



*42nd Annual Meeting of the
Perinatal Research Society*

Stonewall Resort, Roanoke, West Virginia

September 23-25, 2011

Registration Information

Registration

All attendees to the 2011 meeting must submit an online registration form available from the PRS web site. The Stonewall Resort will not accept reservations directly from members. The registration deadline is **August 1, 2011**. Single and double rooms are available but to have your choice of rooms we recommend you book early! A credit card will be requested by the hotel upon check in for optional personal expenses incurred during the stay.

Included with your registration is 2 nights lodging (Friday and Saturday), six meals and three refreshment breaks at a package price (shown below) for the weekend of September 23-25, 2011. There is no additional registration fee; all prices include applicable service charges and fees assessed by the hotel.

	Payment by Cash, Check, Money Order, Credit Card
Single Guest Room & Meal Plan	\$615.00 per person
Single Guest Room & Spouse Meal Plan	\$815.00 per couple
Double Guest Room & Meal Plan	\$415.00 per person
Day Guest (Meal Plan Only)	\$100.00 per person

Speaker and Young Investigator Registration

Speakers and Young Investigators who are guests of PRS still need to complete the online registration form to confirm your arrival and departure dates. Also be sure to see our web site for the approved reimbursement policy.

Children:

Contact the PRS Office at (608) 265-5838 or prsadmin@erp.wisc.edu for additional charges for children attending the meeting.

Pre/Post Stay

Members wishing to arrive early or extend their stay may receive the special rate of \$159.00 per night for up to three days prior or post meeting. Rate includes the room rate only, taxes and \$14.00 resort fee are additional. No meals are included with the pre/post stay. Please indicate pre/post stay dates on the registration form. Pre and post stay charges will be billed to your individual credit card provided at the time of arrival.

Transportation

Members and Guests will need to arrange for additional ground transportation from the airport to the Stonewall Resort. A list of airports and interactive maps is available on the PRS website.

Meeting Information

PRS Check-In

To ensure that attendance is recorded and to receive meeting materials, please check in with the Society staff upon arrival at the Registration desk located in the main lobby.

Golf

Tee times can be arranged by calling (304) 269-8885. Nine or 18 holes are available.

Health Spa

The weekend package price includes the use of the Health Spa facilities September 23, 2011-September 25, 2011. Pre/post stay charges are at the normal admission fee of \$14 per day per guest room. Spa appointments can be arranged at (304)269-8881. Download a Spa services brochure at <http://www.stonewallresort.com/spa/spa.asp>.

Meals

Registration includes the following meals: Dinner (Friday), Breakfast, Lunch and Dinner (Saturday), Breakfast (Sunday) and either buffet lunch or box lunch (Sunday). Vegetarian options are provided at each meal. Please contact the PRS Office by September 8, 2011 to request a box lunch on your departure date. Buffet dining will be available in Stillwater Restaurant at the adjournment of the meeting.

Parking

Vehicle parking on the grounds is included in the daily resort fee of \$14 per room. This fee is already included with the weekend package price.

Internet Connection

High speed internet access is available throughout the property and guestrooms. This is included in the \$14 per day resort fee built-in to the weekend package rate (above).

Stonewall Resort Activities

The resort fee that is included with your weekend package allows access to the Stonewall grounds and state park as well as use of recreational items (mountain bikes, paddle boats, canoes, kayaks, and fishing poles). An excursion boat tour is also available on Saturday afternoon, weather permitting.

**2011 Perinatal Research Society
42nd Annual Meeting -Stonewall Resort, Roanoke, WV**

Friday, Sept. 23

4:00 pm- 6:00 pm Check-In, Registration with "General Congregation at the Bar" TJ Muskie's Lounge

6:00 pm - 6:15 pm Welcome by PRS President Stonewall Ballroom

John CP Kingdom, MD

Professor, ObGyn, Medical Imaging and Pathology
Staff Obstetrician, Maternal-Fetal Medicine Division Rose
Torno Chair, Mount Sinai Hospital, University of Toronto, ON

6:15 pm -7:15 pm MEAD JOHNSON LECTURER Stonewall Ballroom

Mark Kilby, DSc MD FRCOG

Professor and Chairman, Department of Obstetrics &
Gynecology Director of Fetal Medicine,
West Midlands Region University of Birmingham, England UK

"Fetal Therapy: A Medieval or Modern Tool in Perinatal
Medicine?"

