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Welcome! Bienvenue!

Welcome to a one-of-a-kind biomedical career workshop that presents much more than "What you can do with a PhD." We hope this workshop helps students, postdoctoral fellows and scientific professionals to pursue their scientific curiosities, ask the global questions to help the world, be bold enough to pursue leadership positions, communicate to innovate and develop the transitional skills required for a successful scientific career in or out of academia.

This workshop brings you insight into all of the "big" career transitions that happen throughout life, from the first job entry after training, mid-career shifts, advanced administration roles, and retirement years through parenthood, relationships, aging parents and passions outside the bench. Over thirty-five guest speakers share their secrets and wisdom about their career choices and more importantly, the how and why of their decision-making process based on their lives in and out of the job.

What started out as an ideal workshop on paper is becoming a reality today. I hope this in itself inspires all trainees. Most PhDs are not just scientists, but are leaders and innovative thinkers. PhDs have the ability and potential to create their own jobs. Go for it!

Thank you to all the speakers for contributing your expertise and time. Thanks to Dr. Reinhart Reithmeier, for supporting my ideas and providing me the opportunity to implement them. My team, Katelyn Darowski, Matthew Cheng, Kristina Han, all of you have been through this entire process from the initial proposal. Thanks for helping above and beyond. Thanks to BGSU and IGSA for your volunteers. Dr. Justin Nodwell and Dr. J.C. Zúñiga-Pflücker, merci for your support. Thank you much to all of our sponsors.

Enjoy the day, explore new ideas and best of luck with all of your pursuits!

H. Nana Lee, PhD



June 28th, **2013** Northrop Frye Hall, Victoria College, U of Toronto

8:30 - 8:45 am Registration

8:45 - 9:00 am Opening Remarks

Morning Plenary:

9:00 - 10:00 am How to Succeed in Academia

10:00 - 11:00 am How to Optimize your Scientific Career

11:00 - noon Successful Careers Outside Academia

noon - 1:30 pm Lunch Networking with Guests

Concurrent Sessionals (Optional Switch at 2:15pm):

1:30 - 3:00 pm Research Ethics and Intellectual Property Law

Importance of Mentorship

Choosing the Best Post-Doc and Preparing for

the Job After

Global Trends/Innovation

3:00 - 3:15 pm Break

Afternoon Plenary:

3:15 - 4:30 pm Career Transitions Throughout Life 4:30 - 5:00 pm Keynote Matt Buist, VP of LSO **Program**: Each speaker will present their career path, what the current job involves and the decision making process they went through at each transitional point. They will also cover some of the topics and questions mentioned below.

Success in Academia: Navigating through competitive academia, lab management, collaborations, grants, teaching, and administration. How would you optimize your chances of achieving a successful academic position? What are some of the grants available to you after graduation? How did these successful academics achieve their appointments? What are their secrets?

Optimizing Your Scientific Career: How to cultivate essential skills during graduate school and throughout their careers, such as problem-solving, project management, communications, leadership, multi-tasking, collaborations, perseverance, analytics, and initiative. How would to identify your weaknesses and strengthen these skills. Why are you in graduate school? What do you hope to achieve during your training? Which skills would you like to develop? How do you think you can cultivate these skills during graduate school? How do you find your career aspirations? How do you keep developing these skills?

Success Outside Academia: Nonacademic pathways available, how to find the hidden job market, how to land the job and how to succeed as a nonacademic scientist. How would you shift a postdoctoral fellowship geared towards a nonacademic career? What is the hidden job market? How would you find out more about nonacademic jobs?

Career Transitions Throughout Life: Skills to develop for career transitions throughout life's changes such as the effects of relationships, finances, marriage, children, aging parents, re-entry after childrearing, company restructuring, grant losses, and retirement. If money was not an issue, what would you research on and why? How did you transition with childrearing or other family responsibilities? If you decided to be a full-time caregiver, how would you stay connected to science? What are some of the career issues facing PDFs and scientists today?

Research Ethics and Intellectual Property: What ethical issues do you see arising from any part of your research? (as a student or PDF) What kind of international standard should a researcher be aware of? What issues arise from intellectual property, copyright, patents, publications, and collaborations?

What should the industry scientist be aware of on a daily basis (good notebook keeping, data storage) to use the data for patent or IP issues in the future?

