded Protein Response to Protect Against Pancreatic Beta Cell Loss

Scott A. Oakes, University of California at San Francisco, San Francisco, CA

Jointly sponsored by the Pediatric Endocrine Society, Pediatric Infectious Diseases Society and the Pediatric Academic Societies

10:15am–11:45am

2250 APS Presidential Plenary and Awards

Four Seasons I

12:00pm–1:00pm

2370A Neonatal Sepsis Club

Korbel 2B/3B

Target Audience: Scientists and clinicians specializing in neonatology, pediatric critical care, pharmacology, infectious diseases, newborn care, NEC, patient safety and quality improvement will be interested in this topic.

Objective:

- To understand new findings of prolonged antiviral suppression of HSV and new management considerations for pregnancies complicated by HSV

Chair: David A. Kaufman, University of Virginia Children’s Hospital, Charlottesville, VA

Poor neurodevelopmental outcomes and cutaneous recurrences remain frequent among survivors of neonatal Herpes simplex virus (HSV) disease. The National Institute of Allergy and Infectious Diseases (NIAID) Collaborative Antiviral Study Group (CASG) evaluated the ability of oral acyclovir suppressive therapy to impact these outcomes in an RCT. Neonates with HSV disease following completion of parenteral acyclovir, were randomized to immediate acyclovir suppression (300 mg/m²/dose orally 3 times daily for 6 months) or placebo. Subjects randomized to acyclovir suppression had significantly higher mean Bayley Scales of Infant Development Mental Scores at 12 months compared with the placebo patients (88.24 vs. 68.12, p=0.046). Infants surviving neonatal HSV CNS disease have improved neurodevelopmental outcomes when started immediately on suppressive oral acyclovir therapy for six months. Additionally, antiviral suppression after both CNS and skin, eye, mouth (SEM) disease decreases skin lesion recurrences. This study and an update on perinatal, intrapartum and neonatal management will be discussed.

12:00 Introduction

David A. Kaufman, University of Virginia Children's Hospital, Charlottesville, VA

12:05 Herpes simplex Virus: Treatment For Six Weeks or Six Months. Update on Prenatal, Intrapartum and Neonatal Management

Richard J. Whitley, University of Alabama at Birmingham, Children's Hospital, Birmingham, AL

12:40 Discussion

12:30pm-4:00pm

2600 AAP Presidential Plenary and Annual Silverman Lecture

Four Seasons I

1:00pm-3:00pm

2665 Emerging Zoonotic-Human Viruses: Are They Really New?

PAS Topic Symposium~Room 203

Target Audience: Researchers and clinicians who wish to understand current knowledge on possible mechanisms by which viruses are maintained in animal populations and are transmitted to humans, and by which viruses adapt to cause human disease.

Objective:

- To understand the determinants of virus host switching from animals to humans and the relevance to emerging human viruses

Chairs: Mark R. Denison, Vanderbilt University School of Medicine, Nashville, TN and Stanley Perlman, University of Iowa Hospital & Clinics, Iowa City, IA

There is increasing recognition that new human viruses may result from host switching from zoonotic sources such as bats and pigs, as exemplified by SARS, Influenza, Ebola and Hendra/Nipah viruses. Some animals such as bats may represent greater than twenty percent of mammalian species and have unique characteristics that may make them excellent reservoirs for potential cross-species human viruses. New approaches are emerging for rapid identification of animal viruses and determination of their potential for human disease. The session will address the key features of viruses that may be critical in their ability to jump species, as well as the unique features of bat biology and ecology that may favor the maintenance of virus populations. Specific examples of virus transmission, virus-host evolution and disease will highlight the importance of animals and new emerging human viruses.

1:00 New Paradigms for Zoonotic/Human Virus Host Species Switching and Adaptation

Mark R. Denison, Vanderbilt University School of Medicine, Nashville, TN

1:05 When Pigs Flu: Determinants of Influenza Maintenance and Transmission from Pigs to Humans

James E. Crowe, Jr., Vanderbilt University Medical Center, Nashville, TN

1:35 Bats: Newly Recognized Reservoirs of Serious Human Pathogens

Charles H. Calisher, Colorado State University, Fort Collins, CO

2:05 The Determinants of SARS Pathogenesis in Human Respiratory Disease

Stanley Perlman, University of Iowa Hospital & Clinics, Iowa City, IA

2:35 Bats and Emerging Viruses: Villains or Victims?