Moderator: John CP Kingdom, MD

7:15 pm - 8:00 pm Welcome Reception Stonewall Ballroom
Foyer

8:00 pm Dinner Stonewall Ballroom
Introduction of Trainees by Drs. Kingdom, Cipolla and Lane

Saturday, Sept. 24

7:00 am - 8:00 am YOUNG INVESTIGATOR BREAKFAST Pecan Room
Q & A Session with Drs. Bernstein, Challis and PRS Members

7:00 am - 8:00 am Breakfast Stillwater
Restaurant

8:00 am - 9:00 am	MARCH OF DIMES LECTURER	Stonewall Ballroom
	Gordon C.S. Smith, MD/PhD	
	Professor & Chairman, Department of Obstetrics & Gynecology, University of Cambridge, England	
	"Preventing Stillbirths with an Epidemiologist's Toolbox"	
	Moderator: Leonardo Periera, MD	
9:00 am -10:00 am	NICHD LECTURER	Stonewall Ballroom
	Louise Laurent, MD/PhD	
	Assistant Professor, Maternal-Fetal Medicine UCSD, San Diego, CA	
	"DNA Methylation and the Control of Early Placental Development"	
	Moderator: Marilyn Cipolla, PhD	
10:00 am -10:30 am	Break	Stonewall Ballroom Foyer
10:30 am -11:30 am	PERKIN ELMER EARLY CAREER INVESTIGATOR SPEAKER PRESENTATIONS: Session 1.	Stonewall Ballroom
	Mana Parast, MD/PhD	
	Assistant Professor, Department of Pathology UCSD, San Diego, CA	
	"Genomic Regulation of Early Placental Development and its Implications for the Pathogenesis of 'Placental Insufficiency' Syndromes"	

	<p>Daniel Hardy, PhD</p> <p>University of Western Ontario Assistant Professor, Departments of Obstetrics & Gynecology and Physiology & Pharmacology</p> <p>“The Role of the Liver X Receptor (LXR) in the Fetal Programming of the Liver”</p> <p>Moderator: John Kingdom, MD</p>	Stonewall Ballroom
11:30 am -12:30 pm	<p>GUEST LECTURE</p> <p>Shoo Lee, MBBS, FRCPC, FAAP, PhD</p> <p>Professor, Department of Pediatrics & Newborn Medicine Director, Canadian Neonatal Network Mount Sinai Hospital & University of Toronto, ON</p> <p>"The Gentle Neonatologist"</p> <p>Moderator: Catalin Buhimschi, MD</p>	Stonewall Ballroom
12:30 pm -1:30 pm	Lunch	Stillwater Restaurant
1:30 pm -4:00 pm	Free Afternoon	
4:00 pm - 5:00 pm	Business Meeting	Stonewall Ballroom
5:00 pm - 6:00 pm	<p>LILEY LECTURER</p> <p>Dr. Kurt Albertine, PhD, F.A.A.A.</p> <p>Professor Department of Pediatrics, Division of Neonatology University of Utah, Salt Lake City, UT USA</p> <p>“Epigenetic Platform Underlying Developmental and Adult Consequences of Bronchopulmonary Dysplasia”</p> <p>Moderator: Robert Lane, MD</p>	Stonewall Ballroom
6:00 pm -7:30 pm	<p>"Science at the Bar: Discovering PI's by Speed-dating" Led by Leslie Myatt, John Kingdom, and a bunch of thirsty PI's</p>	Birch Room

7:30 pm Dinner Stonewall Ballroom

Sunday, Sept. 25

7:00 am - 8:00 am NIH/NICHD YOUNG INVESTIGATOR BREAKFAST Pecan Room

Tonse Ranju, MD

National Institutes of Health, Eunice Kennedy Shriver
National Institute for Child Health and Human Development

