



Dear educational colleague,

SANOFI AVENTIS BIOTALENT CHALLENGE and the MERCK “EXPLORING MINDS” BIOSCIENCE LECTURES AND WORKSHOPS

This year’s group of young investigators have researched topics as diverse as the genetic engineering of pathogen resistance in plants and the practicality of using fruit and vegetable extracts against H. pylori, the causative agent of ulcers.

The SABC continues to offer a unique opportunity for curious and creative students to have a “graduate level” research experience under the guidance of professional scientists. Nineteen projects have advanced to the competition this year.

The Toronto student teams will compete for \$12,000 in cash prizes and scholarships at, Ryerson University on April 19 and 20, 2011. The national competition will be held in Ottawa later in May.

Once again, Bioscience Education Canada is offering free bioscience lectures and workshops to high school classes accompanied by their teachers. This program has been made available through the generous sponsorship of Merck, a company that has been a long time supporter of our educational outreach for youth. The lectures and workshops will take place at Ryerson University in the George Vari Engineering and Computing Centre on Tuesday April 19th and Wednesday April 20th, 2011.

Registration for these lectures must be done through the Bioscience Education Science office at 416-640-0206 (info@bioscienceeducation.ca). We ask that you try to book your classes for two lectures and a workshop. Further information and lecture availability can be found on the SABC website (www.sanofibiotalentchallenge.ca) and on the Bioscience Education Canada website (www.bioscienceeducation.ca).

Merck "Exploring Minds" Lectures High School Lecture Schedule Ryerson University		
Tuesday, April 19, 2011		
10:00 a.m.	"Stem Cells: Promise and Problems" Mr. Paul Cassar, Institute of Medical Science, University of Toronto Room ENG103 (capacity 300)	"Who are poo? How CSI technology is used to reconstruct microbiological communities in solid waste from treatment plants" Dr. Kimberley Gilbride, Department of Chemistry and Biology, Ryerson University Room ENGLG02 (capacity 90)
11:00 a.m.	"Rocket science is for kids. Cancer research is for you" Dr. Michelle Brazas, Ontario Institute for Cancer Research Room ENG103 (capacity 300)	NEW! "Superbugs: A return to the antibiotic dark ages?" Ms. Patricia Taylor, Ph.D. Candidate Dept. of Biochemistry and Biomedical Sciences McMaster University
Noon	"DNA Barcoding for Biodiversity Analysis" Dr. Mehrdad Hajibabaei, Biodiversity Institute of Ontario & Integrative Biology, University of Guelph Room ENG103 (capacity 300)	"Crime Science" Ms. Barbara Reid, DNA Technologist, Centre of Forensic Science Room ENGLG02 (capacity 90)
1:00 p.m.	"Mighty microbes: turning trash into cash" Dr. Emma Master Dept. of Chemical Engineering, University of Toronto Room ENG103 (capacity 300)	"Can my computer protect me against the flu?" Dr Catherine Beauchemin, Department of Physics, Ryerson University Room ENGLG02 (capacity 90)
Wednesday, April 20, 2011		
10:00 a.m.	"The Future of Medicine – your health and your genome" Dr. Alison Symington, Ontario Genomics Institute Room ENG103 (capacity 300)	"When a picture is worth a thousand words - how macromolecular structures advance our understanding of biology" Dr. Logan Donaldson, Department of Biology, York University Room ENGLG02 (capacity 90)
11:00 a.m.	"Crime Science" Ms. Barbara Reid, DNA Technologist, Centre of Forensic Science Room ENG103 (capacity 300)	"Biomedical ultrasound and photoacoustics: using ultra-sound and highly illuminating techniques to better understand tissue structure and function". Dr Michael Kolios, Department of Physics, Ryerson University Room ENGLG02 (capacity 90)
Noon	"Life is a Hammerfest: How to extract the most out of 24h. Exercise as the elixir of life." Dr. Mark Tarnopolsky, McMaster University Medical Center Room Room ENG103 (capacity 300)	
1:00 p.m.	The human body: Solving the 100,000,000,000,000 cell puzzle Dr Roberto Botelho, Department of Chemistry and Biology, Ryerson University Room ENG103 (capacity 300)	

Merck "Exploring Minds" Workshops Schedule Ryerson University			
Time	Tuesday, April 19, 2011		
10:00 a.m.		"FRONTIERS IN GENOMICS" Faculty, Department of Biological Sciences and Applied Chemistry, Seneca College (Capacity 50)	"BIRTH WEIGHT MEASUREMENT IN MIDWIFERY AND MOBILE HEALTH CARE DELIVERY" Biomedical Engineering Dr James Smith and Jamil Jivraj, Ryerson University (Limited Capacity) 1 1/2 hrs
11:00 a.m.	"MICROARRAYS" Ms Maria Calimano, Centennial College (Capacity 50)	"A MICROBIAL MYSTERY" Faculty, Department of Biological Sciences and Applied Chemistry, Seneca College (Capacity 50)	LUNCH
NOON	LUNCH		
1:00 p.m.		"CSI AT HOME AND IN THE LAB" Faculty, Department of Biological Sciences and Applied Chemistry, Seneca College (Capacity 50)	"BIRTH WEIGHT MEASUREMENT IN MIDWIFERY AND MOBILE HEALTH CARE DELIVERY" Biomedical Engineering Dr James Smith and Jamil Jivraj, Ryerson University (Limited Capacity) 1 1/2 hrs
Wednesday, April 20, 2011			
10:00 a.m.			"BIRTH WEIGHT MEASUREMENT IN MIDWIFERY AND MOBILE HEALTH CARE DELIVERY" Biomedical Engineering Dr James Smith and Jamil Jivraj, Ryerson University (Limited Capacity) 1 1/2 hrs
11:00 a.m.		"USING BIOINFORMATICS TO ANALYZE HUMAN DISEASE" Dr. Paula Demacio, Centennial College (Capacity 36)	LUNCH
NOON	LUNCH		
1:00 p.m.		"USING BIOINFORMATICS TO ANALYZE HUMAN DISEASE" Dr. Paula Demacio, Centennial College (Capacity 36)	"BIRTH WEIGHT MEASUREMENT IN MIDWIFERY AND MOBILE HEALTH CARE DELIVERY" Biomedical Engineering Dr James Smith and Jamil Jivraj, Ryerson University (Limited Capacity) 1 1/2 hrs