

### Wednesday October 28 Morning Program

- 9:00am-12:45pm** **Stem Cells, Disease Mechanisms and Future Therapies**  
In collaboration with the McEwen Centre for Regenerative Medicine  
*Macleod Auditorium, University of Toronto*  
Co-Chairs: Dr. Janet Rossant, Hospital for Sick Children, Toronto, and Dr. Gordon Keller, Director, McEwen Centre for Regenerative Medicine, UHN, Toronto
- 9:00-9:30am** **Induction of pluripotency by defined factors**  
Dr. Shinya Yamanaka, Professor, Department of Stem Cell Biology, Institute for Frontier Medical Sciences, Kyoto University, Japan
- 9:30-10:00am** **Directed differentiation of pluripotent stem cells to functional tissues**  
Dr. Gordon Keller, Director, McEwen Centre for Regenerative Medicine, UHN, Toronto
- 10:00-10:30am** **Transposon-mediated reprogram provides a powerful exploratory tool for understanding stem cell induction**  
Dr. Andras Nagy, Senior Investigator, Samuel Lunenfeld Research Institute, Principal Investigator, McEwen Centre for Regenerative Medicine, Canada Research Chair in Stem Cell and Regeneration

- 10:30-10:45am** **Coffee Break**
- 10:45-11:15am** **Stem cells of the intestine**  
Dr. Mario Capecchi, Distinguished Professor of Human Genetics and Biology, University of Utah School of Medicine
- 11:15-11:45am** **The roles of small RNAs in stem cells**  
Dr. Phillip Sharp, Massachusetts Institute of Technology
- 11:45am-12:15pm** **Adult neurogenesis and the formation of social memories**  
Dr. Samuel Weiss, Professor, Cell Biology & Anatomy and Pharmacology & Therapeutics, University of Calgary School of Medicine
- 12:15-12:45pm** **On being a scientist for 60 years**  
Dr. Oliver Smithies, Excellence Professor of Pathology and Laboratory Medicine, University of North Carolina, Chapel Hill

### Wednesday October 28 Afternoon Program

- 1:15-4:45pm** **Gairdner Global Health Symposium**  
*Dalla Lana School of Public Health, University of Toronto*  
*155 College Street, 6th Floor*
- 1:15-1:25pm** **Introduction & Welcome**  
Dr. John Dirks, President and Scientific Director, Gairdner Foundation  
Dr. Jack Mandel, Director, DLSPH, University of Toronto
- 1:25-1:40pm** **The Global Health Stage**  
**What's global health and why is it important?**  
Dr. Jeff Koplan, Director of Global Health, Emory University
- 1:40-1:55pm** **Innovation and access in global health**  
Dr. Tachi Yamada, President of Global Health Program, Gates Foundation, Seattle
- 1:55-2:10pm** **Building capacity**  
Dr. Mark Walport, Director, Wellcome Trust, UK
- 2:10-2:25pm** **Global Health: Why Canada should care and what Canada should do**  
Dr. Peter Singer, Director, McLaughlin-Rotman Centre for Global Health, UHN and University of Toronto
- 2:25-2:45pm** **Discussion**
- 2:45-3:00pm** **Break**
- 3:00-3:20pm** **The Challenge of Chronic Disease**  
**Burden of cancer associated with infectious agents in developing countries**  
Dr. Nubia Muñoz, Inaugural Canada Gairdner Global Health Award recipient, The Catalan Institute, Barcelona
- 3:20-3:35pm** **What is science for anyway?**  
Dr. John Sulston, Cambridge, UK
- 3:35-3:50pm** **The evolving global vaccine landscape**  
Margaret G. McGlynn, President, Merck Vaccines, Merck & Company Inc.
- 3:50-4:05pm** **Death and tobacco taxes**  
Dr. Prabhat Jha, Director, Centre for Global Health Research, Li Ka Shing Knowledge Institute, St Michael's Hospital
- 4:05-4:20pm** **Halving adult mortality worldwide**  
Dr. Richard Peto, Professor of Medical Statistics and Epidemiology, Co-Director, CTSU, Oxford University
- 4:20-4:40pm** **Discussion**  
Chair: Dr. Kiyoshi Kurokawa, National Graduate Institute for Policy Studies, Japan
- 4:40-4:45pm** **Closing** Dr. John Dirks