“Grants(wo)manship for new Faculty”

7:00 am - 8:00 am Breakfast Stillwater
Restaurant

8:00 am - 9:00 am MICHAEL SMITH FOUNDATION LECTURER Stonewall Ballroom

Deborah Money, MD

Departments of Obstetrics & Gynecology and Medicine
University of British Columbia, Vancouver, BC

“Vaginal Microbiome and Preterm Birth”

Moderator: Dongbao Chen, PhD

9:00 am - 10:00 am ABBOTT NUTRITION LECTURER Stonewall Ballroom

Mark Phillippe, MD, MHCM

Professor & Chair for the Department of Obstetrics,
Gynecology and Reproductive Sciences
University of Vermont College of Medicine, Burlington, VT

"The Pandemic Is Over; However H1N1 Lives On"

Moderator: Joyce Koenig, MD

10:00 am - 10:15 am Break Stonewall Ballroom
Foyer

10:15 am - 11:15 am	PERKINELMER EARLY CAREER INVESTIGATOR SPEAKER PRESENTATIONS: Session 2.	Stonewall Ballroom
	Camille Fung, MD	
	Assistant Professor, Pediatrics Division of Neonatology University of Utah, Salt Lake City, UT	
	"IUGR's Effects on the Epigenetic Regulation of Nestin, a Key Regulator of Neural Stem and Progenitor Cell Multipotentiality"	
	Shiao-yng Chan, MBBS, PhD	Stonewall Ballroom
	Senior Clinician Scientist Lecturer Institute of Biomedical Research, University of Birmingham, UK	
	"Thyroid Status and Fetoplacental Development"	
	Moderator: Russell Anthony, PhD	
11:15 am -12:15 pm	MOLLY-TOWELL LECTURER	Stonewall Ballroom
	Stephen Matthews, PhD	
	Professor and Chairman, Department of Physiology University of Toronto, ON	
	"Hippocampal Regulation of Perinatal Programming"	
	Moderator: Jeff Reese, MD	
12:15 pm	Adjournment	Stonewall Ballroom
12:30 pm	Lunch is available in the Stillwater Restaurant Box lunch distribution begins at 11:00 am	

2011 Young Investigators and Early Career Speakers

The Perinatal Research Society welcomes the following Young Investigators to the 42nd Annual Meeting at the Stonewall Resort in Roanoke, West Virginia. Young Investigators are supported in part by NIH Grant 7R13HD036244-13, Abbott Nutrition, Perkin Elmer and the Michael Smith Foundation for Health Research.

Early Career Speakers

Dr. Mana Parast	University of California – San Diego, CA
Dr. Daniel Hardy	University of Western Ontario, Canada
Dr. Shiao-yng Chan	University of Birmingham, UK
Dr. Camille Fung	University of Utah, USA

Young Investigators

Dr. David Baud (OB)	University of Toronto, Canada
Dr. Jeanette Chin (Peds)	University of Utah, USA
Dr. Ali Unzila (OB)	Yale University, USA
Dr. Tracey Weissgerber (Basic)	University of Pittsburg, USA
Dr. Martin Frascch (Basic)	University of Montreal, Canada
Dr. Jan Heng (Basic)	Luenfeld Research Institute, Toronto, Ontario, Canada
Dr. Jesse Kweik (Basic)	Ohio State University, USA
Dr. Melissa Lodoen (Basic)	University of California – Irvine, USA
Dr. Joan Riley (Basic)	Washington University, USA
Dr. Alina Maloyan (Basic)	University of Texas Health Sciences University – San Antonio, USA
Dr. Yvonne Cheng (OB)	University of California San Francisco , USA
Dr. Katherine Himes (OB)	University of Pittsburg Medical Center, USA
Dr. Joseph Hurt (OB)	University of Colorado-Denver, USA
Dr. Jennifer Krupp (OB)	University of Wisconsin-Madison, USA
Dr. Kelley Wulfkuhle (OB)	University of Vermont, USA
Dr. Renju Raj (OB)	University of Vermont, USA
Dr. Nicole Marshall (OB)	Oregon Health Sciences University, USA
Dr. Catalina Bazacliu (Peds)	University of New York at Buffalo, USA
Dr. Sara Berkelhamer (Peds)	Northwestern University
Dr. Caroline Gibson (Peds)	University of California – Los Angeles, CA
Dr. Kristin Scheible (Peds)	University of Rochester, USA
Dr. Mariya Spasova (Peds)	Brown University, USA

