

# 32nd Annual New Developments in Prenatal Diagnosis & Medical Genetics



**Thursday, May 16<sup>th</sup>, 2024**

Join us for a live webcast of the **32<sup>nd</sup> Annual New Developments in Prenatal Diagnosis & Medical Genetics Symposium**. All guest faculty are renowned in their fields and will present on a wide-ranging array of groundbreaking topics that will impact your daily work and patient care.

**This symposium is being recorded.** If you experience information overload or have a timing conflict, you can watch any or all the recorded lectures after the symposium. The recording will be available for one month afterwards.

### **Course Director:**

**David Chitayat, MD, FACMG, FCCMG, FRCPC**

Professor, Depts. of Paediatrics, Molecular Genetics, Obstetrics & Gynaecology, Laboratory Medicine and Pathobiology, University of Toronto  
Head, The Prenatal Diagnosis and Medical Genetics Program, Mount Sinai Hospital  
Staff, Division of Clinical and Metabolic Genetics,  
The Hospital for Sick Children  
Medical Director, The MSc Program in Genetic Counseling, University of Toronto

**Registration deadline:** Sun. May 5th

### **Accreditation Information:**

THIS EVENT HAS BEEN SUBMITTED TO THE NATIONAL SOCIETY OF GENETIC COUNSELORS (NSGC) FOR APPROVAL OF CATEGORY 1 CEUS. THE AMERICAN BOARD OF GENETIC COUNSELING (ABGC) ACCEPTS CEUS APPROVED BY NSGC FOR PURPOSES OF RECERTIFICATION. APPROVAL FOR THE REQUESTED CEUS AND CONTACT HOURS IS CURRENTLY PENDING

### **PRICING:**

#### **Early Bird Deadline: Fri. Apr. 12<sup>th</sup>**

Physicians: \$130  
Genetic Counsellors: \$100  
Students: \$50

#### **After April 12<sup>th</sup>**

Physicians: \$155  
Genetic Counsellors: \$125  
Students: \$75

(pricing is subject to Eventbrite fees & HST)

## Schedule

8:15 **Welcome & Introductions**

*Dr. David Chitayat*

8:20 *Dr. Mathew Sermer*, Chief, Department of Obstetrics and Gynecology, Mount Sinai Hospital, Professor, University of Toronto

8:25 *Dr. Roberto Mendoza*, Head, Division of Clinical and Metabolic Genetics, The Hospital for Sick Children, Professor, University of Toronto

### Session ONE

8:30 **High-Resolution and Non-Invasive Fetal Exome Screening**

*Dr. Michael E. Talkowski*, Director, Center for Genomic Medicine, Associate Professor of Neurology, Harvard Medical School, Boston

9:30 **Lower Urinary Tract Obstruction: From Prenatal Ultrasound Features to Postnatal Outcomes**

*Dr. Juliane Richter*, Research Fellow, Paediatric Urology, The Hospital for Sick Children, Toronto Department of Urology, Uro-oncology, Robot-Assisted and Specialized Surgery, University of Cologne, Cologne, Germany

10:30 Break (15 minutes)

### Session TWO

10:45 **Fetal Lymphatic Abnormalities**

*Dr. Carrie Shawber*, Associate Professor of Reproductive Sciences (in Obstetrics/Gynecology and Surgery), Columbia University Medical Center, New York

11:30 **Prenatal Sequencing of Fetal Anomalies: What Have we Learned and What Does it Add**

*Dr. Ronald Wapner*, Professor, Director of Reproductive Genetics and Professor of Obstetrics and Gynecology, Columbia University Irving Medical Center, New York

12:30 Lunch Break (30 minutes)

### Session THREE

1:00 **100,000 Genomes Pilot on Rare-Disease Diagnosis in Health Care**

*Professor Sir Mark Caulfield* Professor of Clinical Pharmacology, Vice Principal for Health, Faculty of Medicine and Dentistry, Queen Mary University of London, Director of the NIHR Barts, Biomedical Research Centre, London

2:00 **Mapping the Placenta Using Single Cell Genomics**

*Dr. Brian J Cox*, Associate Professor, Department of Physiology, University of Toronto, Toronto

3:00 Refreshment Break (15 minutes)

### Session FOUR

3:15 **Cell Type Evolution in the Primate Brain**

*Dr. Alex Pollen*, Assistant Professor, Neurology, University of California, San Francisco

4:00 **The Genetics of Epilepsy**

*Dr. Gregory Costain*, Clinician-Scientist, Division of Clinical and Metabolic Genetics, The Hospital of Sick Children, Assistant Professor, Department of Pediatrics, University of Toronto, Toronto

5:00 Closing Remarks & Adjournment