- The Cell: An Endless Frontier**  
*Macleod Auditorium, University of Toronto*
- 1:30-1:40pm** **Introduction**
- 1:40-2:00pm** **How cells - and organisms - respond to perturbing their telomere maintenance**  
Dr. Elizabeth Blackburn, Morris Herzstein Endowed Professor in Biology & Physiology, Department of Biochemistry & Biophysics, University of California, San Francisco
- 2:00-2:20pm** **The cellular machinery of protein folding: Molecular chaperones in health and disease**  
Dr. Ulrich Hartl, Max Planck Institute for Biochemistry, Martinsried, Germany
- 2:20-2:40pm** **Roles of ubiquitin-mediated protein degradation in cellular regulation**  
Dr. Avram Hershko, Technion Institute of Technology, Haifa
- 2:40-2:55pm** **Coffee Break**
- 2:55-3:15pm** **Genetic control of programmed cell death in C. elegans**  
Dr. Bob Horvitz, David H. Koch Professor of Biology, Massachusetts Institute of Technology, and Investigator, Howard Hughes Medical Institute
- 3:15-3:35pm** **Small RNAs in every corner of the cell**  
Dr. Victor Ambros, Professor, Department of Molecular Medicine, University of Massachusetts Medical School
- 3:35-3:55pm** **A C. elegans endocrine system that couples detection of xenobiotic drugs to regulation of reproduction and longevity**  
Dr. Gary Ruvkun, Professor of Genetics, Harvard Medical School
- 3:55-4:15pm** **Transcriptional regulatory mechanisms in animal cells**  
Dr. Robert G. Roeder, Arnold and Mabel Beckman Professor, Laboratory of Biochemistry and Molecular Biology, The Rockefeller University, New York
- 4:15-4:35pm** **Topic TBA**  
Dr. Richard Axel, Investigator, Howard Hughes Medical Institute and University Professor, Columbia University
- 4:35pm** **Concluding Remarks**

## Thursday October 29 Program

	<p><b><u>The Charles Hollenberg Symposium - 2009 Gairdner Award Recipients Lectures</u></b>  <i>Macleod Auditorium, University of Toronto</i></p>	<p><b>11:30-12:00pm</b> <b>On the tribulations of not performing randomized trials</b>          Dr. David Sackett, Professor Emeritus, Clinical Epidemiology &amp; Biostatistics, McMaster University, Hamilton, ON</p>
<b>9:00am</b>	<p><b>Welcoming remarks</b>          Dr John Dirks, President &amp; Scientific Director, Gairdner Foundation          Chair: Catharine Whiteside, Dean of Medicine, University of Toronto</p>	<p><b>12:00-1:30pm</b> <b>Lunch Break</b></p>
<b>9:15 -9:45am</b>	<p><b>Protein homeostasis in health and disease</b>          Dr. Peter Walter, Professor, Department of Biochemistry, University of California, San Francisco, and Investigator, Howard Hughes Medical Institute</p>	<p><b>1:30-1:45pm</b> <b>Introduction of the inaugural Canada Gairdner Global Health Award</b>          Dr. John Dirks, President and Scientific Director, Gairdner Foundation</p>
<b>9:45-10:15am</b>	<p><b>The unfolded protein response: to mammals and beyond</b>          Dr. Kazutoshi Mori, Professor, Department of Biophysics, Graduate School of Science, Kyoto University, Japan</p>	<p><b>1:45-2:15pm</b> <b>From causality to prevention: The case of cervical cancer</b>          Dr. Nubia Muñoz, Emeritus Professor, National Cancer Institute, Bogota, Colombia, and Visiting Scientist, Catalan Institute of Oncology, Barcelona</p>
<b>10:15-10:30am</b>	<p><b>Coffee Break</b></p>	<p><b>2:15-2:45pm</b> <b>Induction of pluripotency by defined factors</b>          Dr. Shinya Yamanaka, Professor, Department of Stem Cell Biology, Institute for Frontier Medical Sciences, Kyoto University, Japan</p>
<b>10:30-11:00am</b>	<p><b>The systems architecture of the bacterial cell cycle</b>          Dr. Lucy Shapiro, Director, Beckman Center for Molecular &amp; Genetic Medicine, and Professor, Developmental Biology, Stanford University School of Medicine</p>	<p><b>2:45- 3:15pm</b> <b>Humanity's genes</b>          Dr. Sydney Brenner, Distinguished Professor, The Salk Institute, San Diego</p>
<b>11:00-11:30am</b>	<p><b>Developmental biology of a simple organism</b>          Dr. Richard Losick, Professor, Microbial Development &amp; Gene Regulation, Harvard University</p>	