Speaker Biographies

Early Career Speakers

Mana Parast is an Assistant Professor in Pathology at the University of California, San Diego. As an MSTP student in the laboratories of Drs. Carol Otey and Ann Sutherland, she discovered palladin, a novel actin-binding protein which plays a pivotal role in stress fiber formation and trophoblast differentiation. She did her residency training in Anatomic Pathology at Emory University, followed by fellowship training in Gynecologic and Perinatal Pathology with Drs. Chris Crum and Theonia Boyd at Brigham and Women's Hospital. Following her clinical training, she was a postdoctoral fellow at the Center for Excellence in Vascular Biology at BWH, working with Drs. Gimbrone and Milstone, where she explored the role of PPAR-gamma in labyrinthine differentiation of mouse trophoblast stem cells and its regulation by hypoxia. As an independent investigator at UC San Diego, she is continuing her work on PPAR-gamma, and currently exploring the crosstalk between this pathway and those involving hypoxia-inducible factor and sirtuin-1, and the involvement of these signaling pathways in fetal growth restriction and placental insufficiency in both mouse models and human placental disease. At the same time, she is the recipient of a new investigator grant from the California Institute for Regenerative Medicine to develop a human trophoblast stem (TS) cell model for the study of placentation and trophoblast-based pregnancy complications; she collaborates extensively with Dr. Louise Laurent (UCSD-Reproductive Medicine) on this and other projects.

Daniel Hardy is an Assistant Professor in the Departments of Obstetrics & Gynaecology and Physiology & Pharmacology at the University of Western Ontario (UWO). He obtained his Bachelor Science at the University of Waterloo, and his PhD at UWO. In 2003, he pursued his postdoctoral fellowship at the University of Texas Southwestern Medical Center in Dallas. Under the leadership of Dr. Carole Mendelson, Dr. Hardy investigated some of the mechanisms involved in the actions of steroid hormone receptors, along with pregnancy and parturition. In 2008, Dr. Hardy was recruited back to his current position at UWO, cross-appointed as Scientist within the Maternal, Fetal and Newborn Division of the Children's Health Research Institute (CHRI). His new laboratory examines the role of lipid-sensing nuclear receptors in the fetal origins of adult onset diseases including hypercholesterolemia and diabetes. To date, he receives funding support from the Canadian Institutes of Health Research (CIHR), NSERC, and the SickKids Foundation.

Camille Fung is an Assistant Professor in the Division of Neonatology, Department of Pediatrics at the University of Utah. She received her medical degree at Jefferson Medical College, followed by a Pediatric residency at St. Christopher's Hospital for Children. She then pursued a one-year NIH T32-sponsored postdoctoral research fellowship before completing her clinical fellowship in Neonatal-Perinatal Medicine both at UCLA. She assumed her faculty position in 2006 and has continued her research under the guidance of Robert Lane, MD. Her current research interest is to understand neural stem and progenitor cell (NSPC) biology during and after the period of intrauterine growth restriction (IUGR). She is specifically interested in the epigenetic regulation of the nestin gene, a key regulator of NSPC multipotentiality. This research is important because IUGR predisposes towards multiple neurodevelopmental disorders in affected infants, children, and adults. IUGR also occurs when NSPCs

are proliferating and differentiating into mature cell types. Her research at the University of Utah has been supported by the NIH CHRCDA (K12) as well as the Primary Children's Medical Center Foundation.