Choosing the Best PDF and Preparing for the Job After: Special PDF training alternatives, what a PI looks for, what a current PDF plans are. How would you shift from an academic PDF to apply for nonacademic job after? What are the differences between the nonacademic and academic job search? How do you prepare the CV/resume accordingly?

Mentorship: Importance of mentorship, impact of mentorship in future career, mentorship programs. Importance of the PI/student or PI/postdoctoral fellow relationship, how to find a mentor, training the future mentor/PI. If you were a PI/mentor, how would you help your student with a career plan if they wanted to pursue a) academia or b) outside academia? How could students find mentors outside the department?

Global Trends and Innovation: The pathway to marketability, relating to innovate, how to use a recruiting firm, the latest trends in Toronto and global biotech. If you had a scientific breakthrough with your research, what are the issues and concerns with getting it to market? Which causes funded by the Bill and Melinda Gates Foundation or another NPO interest you? How do you want to make a difference with your science and interests?

Plenary Speakers

Opening Remarks



Dr. Reinhart Reithmeier, PhD – Professor, former Chair of Dept of Biochemistry at University of Toronto

Reinhart Reithmeier is a Professor in the Department of Biochemistry at the University of Toronto, where he was Chair from 2002-13. An award-winning lecturer, Dr. Reithmeier is also known internationally for his research on the role of membrane proteins in health and disease, with a focus on

anion transporters. Evolving graduate education to meet the needs and career aspirations of today's students is one of his top priorities.



Dr. Avrum Gotlieb, MDCM, FRCPC Interim Vice Dean, Graduate and Life Sciences Education, Senior Academic Advisor to the Dean, University of Toronto Professor Avrum I Gotlieb, founding Chair of the Department of Laboratory Medicine and Pathobiology (LMP), Faculty of Medicine, University of Toronto, (1997-2008) is currently Interim Vice Dean, Graduate and Life Sciences Education and

Senior Academic Advisor to the Dean. He is a former President of the American Society for Investigative Pathology and served as Vice-President for Science Policy for the Federation of American Societies of Experimental Biology (FASEB).

As Chair he initiated an innovative and unique undergraduate arts and science Specialist Program in Pathobiology. Over the years student mentorship has been an important part of his activities. He has presented career talks at several national and international scientific meetings and venues.

Professor Gotlieb's research interests include atherosclerosis and valvular heart disease. He is the past co-Editor of Cardiovascular Pathology, and serves on the Editorial Board of The American Journal of Pathology (AJP) and Laboratory Investigation.

How to Succeed in Academia



Dr. Amy Caudy, PhD – Assistant Professor, Terrence Donnelly Centre for Cellular and Biomolecular Research and the Dept of Molecular Genetics

Amy Caudy graduated summa cum laude with a degree in biochemistry from Washington University in St. Louis, working with Craig Pikaard on RNA polymerase I transcription. She earned her PhD from the Watson School

of Biological Sciences at Cold Spring Harbor Laboratory, working with Gregory Hannon identifying protein components of the RNAi complex RISC. Amy then joined John Atkinson's laboratory at Washington University School of Medicine to T regulatory cells as a Ruth Kirchstein NRSA Postdoctoral Fellow. In 2005, she became a Lewis-Sigler Fellow at the Lewis-Sigler Institute for Integrative Genomics at Princeton University. There, she turned to the study of metabolism. As an assistant professor at the University of Toronto, the focus of her laboratory is the discovery of novel metabolic pathways; one recent success has been the discovery of a new pathway for the production of ribose. Her work along the way has included the development of genomescale methods for experiments in yeast and other organisms. Along with James Watson, Amy is an author of the textbook, Recombinant DNA: Genes and Genomes.



Dr. Trevor Moraes, PhD – Assistant Professor in the Dept of Biochemistry at the University of Toronto

Dr. Moraes has been an Assistant Professor in the Department of Biochemistry since 2009 and was recently awarded a Tier II Canada Research Chair in the Structural Biology of Membrane Proteins. He completed is

undergraduate training in the Department of Biochemistry at Queen's University in 1997 and an MSc there with Dr. William Plaxton in 1999. He obtained his PhD in 2004 at the University of Alberta, supervised by Drs. Michael Ellison and J.N.Mark Glover, followed by post-doctoral studies with Dr. Natalie Strynadka at the University of British Columbia.