## Friday October 30 Program

### The Gairdner –Nobel Laureate Forums

*Convocation Hall, University of Toronto*

(Free but please register at [www.gairdner.org](http://www.gairdner.org))

The first three sessions will each present a moderated panel discussion amongst the scientists, followed by Q&A from the audience.

<b>8:45-10:15am</b>	<p><b>Attack and repulsions: Infections and the immune system</b>          Dr. David Baltimore (Moderator), Robert Andrews Millikan Professor of Biology, California Institute of Technology</p> <p>Dr. Ralph Steinman, Henry G. Kunkel Professor and Senoir Physician, The Rockefeller University, New York</p> <p>Dr. Emil Unanue, Paul &amp; Ellen Lacy Professor, Department of Pathology &amp; Immunology, Washington University School of Medicine, St. Louis</p> <p>Dr. Rolf Zinkernagel, Professor, University of Zurich</p>	<b>2:00-3:30pm</b>	<p><b>Cancer: Can new insights into biology yield better results?</b>          Dr. Michael Bishop (Moderator), Chancellor, University of California, San Francisco</p> <p>Dr. Harald zur Hausen, Professor Emeritus, German Cancer Research Institute, Heidelberg, Germany</p> <p>Dr. Dennis Slamon, Chief, Department of Hematology, Oncology, University of California, Los Angeles</p> <p>Dr. Bob Weinberg, Professor of Biology, Member, Whitehead Institute, Massachusetts Institute of Technology</p> <p>Dr. Barry Marshall, International Research Foundation for Helicobacter and Intestinal Immunology, Virginia</p>
<b>10:30-12:00pm</b>	<p><b>The metabolome: Food and fuel for thought</b>          Dr. Joe Goldstein (Moderator), Julie and Louis A. Beecherl Distinguished Chair in Biomedical Science, Southwestern Medical Center, University of Dallas</p> <p>Dr. Jeff Friedman, Marilyn M. Simpson Professor, The Rockefeller University, New York</p> <p>Dr. Tony Pawson, University Professor, Program in Molecular Biology &amp; Cancer, Samuel Lunenfeld Research Institute, Toronto</p> <p>Dr. Michael Brown, Paul J. Thomas Chair in Medicine, Southwestern Medical Center, University of Texas, Dallas</p> <p>Dr. Ron Evans, Professor, Salk Institute for Biological Studies, La Jolla</p>	<b>7:00-8:30pm</b>	<p><b>The personalized genome: Do I want to know? Audience Q &amp; A</b>          Dr. Michael Hayden, Director and Senior Scientist, Centre for Molecular Medicine and Therapeutics, University of British Columbia</p> <p>Dr. Sydney Brenner, Distinguished Professor, The Salk Institute, San Diego</p> <p>Charles Sabine, Award-winning NBC News correspondent and carrier of the gene for Huntington's Disease</p>

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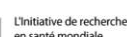
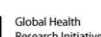
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