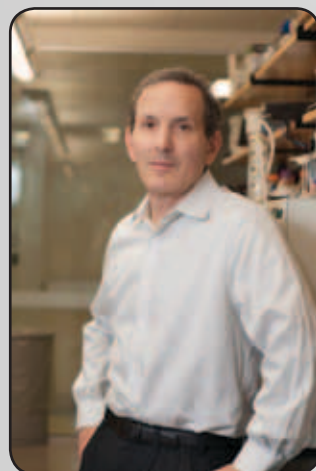


## 2015 Research Award Recipients

**FELLOW OF THE ROYAL SOCIETY  
OFFICER OF THE ORDER OF CANADA  
MANPEI SUZUKI INTERNATIONAL PRIZE FOR DIABETES  
RESEARCH, MANPEI SUZUKI DIABETES FOUNDATION**



### Dr. Daniel Drucker

is a world leader in the translational biology of gastrointestinal hormones. His pioneering studies of gut hormone action have enabled development of three new classes of medications for the treatment of diabetes, obesity and short bowel syndrome (SBS), including teduglutide, the first glucagon-like-peptide-2 analogue approved for treatment of SBS. Dr. Drucker is the first Canadian researcher to be honoured with the Manpei Suzuki International Prize, the world's most valuable prize for diabetes research, and was appointed to the Order of Canada "for his contributions to the development of medicines used around the world to treat diabetes and intestinal disorders."

**Daniel J. Drucker, OC, MD, FRS, FRSC, FRCPC**  
Professor, Department of Medicine  
Senior Investigator, Lunenfeld-Tanenbaum  
Research Institute of Sinai Health System

**INTERNATIONAL MEMBER OF THE  
NATIONAL ACADEMY OF MEDICINE  
FELLOW OF THE CANADIAN ACADEMY OF ENGINEERING**

### Dr. Michael Sefton

is internationally recognized for his field-leading research in tissue engineering and regenerative medicine. He received the rare honour of election to the United States' National Academy of Medicine, formerly the Institute of Medicine, in recognition of his outstanding achievements, including his pioneering use of synthetic polymers for tissue engineering. Members of the NAM advise the U.S. government and international community on critical issues in health, medicine and related policy. Dr. Sefton's current research focuses on the challenge of vascularization, the construction or growth of blood vessels vital to engineered tissue.



**Michael Sefton, ScD, FRSC, FCAE**  
University Professor,  
Department of Chemical Engineering & Applied Chemistry  
and Institute for Biomaterials and Biomedical Engineering

**2015 CANADA GAIRDNER WIGHTMAN AWARD  
COMPANION OF THE ORDER OF CANADA**



### Dr. Janet Rossant

received the prestigious Canada Gairdner Wightman Award in recognition of her global leadership in stem cell biology and policy, her remarkable contributions to developmental biology research, and her achievements as Chief of Research at The Hospital for Sick Children. Dr. Rossant's research on genes that control embryonic development has introduced new research techniques and led to the discovery of a novel placental stem cell type. She was appointed Companion of the Order of Canada "for advancing the global understanding of embryo development and stem cell biology, and for her national and international leadership in health science."

**Janet Rossant, CC, PhD, FRS, FRSC**  
University Professor, Department of Molecular Genetics  
Senior Scientist, SickKids Research Institute,  
The Hospital for Sick Children

# BOUNDLESS RECOGNITION

**L'ORÉAL-UNESCO FOR WOMEN IN SCIENCE  
INTERNATIONAL AWARD**

### Dr. Molly Shoichet

has been named the L'Oréal-UNESCO For Women in Science 2015 Laureate for North America. The valuable award recognizes the contributions of eminent women in science around the world. Dr. Shoichet received the award for her pioneering biomaterials research, which focuses on the design of hydrogels that can effectively deliver stem cells and drugs to different areas of the body. These hydrogels protect transplanted stem cells, giving them more time to integrate to treat injuries to the brain and spinal cord, and can be used to precisely time drug delivery and release.



**Molly Shoichet, OOnt, PhD, FAAAS, FRSC, FCAE, FCAHS**  
University Professor,  
Department of Chemical Engineering & Applied Chemistry  
and Institute for Biomaterials and Biomedical Engineering

**OFFICER OF THE MOST EXCELLENT ORDER  
OF THE BRITISH EMPIRE**

### Dr. Agostino Pierro

was awarded the title of Officer of the Order of the British Empire in recognition of his distinguished contributions to the field of paediatric surgery. Dr. Pierro has been an innovator in the field, introducing new minimally invasive surgical procedures, leading international clinical trials, and investigating the use of stem cells for treatment of intestinal conditions. His current research focuses on understanding and treating necrotizing enterocolitis, a leading cause of death in premature infants.