Mark R. Denison, Vanderbilt University School of Medicine, Nashville, TN

Jointly sponsored by the Pediatric Infectious Diseases Society and the Pediatric Academic Societies

3:30pm-5:30pm

2840 Neonatal Infectious Diseases / Immunology: Clinical

Platform Session~Room 203

Chairs: Roger G. Faix and Charles R. Woods

Refer to PAS Daily Programming for complete details.

4:15pm-7:30pm

Commercial Exhibits Open and Posters Available for Viewing

Exhibit Hall A/F

Posters Available for Viewing: 4:15pm-7:30pm

Author Attendance: 5:45pm-7:30pm

5:45pm-7:30pm

Infectious Disease Posters

Exhibit Hall F

Course #	Topics	Boards
2941	General Virology	441-458
2942	Viral Vaccines	459-466
2943	Influenza	467-484
2944	Viral Epidemiology	485-495
2945	Clinical Infectious Diseases	496-523
2946	HIV	524-530
2947	Staphylococcus aureus	531-542
2948	Viral Pathogenesis	543-549
2949	RSV	550-564
2950	Sepsis / Bacteremia	565-569

Refer to PAS Daily Programming for complete details.

Monday, May 2

7:00am-8:00am

3020 2011 Public Policy Council Legislative Breakfast Health Reform and New Delivery System Models, What do Emerging Accountable Care Organizations (ACOs) Mean for Pediatrics?

PAS Breakfast~Korbel 4B

Target Audience: Scientists, clinicians, and those interested in policy and public health pertaining to children.

Chair: Leona Cuttler, Rainbow Babies & Children's Hospital, Case Western Reserve University, Cleveland, OH

Health reform legislation included incentives for new delivery system models and pilot programs across public and private payers. One such model in Medicaid is the pediatric Accountable Care Organization (ACO) in which services are delivered in integrated organizations of providers. ACOs are emerging as a major change in delivery systems, and the implications for Pediatrics are important. With particular emphasis on ACOs, this session will briefly review the models for new delivery systems proposed in the Affordable Care Act, describe the status of implementation and review the evidence, and consider ways to implement ACOs.

7:00 Introduction

Leona Cuttler, Rainbow Babies & Children's Hospital, Case Western Reserve University, Cleveland, OH

7:05 What are Accountable Care Organizations (ACOs)?

Mark Del Monte, Director of the American Academy of Pediatrics, Department of Federal Affairs, Washington, D.C.

7:20 What do ACOs Mean for Pediatrics?

Paul H. Wise, Director, the Center for Policy, Outcomes and Prevention, Stanford University, Stanford, CA

7:35 What Could a Pediatric ACO Look Like?

Richard C. Antonelli, Medical Director for Integrated Care Children's Hospital Boston Integrated Care Organization, Harvard Medical School, Boston, MA

7:50 Panel Discussion with Q and A

Sponsored by the Public Policy Council

8:00am–10:00am

3105 New Frontiers in the Treatment of Infections in Children

PAS Topic Symposium~Room 201

Target Audience: General pediatricians, infectious disease specialists.

Objectives:

- To understand some of the methods being used to identify new anti-infective agents and possible new therapeutic agents on the horizon

Chair: Ravi R. Jhaveri, Duke University Medical Center, Durham, NC and Paul Krogstad, University of California, Los Angeles, CA

As our understanding of the interactions between host and pathogen increases, new therapeutic targets are being discovered. Also, new methods of high throughput screening are identifying compounds with therapeutic potential, often prior to complete delineation of the mechanism of action.