Dr. Justin Nodwell, PhD – Professor, Chair of the Dept of Biochemistry, University of Toronto

I first became interested in biology as a teenager when, by chance, I watched a stop-action film of dividing plant cells on television: it was a moment that changed my life. The idea that there is such incredible order to life at the microscopic level was (and still is) something I find incredibly fascinating and it's what drove me to consider a career as a scientist.

As an undergraduate, I studied genetics and biochemistry which lead to a PhD at the University of Toronto where I investigated a mechanism of gene regulation in bacteriophage lambda. As a postdoctoral fellow at Harvard University, I became interested in the streptomycetes bacteria where I investigated a mechanism of cell-cell signaling involved in sporulation.

My independent career began at McMaster in 1998 and my laboratory remains focused on the streptomycetes including in particular the model organism Streptomyces coelicolor.



Dr. James Woodgett, PhD – Director of Research at the Samuel Lunenfeld Research Institute

Jim Woodgett has worked at the Samuel Lunenfeld Research Institute at Mount Sinai Hospital since 2005 and was previously Head, Division of Experimental

Therapeutics at the Ontario Cancer Institute. His laboratory studies signal transduction in normal development and diseases (especially protein kinases), has published over 240 papers and he is actively involved in science policy. Although he worries about his trainees, he is confident they'll change the world.

How to Optimize your Scientific Career



Dr. Steve Bryson, PhD – Research Scientist UHN, Formerly at Apotex Research Inc. and Glycodesign Inc.

Dr. Steve Bryson received his Ph.D. from the Department of Biochemisty at the University of Toronto. His thesis studied the structure and function of a validated drug target enzyme. He went on to work at Apotex Research Inc., followed by Glycodesign Inc., applying structure-based drug design

methods to the discovery and development of potential medicines. Currently, he is a Senior Research Scientist at UHN, studying the structures of disease neutralizing antibodies.



Dr. Zayna Khayat, PhD – Director of Development, Ivey International Centre for Health Innovation

Dr. Zayna Khayat joined Ivey in 2013 after an 11-year career in strategy consulting, primarily in the health and life sciences sector. She was with the Boston Consulting Group (2001-2010), and then was an Associate Principal with SECOR

Consulting, a Canadian firm that was acquired by KPMG in 2012. Dr. Khayat is also an adjunct professor in the Health Sector stream at the Rotman School of Management at University of Toronto, and is a senior advisor to Endeavour Volunteer Consulting. Zayna holds PhD in biochemistry from the University of Toronto/Sickkids (2001). She resides in Toronto with her husband and 3 children.



Dr. Jonathan Steels, PhD – Dean of Students for Trinity College at the University of Toronto

Dr. Steels has held the role of Dean of Students at Trinity College, since April 2010, where he worked previously as Assistant Dean of Students and as an Academic Don. Trinity College is a small and highly academic undergraduate college

that operates in Federation with the University of Toronto. Dr. Steels is responsible for the vision and leadership of the Dean's office and managing the many facets of its operations. This includes such things as management of residence operations, creation and application of non-academic policy, constructive working relations with student governance, interfacing with College governance, programming and provision of student supports, and liaison with relevant groups and divisions at the University of Toronto. Dr. Steels earned a PhD from the University of Toronto's Department of Biochemistry in 2008 and conducted his doctoral research in the laboratory of Dr. William Trimble at the Hospital for Sick Children's Department of Cell Biology.



Dr. Cindy Yip, PhD – Scientist I at Luminex Corporation
Cindy Yip is a Scientist in the Research Department of
Luminex. She contributes to the development of next
generation molecular diagnostic assays. Prior to this role, she
was a Project Manager who managed R&D to
commercialization activities of Luminex products. She
previously worked at Millennium Research Group as a Senior

Marketing Analyst and also worked at Sunnybrook Health Sciences Center as a Post-Doctoral Fellow in Cancer Research. She holds a BSc in Electrical Engineering, BSc in Life Sciences, MSc and PhD in Biomedical Engineering.