Shiao-yng Chan is a Senior Clinical Research Fellow funded on a prestigious Health Foundation Clinician Scientist Fellowship. She is also a practicing Consultant Obstetrician who heads the Endocrine Antenatal Clinic at the Birmingham Women's NHS Foundation Trust, UK. She graduated in Medicine and Surgery from the University of Cambridge in 1995 and moved to Birmingham to start training in Obstetrics and Gynaecology in 1997. Having obtained the MRCOG in 2000, she then went on to complete a PhD in 2004 as a Medical Research Council (MRC) Clinical Training Fellow under the supervision of Professor Mark Kilby and Professor Jayne Franklyn at the University of Birmingham. Her particular research interest is in thyroid hormone action in the fetal brain and in placental development and function, including the pathophysiology of intrauterine growth-restriction. She was awarded a MRC (UK) project grant as a New Investigator in 2006. With further research funding from charities including Action Medical Research, Wellbeing of Women and Birmingham Children's Hospital Charities, she has established her own research team in laboratory sciences at the Institute of Biomedical Research, University of Birmingham, UK. She is a strong advocate of translational research and aims to build an effective bridge that enables scientific knowledge to be incorporated into improvements in the care of pregnant women and their developing fetus. She is also a key member of the research team currently conducting the TABLET study, a randomised controlled clinical trial of levothyroxine treatment in euthyroid TPO antibody positive women in pregnancy funded by MRC/NIHR.

Named Sponsorship Speakers

Mark Kilby, MBBS, MD, FRCOG holds the Dame Hilda Lloyd Professorial Chair of Fetal Medicine at the University of Birmingham; College of Medical & Dental Sciences and is lead clinician in Fetal Medicine at the Birmingham Women's Foundation Trust. His clinical expertise relates to prenatal diagnosis, the management of complications of monochorionic twins, intrauterine growth restriction and its placental pathology and fetal therapy. He has published over 200 peer review original articles on topics relating to fetal medicine and in basic sciences applied to this subspecialty. The main areas of research are relating to: malplacentation and placental pathology, the endocrinology of the fetus and placenta, intrauterine fetal growth restriction, Trophoblast-decidua interaction and human implantation: the role of immune tolerance in pregnancy and treatments in pre-eclampsia. Present active funding: Wellbeing of Women project grant. The role of thyroid hormone on function decidual function and trophoblast interaction; Human Technology Assessment (HTA), UK. A RCT to assess the role of vesicoamniotic shunting in congenital bladder neck obstruction. SPARKS (Sports in Science) project grant: Assessment of microarray technology in prenatal diagnosis. Medical Research Council (MRC)/Examining Mechanisms(EME); The role of maternal thyroxine replacement in women with TPO antibodies in pregnancy. Birmingham Women's Hospital Research and Development Grant: Subclinical hypothyroidism and pregnancy. These active grants total £5.6 M funding (\$8.96M). He is the President-elect of the British Society of Maternal Fetal Medicine and also on RCOG Council. He is Chairman of

the National Institute of Clinical Excellence Guideline Development Group which has published its guidance on the management of Multiple Pregnancy in September 2011. He is also an invited member of the international Fetoscopy Working Group which meets annually (elected in 2005).

Gordon CS Smith, MD PhD, is Professor and Head of the Department of Obstetrics and Gynaecology, University of Cambridge, UK. He studied at Glasgow University and graduated in Medicine in 1990. He trained in Obstetrics & Gynaecology in Glasgow, obtaining sub-specialist accreditation in Maternal-Fetal Medicine in 2001. In addition to academic work, he remains active in clinical practice in Maternal-Fetal Medicine at the Rosie Hospital Cambridge. During training, he had two Wellcome Trust clinical research training fellowships: Glasgow University (1992-1993) and Cornell University, USA (1996-1999). His basic science research is focused on the control of myometrial contractility and fetal preparation for birth. His clinically orientated research focuses on the use of maternal, ultrasonic and biochemical data to determine associations with adverse pregnancy outcome. He is the principal investigator in a prospective cohort study of first pregnancies. He is a Senior Investigator of the National Institute for Health Research (UK), a Fellow of the Academy of Medical Science (UK) and has the honorary position of Clinical Professor in the Department of Obstetrics & Gynecology at UTMB Texas, USA.