8:00 Innovative Strategies for the Identification of Tomorrow's Antifungal Drugs
Damian J. Krysan, Univ of Rochester School of Medicine and Dentistry, Rochester, NY

8:30 MicroRNAs as a Viable Anti-Viral Target
Ravi R. Jhaveri, Duke University Medical Center, Durham, NC

9:00 Identification of Novel Antimicrobial Strategies from Studies of Host-S. aureus Interaction
George Liu, Cedars-Sinai Medical Center/UCLA, Los Angeles, CA

9:30 Selectively Targeting Virulence Pathways: Focusing on the Pathogens and Sparing the Commensals
Patrick C. Seed, Duke University Medical Center, Durham, NC

Jointly sponsored by the Pediatric Infectious Diseases Society and the Pediatric Academic Societies

10:15am–12:15pm

3260 SPR Presidential Plenary and Awards

Four Seasons 4

12:15pm–1:15pm

3420A PIDS Blue Ribbon Research

Room 201

Chairs: Jennifer S. Read, National Institutes of Health (NIH), Bethesda, MD and Paul Spearman, Emory University School of Medicine, Atlanta, GA

12:15 A Monoclonal Antibody (Pagibaximab) Against Lipoteichoic Acid (LTA) as Adjunct Therapy Improves Outcome for Methicillin Resistant Staphylococcus Aureus (MRSA) Sepsis in Suckling Mice. Leonard E. Weisman, Angela H. Leeming, Lingkun Kong. *Publication 3420A.1*

12:30* The Impact of Revised (2002) Center for Disease Control Guidelines for Neonatal Group B Streptococcal Disease Prevention on Triage and Hospital Length of Stay. Elizabeth Hoepfner, Rhonda Rosychuk, Dele Davies, Joan Robinson, Thierry Lacaze-Masmonteil. *Publication 3420A.2*

12:45 Latency of Varicella-Zoster Virus (VZV) in Vaccinated Children. Anne A. Gershon, Jason Chen, Larry Davis, Clarissa Krinsky, Robert Cowles, Michael D. Gershon. *Publication 3420A.3*

1:00* Influenza IgA Antibody in Human Milk: A Randomized Trial of Maternal Influenza Immunization. Mark C. Steinhoff, Elizabeth P. Schlaudecker, Saad B. Omer, Eliza Roy, K. Zaman. *Publication 3420A.4*

1:00pm–3:00pm

3580A Sixteenth Annual Lecture: The March of Dimes Prize in Developmental Biology

Korbel 2A/3A

Please join us at a lecture by two pioneering scientists whose work has been essential to our understanding of sex chromosomes.

A fellow scientist has written, I consider Patricia Jacobs the mother of human cytogenetics and David Page the father of the human Y chromosome. In 1959,

Prof. Jacobs was the first to describe a chromosomal abnormality in humans, the additional X chromosome in Klinefelter syndrome. Dr. Page's study and sequencing of the Y chromosome has advanced our understanding of it beyond its male determining role to a complex genetic system with a repertoire of many specialized functions. Their extraordinarily successful research continues to open up exciting new possibilities for the diagnosis and treatment of birth defects, infertility, and many diseases.

The March of Dimes Prize in Developmental Biology has been awarded annually since 1996 to investigators whose research has profoundly advanced the science that underlies our understanding of birth defects.

My Fifty Years of Cytogenetics: Some Highlights

Patricia Ann Jacobs, Co-Director of Research, Wessex Regional Genetics Laboratory Salisbury, Wiltshire, England

Rethinking the Y Chromosome

David C. Page, Director, Whitehead Institute for Biomedical Research & Professor of Biology, Massachusetts Institute of Technology, Howard Hughes Medical Investigator, Cambridge, Massachusetts

Presented by The March of Dimes Foundation

1:45pm–3:45pm

3605 Emerging Pediatric Pathogens: A Symposium of Experience and Perspective Across Cultures and Continents

PIDS Symposium~Room 201

Target Audience: Scientists and clinicians with an interest in pediatric health, the diagnosis and treatment of pediatric infectious diseases, antibiotic resistance, and international and global health.

Objective:

- To better understand the controversies surrounding the diagnosis and management of emerging viral and bacterial pathogens important to pediatrics from the perspective of experts from two different cultures and continents

Chairs: Gail Demmler-Harrison, Baylor College of Medicine, Houston, TX and Hiroyuki Moriuchi, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

This symposium will showcase six speakers from two continents, who will share their experience and perspectives, in a unique point-counterpoint format with audience participation, on important emerging pediatric pathogens in Asia and North America. The topics to be presented include lessons learned from the global pandemic of 2009 H1N1 influenza A virus, the increasing importance of antibiotic resistant G-Gram positive organisms, including methicillin resistant Staphylococcus aureus (MRSA) and antibiotic resistant Streptococcus pneumoniae, and the diagnostic challenges surrounding pediatric tuberculosis and the utility of new diagnostic assays in children. The symposium will facilitate the intercontinental exchange of research and clinical experiences to improve the health of children around the world.