Successful Career Outside Academia



Dr. Katharina Forster, MD, PhD – Associate Project Lead at Cancer Care Ontario

Dr. Katharina Forster recently left the academic world to apply her skills and knowledge working for a government agency. She obtained her MD and PhD degrees at Friedrich-Schiller-University in Jena, Germany. Following graduation she

pursued a postdoctoral fellowship in Transplant Immunology with the Multi-Organ transplant research group, University Health Network, Toronto. During her second fellowship in Mucosal Immunology at the University of Toronto she decided that despite her track record of success a change was in order. To

satisfy her longing to get back in touch with the clinical side of things and be involved in influencing health outcomes and patient care she recently joined Cancer Care Ontario. In her role as Associate Project Lead for the Disease Pathway Management Secretariat she works with clinicians and other stakeholders to define evidence based best practices and describe the ideal for a standard of care throughout the illness trajectory. She enjoys the creativity and strategic thinking she gets to exercise in her daily work, as well as the amazing and diverse group of people she works with. In her spare time, Dr. Forster is leading the Toronto Chapter of BioTech Annecto, an organization that hosts monthly networking events targeted towards different interest groups including pharmaceutical, healthcare, biomedical, finance, intellectual property, entrepreneurship, agribusiness, cleantech. She unwinds and rests her mind through walks with her dog, cooking and reading.



Dr. Cory Mulvihill, PhD – Chief of Staff to the Minister of Research and Innovation, Government of Ontario Cory Mulvihill currently serves as Chief of Staff to Ontario's Minister of Research and Innovation. His previous roles in the government include Senior Policy Advisor to the Ministers of Economic Development and Innovation, and Research and

Innovation. Prior to this, Cory completed his Ph.D. in Biochemistry at the University of Toronto with a focus on cystic fibrosis. During this time, Cory was a director with the Graduate Management Consulting Association and an associate with the Hart House Investment Fund. Additional education includes completion of the Chartered Financial Analyst (CFA) exams and an Hon. B.Sc. in Chemistry.



Dr. Jane Mitchell, PhD, RAC – Associate Director, Regulatory Operations, Strategic Regulatory and Safety, OptumInsight E. Jane Mitchell grew up in Toronto and attended the University of Toronto for both her BSc and PhD in Cell Biology and Biochemistry. From 1984 - 1987 she held a MRC Fellowship from Canada to study at the Laboratory of Molecular Biology in Cambridge, UK. There, her interests were focussed on protein-protein interaction, specifically

mapping intermolecular binding sites using biochemistry and then-novel site-directed mutagenic techniques. Dr. Mitchell returned to Canada to NRC's then brand new Biotechnology Institute in Montreal where she continued her research focussed on receptor-ligand interactions, specifically on Transforming Growth Factor-B. She was cross-appointed to McGill's Department of

Pharmacology and Therapeutics and instructed medical students and mentored a successful master's student. After moving, with her growing family, in 1993 to Edmonton, she joined AltaRex Inc, a young Biotechnology Company, as a regulatory affairs project manager for anti-cancer monoclonal antibodies that headed into Phase I and II trials in the US and Canada during her tenure. Jane returned to the Toronto area in 1999 and has worked in pharma/biotech regulatory sciences consulting. She joined CanReg Inc/now Optum Canada. 8 years ago and manages for, a variety of projects including: New Drug submissions, a major HC regulatory policy amendment switch to Rx drug. As Assoc. Director, Regulatory Operations, Jane also directs the development of online portals for client access to e-RA records adherent to FDA 21CFRPart 11, enabling multiple office world-wide access, and in this capacity directs a cross-functional team including: clients, records, regulatory, web development and systems staff. A particular interest in new drug development and pharmacogenomics and its new role in regulatory sciences. Jane plays classical piano and has two daughters and a Westie dog.



Mr. Anthony Palma, MSc – Manager, Research Facilities Planning & Safety, UHN; Consultant, Laboratory Services, MedRIST

Anthony Palma is Manager of Research Facilities Planning & Safety at UHN, a teaching hospital of the University of Toronto, and is a Consultant for Laboratory Services with MedRIST, a UHN entity that is committed to providing support

services to academic institutions, research organizations and life science companies. His scientific roots started at the University of Toronto, receiving both an Honours B.Sc. in Biochemistry/Chemistry and a M.Sc. in Clinical Biochemistry, focusing on protein biochemistry and structural characterization. Anthony is a member of the Research Support Services Management team at UHN. In his current role as Manager, Anthony oversees a dynamic 12-membered team of Project Managers that plan and execute on infrastructure projects across a combined 809,090 SQFT of research environments. The nature of the projects include space planning, installation of specialized equipment, laboratory redevelopment, building construction, capital equipment procurement, infrastructure-related corporate grant administration and domestic/international relocations. As of November 2012, the team's collective portfolio highlights 676 projects totaling \$518M.