Louise Laurent is an Assistant Professor in Reproductive Medicine at the University of California, San Diego and a recipient of a training fellowship from the California Institute of Regenerative Medicine, a fellowship from the NIH Reproductive Scientist Development Program, and a fellowship from the NIH/NICHD Women's Reproductive Health Research Career Development Program. She received her residency training in Obstetrics and Gynecology at UC San Diego. As a student in the laboratory of Vikas P. Sukatme, M.D., Ph.D., at the University of Chicago, she cloned and characterized EGR1, a zinc finger transcription factor. Her graduate research as a MSTP student at UCSF included a large scale mutagenesis and molecular tracking strategy to define the regions of the HIV genome necessary for viral replication in the laboratory of Patrick O. Brown, M.D. / Ph.D. As a clinical fellow, she worked with Jeanne Loring, Ph.D. at The Scripps Research Institute to delineate the expression of miRNAs in human embryonic stem cells. Her current research focuses on applying genomic and epigenomic methods to understanding the molecular regulation of pluripotency and differentiation, optimizing the preclinical and clinical utility of human pluripotent stem cells, and identifying the molecular basis of placental dysfunction in human pregnancy.

Shoo Lee is a neonatologist and health economist. He is a Professor of Paediatrics, Obstetrics & Gynaecology and Public Health, and Head of the Division of Neonatology at the University of Toronto; Paediatrician-in-Chief and Director of the Maternal-Infant Care (MICare) Research Centre at Mt. Sinai Hospital; Chief of the Department of Newborn and Developmental Paediatrics at Sunnybrook Health Sciences Centre; and The Women's Auxiliary Chair in Neonatology and Head of the Division of Neonatology at the Hospital for Sick Children. He received his medical degree from the University of Singapore, completed paediatric training at the Janeway Children's Hospital in Newfoundland and neonatal fellowship training at Boston's Children's Hospital, and received his PhD in Health Policy

(Economics) from Harvard University. He established the Canadian Neonatal Network™ and the International Neonatal Collaboration to foster collaborative research and leads the CIHR Team in Maternal-Infant Care. His research focuses on improving quality of care, patient outcomes and health care services delivery. He has received many awards for his work, including the Knowledge Translation Award from the Canadian Institutes of Health Research, the Aventis Pasteur Research Award and the Distinguished Neonatologist Award from the Canadian Paediatric Society, and the Premier Member of Honour Award from the Sociedad Iberoamericana de Neonatología.

Kurt Albertine graduated *magna cum laude* in biology from Lawrence University, Appleton, Wisconsin, in 1975. He graduated with a doctoral degree in human anatomy from Loyola University of Chicago, Stritch School of Medicine, in 1979. He received postdoctoral training in pulmonary and cardiovascular physiology at the Cardiovascular Research Institute, University of California, San Francisco (1980-83). Dr. Albertine is Professor of Pediatrics, Medicine (Adjunct), and Neurobiology & Anatomy (Adjunct) and Associate Dean of Faculty Administration at the University of Utah, School of Medicine. Dr. Albertine is Editor-in-Chief of *The Anatomical Record*, the flagship journal of the American Association of Anatomists. Dr. Albertine's research topic is acute and chronic lung disease, with emphasis on neonatal chronic lung disease. The focus of his studies is identification of molecular mechanisms that disrupt lung development in the preterm neonate who requires prolonged mechanical ventilation. Current studies are testing hypotheses about the effect of preterm birth and prolonged mechanical ventilation on the epigenetic platform that determines lung development and long-term outcomes later in life. While the primary focus is on the lung, concurrent studies are identifying the epigenetic platform in the brain, liver, and intestine. Dr. Albertine has mentored more than 100 undergraduate, medical students, residents, and fellows in his research laboratory over the past two decades. Dr. Albertine's research program has been NIH-funded since 1980.