Emerging Pediatric Pathogens: A Symposium of Experience and Perspective Across Continents and Cultures

1:45 The View from Asia
Hiroyuki Moriuchi, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

1:50 The View from North America
Gail Demmler-Harrison, Baylor College of Medicine, Houston, TX
Pandemic 2009 H1N1 Influenza A: Lessons Learned Across Continents

1:55 The View from Asia
Tsuneo Morishima, Okayama University School of Medicine, Okayama, Japan

2:10 The View from North America
Timothy M. Uyeki, Centers for Disease Control and Prevention, Atlanta, GA

Antibiotic Resistant Staphylococcus aureus and Streptococcus pneumoniae: Positive Perspectives Between Continents

2:25 The View from Asia
Yong-hong Yang, Beijing Children's Hospital Affiliated to Capital Medical University, Beijing, China

- 2:40 The View from North America**
Sheldon L. Kaplan, Baylor College of Medicine, Houston, TX
Pediatric Tuberculosis: Diagnostic Challenges Across the Continents
- 2:55 The View from Asia**
Li-Min Huang, National Taiwan University Hospital, Taipei, Taiwan
- 3:10 The View from North America**
Jeffrey R. Starke, Baylor College of Medicine, Houston, TX
- 3:30 Discussion**

Jointly sponsored by the Asian Society for Pediatric Research, Pediatric Infectious Diseases Society, the Programme for Global Paediatric Research and the Pediatric Academic Societies

3:30pm–5:30pm

3610 Effects of Chronic Inflammation on Growth and Development, Skeletal Health, and Body Composition

PAS Hot Topic~Korbel 1A/D

Target Audience: Clinical and academic general pediatricians and pediatric subspecialists including gastroenterologists, nephrologists, rheumatologists, pulmonologists, endocrinologists, and adolescent medicine specialists.

Objectives:

- To understand the molecular effects of inflammatory cytokines on cell biology and signaling pathways involved in growth
- Understand the effects of inflammation on nutrition, especially protein metabolism, and body composition
- Understand the specific effects of chronic inflammation on growing bone
- Explore novel therapeutic interventions to ameliorate the deleterious effects of chronic inflammation

Chairs: Brandon Nathan, University of Minnesota, Minneapolis, MN and Joseph Wolfsdorf, Children's Hospital Boston, Boston, MA

This symposium addresses the protean molecular effects and clinical manifestations of chronic childhood inflammatory disease on physical growth and development, skeletal health, body composition, and well-being. Chronic inflammatory disease in children and adolescents is characterized by poor appetite and suboptimal nutrition, altered nutrient utilization, impaired growth and delayed puberty, reduced muscle and bone mass, fatigue and physical inactivity. Circulating proinflammatory cytokines affect bone cell activity, and drugs used to treat these disorders, notably glucocorticoids, have negative effects on bone formation and on linear growth. Recent studies provide insight into disturbances of growth hormone action, protein metabolism, and the pathogenesis of decreased bone mass. This symposium will review new knowledge concerning these pathophysiologic mechanisms and highlight opportunities for therapeutic intervention in selected disorders.

- 3:30 Molecular Mechanisms of Growth Failure in Colitis**
Lee A. Denson, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- 4:05 How To Prevent and/or Reverse Growth Failure in Inflammatory Bowel Disease**
Athos Bousvaros, Children's Hospital of Boston, MA
- 4:40 Inflammatory Disease in Children: Effects on Bone**
Francisco Sylvester, Connecticut Children's Medical Center, Hartford, CT
- 5:15 Discussion**

Jointly sponsored by the Pediatric Endocrine Society, Pediatric Infectious Diseases Society and the Pediatric Academic Societies

3:30pm–5:30pm

3660 Infectious Disease: Virology
Platform Session~Room 203

Chairs: James E. Crowe, Jr., and Bazak Sharon

Refer to PAS Daily Programming for complete details.