**Agostino Pierro, OBE, MD, FRCS (Engl), FRCS (Ed), FAAP**  
Professor, Department of Surgery  
Senior Scientist, SickKids Research Institute, and Head of  
General and Thoracic Surgery, The Hospital for Sick Children

**CLAUDE JACQUILLAT AWARD  
FOR CANCER RESEARCH, FRANCE  
DR. JOSEPH PATER EXCELLENCE IN CLINICAL TRIALS  
RESEARCH AWARD, NCIC CLINICAL TRIALS GROUP**



### Dr. Frances Shepherd

is internationally recognized for her leadership of clinical trials that have changed the standard of care for lung cancer treatment, including Phase III studies spanning North America and Europe and national and local Phase I and II trials. Her research has led to significant breakthroughs in therapies for non-small cell lung cancer, and she has fostered the development of personalized approaches to cancer treatment, lung cancer tumour banks and increased translation of basic research related to lung cancer.

**Frances A. Shepherd, OOnt, MD, FRCPC**  
Professor, Department of Medicine  
Scott Taylor Chair in Lung Cancer Research and  
Senior Staff Physician, Princess Margaret Cancer Centre, UHN

**MARGOLESE NATIONAL BRAIN DISORDERS PRIZE, UBC  
OFFICER OF THE ORDER OF CANADA  
ROBERT L. NOBLE PRIZE, CANADIAN CANCER SOCIETY**

### Dr. James Rutka

was awarded the Margolese National Brain Disorders Prize for his achievements in neurosurgery research and practice. Dr. Rutka has created widely-used human brain tumour cell lines, identified molecular mechanisms by which brain tumours invade healthy brain tissue, and created a tumour classification system for medulloblastomas. He has developed surgical techniques for identifying and removing tumours and for treating children with epilepsy. Dr. Rutka was appointed to the Order of Canada "for his contributions to advancing treatment for pediatric brain tumours and for his international leadership in neurosurgery."



**James Rutka, OC, OOnt, MD, PhD, FRCS, FACS, FAAP, FAANS, FRSC, FCAHS**  
RS McLaughlin Professor and Chair, Department of Surgery  
Senior Scientist and Co-Director, Arthur and Sonia Labatt  
Tumour Research Centre, SickKids Research Institute, and  
Neurosurgeon, The Hospital for Sick Children

**FOREIGN HONORARY MEMBER OF THE  
AMERICAN ACADEMY OF ARTS AND SCIENCES**

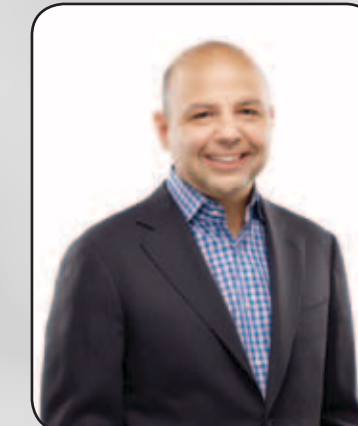


### Dr. David MacLennan,

a biochemist, physiologist and geneticist, is internationally recognized for his studies of how calcium is released from a store within muscle cells to initiate muscle contraction and returned to the store to initiate relaxation, thereby controlling movement. His research on the proteins and genes involved in these processes has led to important insights into muscle diseases such as dilated cardiomyopathy and malignant hyperthermia (MH), a life-threatening response to general anaesthetics. He developed diagnostic tests to enable safer treatment for MH-susceptible patients.

**David H. MacLennan, OC, OOnt, PhD, FRS, FRSC**  
University Professor Emeritus, Banting and Best  
Department of Medical Research

**PAUL MARKS PRIZE FOR CANCER RESEARCH,  
MEMORIAL SLOAN KETTERING CANCER CENTER  
FELLOW OF THE ROYAL SOCIETY OF CANADA**



### Dr. Daniel Durocher

has won the biennial Paul Marks Prize for his research on "how cells maintain the integrity of their genomes, and especially how they deal with a particular type of damage called the DNA double-strand break." Dr. Durocher studies how cells detect and coordinate the repair of double-strand breaks, which can cause chromosome rearrangements and mutations that lead to cancer. His recent work examines how mutations in the BRCA1 protein, which are linked to breast and ovarian cancer, may affect cells' ability to respond to DNA damage and play a role in chemotherapy resistance.

**Daniel Durocher, PhD, FRSC**  
Professor, Department of Molecular Genetics  
Assistant Director of Biomedical Research,  
Lunenfeld-Tanenbaum Research Institute of Sinai Health System

**COLVIN PRIZE FOR OUTSTANDING ACHIEVEMENT  
IN MOOD DISORDERS RESEARCH,  
BRAIN & BEHAVIOR RESEARCH FOUNDATION**

### Dr. Trevor Young

received the prestigious Colvin Prize for his research on the molecular changes to brain structure and function that lead to bipolar disorder. The prize is awarded to an outstanding scientist whose work "gives particular promise for advancing our understanding of affective illness or its basic brain mechanisms that will lead to new treatment approaches." Dr. Young uses postmortem brain samples to study fundamental pathways linked to bipolar disorder, which may provide new targets for mood-stabilizing drugs and have the potential to lead to a new biomarker for the disorder.



**L. Trevor Young, MD, PhD, FRCPC, FCAHS**  
Dean, Faculty of Medicine  
Vice Provost, Relations with  
Health Care Institutions  
Professor, Department of Psychiatry