Deborah Money is a Professor at the University of British Columbia in the Department of Obstetrics and Gynecology, located at the BC Women's Hospital, Vancouver, BC and is a subspecialist in Reproductive Infectious Diseases. Dr. Money is the Executive Director of the Women's Health Research Institute, Provincial Health Services Authority. Dr. Money was trained with a BSc in Microbiology, and an MD at UBC followed by her residency in Obstetrics and Gynecology, also at UBC, and Fellowship training in Infectious Diseases at the University of Washington. She has developed a clinical and research program in Reproductive Infectious Diseases with research focused on HIV and other viral infections in pregnancy, HPV and the HPV vaccine in the prevention of cervical cancer and most recently in genome based studies of the vaginal microbiome. She is currently the first Canadian President of the Infectious Diseases Society of Obstetrics and Gynecology (IDSOG) [a US based organization].

Mark Phillippe received his B.S. and M.D. degrees from Northwestern University in Chicago. Subsequently, he did his residency in Obstetrics & Gynecology at the Boston Hospital for Women and subspecialty fellowship in Maternal-Fetal Medicine at the Brigham & Women's Hospital in Boston. Dr. Phillippe has held faculty appointments at the Harvard Medical School, the Massachusetts Institute of

Technology and the University of Chicago (where he served as Director for the Maternal-Fetal Medicine Fellowship Program and Vice-Chair for Research). In 2001, Dr. Phillippe became the Professor & Chair for the Department of Obstetrics, Gynecology and Reproductive Sciences at the University of Vermont College of Medicine. In 2007, Dr. Phillippe earned a M.S. degree in Health Care Management (MHCM) from the Harvard School of Public Health. In addition to his clinical and administrative activities, Dr. Phillippe has been engaged in laboratory research as a physician-scientist throughout his career. With ongoing support from the NIH, his research has addressed cell signaling mechanisms, myometrial physiology and more recently the pathophysiology of influenza infection during pregnancy. Dr. Phillippe has published over 90 biomedical papers, reviews and book chapters, and he has presented over 115 scientific abstracts. He has served on multiple scientific peer review committees for the National Institutes of Health, the March of Dimes Foundation and other funding agencies, including membership on the Advisory Council for the National Institute of Child Health and Human Development (NICHD). Dr. Phillippe is a member of multiple national biomedical societies including the Society for Gynecologic Investigation, the Perinatal Research Society, the Society for Maternal-Fetal Medicine, the American Gynecologic and Obstetrical Society, the American College of Obstetrics & Gynecology, the American Society for Cell Biology, and the American College of Physician Executives.

Stephen Matthews is Professor of Physiology, Obstetrics and Gynecology and Medicine at the University of Toronto. He is also the Ernest B. and Leonard B. Smith Professor and Chair of the Department of Physiology. Professor Matthews received his undergraduate education at the University of Nottingham, and his PhD from the University of Cambridge, UK. He was appointed at the University of Toronto in 1996. His research is focused towards understanding how alterations in the fetal environment can affect developmental trajectory leading to permanent modification of endocrine function and behaviour. He is particularly interested in determining the mechanisms by which prenatal stress and fetal exposure to certain hormones can modify an individual's ability to respond to stress throughout life. His recent research has established that prenatal exposure to excess glucocorticoid can have transgenerational effects on both endocrine function and behaviour. The group is now determining the epigenetic mechanisms involved in transgenerational programming. In a second program of study, his group is investigating drug / hormone transport mechanisms in the placenta and in the fetal blood brain barrier, and developing novel treatments that modulate drug transport at these two sites. He is co-director of the MAVAN program, which follows the neurocognitive development of infants and children following adverse early experience. He is also one of the founding investigators on the MACS program that is following neurocognitive and cardiometabolic development in children exposed to glucocorticoids in pregnancy. He has published over 150 peer review scientific papers and book chapters.

2011 Meeting Sponsors

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Michael Smith Foundation for
Health Research

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