4:00pm–5:00pm

3745A PIDS 8th Annual Stanley A. Plotkin Lectureship in Vaccinology
Room 201

Chair: Penelope H. Dennehy, Rhode Island Hospital, Providence, RI

The Pediatric Infectious Diseases Society has established the Stanley A. Plotkin Lectureship in Vaccinology to honor Dr. Plotkin, the Society's "Founding Father." The lecture, which takes place at the annual PIDS meeting is sponsored by sanofi pasteur. Dr. Plotkin was medical director at sanofi pasteur and remains a medical and scientific advisor. The inaugural lecture was delivered by Dr. Plotkin in 2004.

Stanley A. Plotkin Awardee Introduction

James D. Cherry, David Geffen School Of Medicine at UCLA, Los Angeles, CA

You Win Some, You Lose Some: Rotavirus and Herpes Virus Vaccines

David I. Bernstein, Children's Hospital Medical Center, Cincinnati, OH

Jointly sponsored by the Pediatric Infectious Diseases Society and the Pediatric Academic Societies

4:15pm–7:30pm

Commercial Exhibits Open and Posters Available for Viewing

Exhibit Hall A/F

Posters Available for Viewing: 4:15pm–7:30pm

Author Attendance: 5:45pm–7:30pm

5:00pm–6:00pm

3760A PIDS Business Meeting
Room 201

5:45pm–7:30pm

Neonatal Infectious Diseases / Immunology Posters

Exhibit Hall F

Course #	Topics	Boards
3814	Outcomes	119-121
3815	Neonatal Immunology	122-142
3816	Sepsis	143-152
3817	Biomarkers / Diagnosis / Surveillance	153-157
3818	Neonatal Infectious Diseases	158-165
3819	Candidiasis	166-170
3820	Viral Pathogens	171-175
3821	Necrotizing Enterocolitis (NEC)	176-180
3822	Bacterial Infections	181-184
3823	Antibiotics	185-191
3824	Other	192-198
3836	Neonatal Infectious Diseases	371-381

Refer to PAS Daily Programming for complete details.

6:45pm–11:00pm

3900A PIDS Annual Awards Program and Reception

Grand Hyatt Denver Downtown Hotel, Capitol Peak Ballroom

Inquire through the PIDS Office at 703-299-6764

Tuesday, May 3

8:00am–10:00am

4120A Recent Advances in Clinical Virology in Asia
ASPR Symposium~Korbel 4A

Target Audience: General pediatricians and infectious disease specialists.

Objectives:

- To understand the clinical characteristics of pandemic influenza H1N1 2009, especially initial symptoms

- To understand the epidemiology of rotavirus infection in Asia
- To understand the present status of mother-to-child transmission of human herpesviruses and retroviruses in Asia

Chairs: Dong Soo Kim, Yonsei University College of Medicine, Severance Children's Hospital, Seoul, Korea and Koichi Kasuhara, University of Occupational and Environmental Health School of Medicine, Kitakyushu, Japan

In recent years emergence of new viruses (e.g., pandemic influenza A (H1N1) 2009 and SARS coronavirus), accumulated information on epidemiology of viral diseases and development of new approaches to viral infections have brought significant advances in clinical virology in Asian countries. In this symposium, we will focus on new findings on emerging viral infections, surveillance data of viral diseases and mother-to-child transmission of viruses. Dr. Kim will present the clinical characteristics of pandemic influenza H1N1 2009 in Korea, especially its initial symptoms. Dr. Chen will report data on rotavirus surveillance in China and Taiwan, which are expected to change by the introduction of new rotavirus vaccines. Dr. Moriuchi will explain the present status of mother-to-child transmission of human herpesviruses and retroviruses in Asia, including their new approach to diagnosis. Other topics on clinical virology will also be presented.

8:00 Clinical Characteristics of Respiratory Tract Infections in Children During Pandemic Influenza (H1N1 2009) in Korea

Dong Soo Kim, Yonsei University College of Medicine, Severance Children's Hospital, Seoul, South Korea

8:20 Surveillance Data of Rotaviral Gastroenteritis in China and Taiwan

Po-Yen Chen, Taichung Veterans General Hospital, Taichung City, Taiwan

8:40 Mother-to-Child Transmission of Human Herpesviruses and Retroviruses

Hiroyuki Moriuchi, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

9:00 Rotavirus Infection as Common Cause of Neonatal Fever. Chang-Ryul Kim, Sung Ho Yoon, Hyun Kyung Park, Se Min Lee, Jae Won Oh, Myung Kul Yum, Jung Oak Kang. *Publication 4120A.1*

**ASPR Best Research Award
Hye Soo Yoo**

9:15 Perinatal Cytomegalovirus Infection Associated with Freeze-Thawed Breast Milk Feeding in Extremely Low Birth Weight Infants (<1,000gm). Ji Hun Shin, Hye Soo Yoo, Jin Kyu Kim, So Yun Ahn, Eun Sun Kim, Yun Sil Chang, Won Soon Park. *Publication 4120A.2*

9:30 Genetic Diversity of Echovirus Type 30 Associated with Meningitis Outbreaks in Japan from 1982 to 2004. Mitsuaki Hosoya, Yukihiko Kawasaki, Koichi Hashimoto, Masatoki Sato. *Publication 4120A.3*

9:45* Current Knowledge, Attitude and Practice of Filipino Pediatricians on Rotavirus Vaccine. Ma. Kimberly Ticman, Felizardo Gatcheco, Myrna Milan, Myrna Ancheta, Violeta Meneses. *Publication 4120A.4*

Sponsored by the Asian Society for Pediatric Research

8:00am–10:00am

4150 Infectious Disease: Pathogenesis
Platform Session~Korbel 4B

Chairs: Janet R. Gilsdorf and Sing Sing Way

Refer to PAS Daily Programming for complete details.

12:30pm–2:00pm

Poster Session IV
Exhibit Hall F

2:00pm–4:00pm

4715A Viral Hepatitis – Update in 2011
ASPR Symposium~Korbel 4A

Target Audience: General pediatricians and pediatric gastroenterology, hepatology and nutrition specialists.

Objectives:

- To understand the pathogenic mechanisms of viral hepatitis and implication
- To compare the epidemiology, clinical manifestations, viral factors, host factors, therapies, and preventions in the Eastern versus Western world

Chairs: Mei Hwei Chang, National Taiwan University Hospital, Taipei, Taiwan and Ronald J. Sokol, University of Colorado School, CO

Infection of hepatitis virus (A to E) is a world-wide health problem, which may cause acute, fulminant, or chronic hepatitis, liver cirrhosis, and hepatoma. The pathogenesis of viral hepatitis is related to the host and virus interaction. Studies of the viral factors, such as viral genotypes, mutants or variants with or without antiviral therapies, viral titers, have rapidly advanced in the past decades. Research in the host factors also progressed rapidly in recent years. Although the complications of hepatitis related liver diseases often present in adults, primary infection frequently occurs in childhood. The patterns of epidemiology, transmission routes, clinical courses, viral genotypes, complications, prevention and management may be different in the Eastern and Western world. Updated knowledge of the virus-host interaction and the comparisons between the Eastern and Western world may have implications for the development of better strategies in the control of viral hepatitis and related complications.

2:00 Host and Virus Interaction in Viral Hepatitis

Mei Hwei Chang, National Taiwan University Hospital, Taipei, Taiwan

2:30 Update on Hepatitis in Children of the Western World

Ronald J. Sokol, University of Colorado, The Children's Hospital, Aurora, CO

3:00 Update on Hepatitis in Asian Children

Tomoo Fujisawa, Yokohama Eastern Hospital, Yokohama, Japan

3:30 Challenge with Hepatitis B Vaccine in Infants Infected by HBV in Uterus.

Ayano Inui, Haruki Komatsu, Tomoyuki Tsunoda, Akitoshi Murayama, Tsuyoshi Sogo, Tomoo Fujisawa. *Publication 4715A.1*

**ASPR Best Research Award
Seung man Cho**

3:45* Viral Suppression of Adefovir Dipivoxil in Combination with Lamivudine in Korean Children with Lamivudine-Resistant Chronic Hepatitis B. Seung man Cho, Byung-Ho Choe, Mi Ae Chu, Jung-Mi Kim. *Publication 4715A.2*

Sponsored by the Asian Society for Pediatric Research

**Visit the
Pediatric Infectious
Diseases Society
at www.pids.org**

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