Dr. Laura Rendl, PhD – Grants Officer at University of Ontario Institute of Technology

Dr. Laura Rendl received her Bachelor of Science and Doctorate in Biochemistry from the University of Toronto. Her thesis focused on elucidating the molecular mechanisms of mRNA decay employed by sequence-specific RNA-binding proteins in Saccharomyces cerevisiae. As Grants Officer in the Office of

Research Services at the University of Ontario Institute of Technology, Laura supports faculty in the development and management of competitive research grant applications. In her role she maintains a strong liaison relationship with external granting agencies, supports faculty research interests and promotes the University research culture.

Career Transitions Throughout Life



Dr. Rima Al-awar, PhD – Director and Senior Principal Investigator, Drug Discovery Program, Ontario Institute for Cancer Research

Dr. Al-awar earned a PhD in synthetic organic chemistry from North Carolina State University working on *Lycopodium* Alkaloids and did a post-doctoral fellowship focused on natural products synthesis at the University of North Carolina at

Chapel Hill prior to joining Eli Lilly and Company in 1995. While at Lilly, she was an active medicinal chemist in the oncology area working in multidisciplinary teams on the antimicrotubule agent Cryptophycin and later on several kinase focused efforts. In 2002, while at Lilly, Dr. Al-awar took on administrative responsibilities as Head in Discovery Chemistry Research and Technologies and later as Head, Route Selection, in Chemical Product Research and Development prior to joining the Ontario Institute for Cancer Research as Director of the Medicinal Chemistry Platform in July 2008.



Dr. Harry Schachter, MD, PhD – Professor Emeritus in the Dept of Biochemistry, University of Toronto and Molecular Structure and Function at the Hospital for Sick Children I was born in Vienna in 1933, moved to Trinidad (British West Indies) in 1938 and to Toronto in 1951. I received three degrees from the University of Toronto: B.A.

(Physiology and Biochemistry) in 1955, MD in 1959 and PhD in Biochemistry with Gordon Dixon in 1964. I spent 1966-68 in Baltimore with Saul Roseman to learn all I could about glycosyltransferases, a very neglected field at the time. I spent the next 42 years doing basic research in glycobiology, first at the

Department of Biochemistry, University of Toronto, and then at the Hospital for Sick Children. I closed my lab in 2010.



Dr. Frances Sharom, PhD – Professor Emeritus in the Dept of Molecular and Cellular Biology at the University of Guelph Dr. Frances Sharom obtained a B.Sc. Honours. Degree in Chemistry at the University of Guelph, and completed a Ph.D. in Biochemistry at the University of Western Ontario. She joined the Chemistry & Biochemistry Department at the University of Guelph in 1980 as an Assistant Professor. Until

recently, Dr. Sharom was Professor and Tier 1 Canada Research Chair in Membrane Protein Biology in the Department of Molecular and Cellular Biology, where she is now Professor Emeritus. Over the course of her career, she was Director of two graduate programs (Chemistry & Biochemistry, Biophysics), and has for many years been a member of the executive board of the Canadian Society for Molecular Biosciences (CSMB, formerly the CSBMCB). Dr. Sharom has won several teaching awards, including an OCUFA award in 1992, a Lieutenant-Governor's Award in 1993, and UGFA awards in 1992 and 2002. Her research focus is in the area of membrane proteins and lipids, and her research group has published over 120 journal articles in this field.



Mr. Andrew Yoshioka, BSc – *President of Sanbonki Inc.*Andrew Yoshioka, President, Sanbonki Inc. Andrew has more than 27 years of diverse pharmaceutical/biotech industry and consulting experience working in both start-ups and big pharma. During his career he has progressed through fifteen different job titles at seven companies and three mergers. As president of his own company Sanbonki Inc. he is a strategic

business advisor to life sciences companies. He has previously been involved with career events at UofT LSCDS, UTSC Career Spark, mentored at a variety of entrepreneur startup competitions and is an active volunteer at Life Sciences Ontario, and the RIC Centre in Peel Region.

Keynote Address



Dr. Matt Buist, B.S.— *Vice President of Life Sciences Ontario* Matt Buist received his education at the University of Ulster in Northern Ireland in Electronic Engineering. Dr. Buist then worked as a Marine Electronics Engineer before moving to the U.K. division of Baxter Corporation in Sales and Marketing

Management. He then moved to Baxter Canada, working in sales and marketing of analytical instruments and diagnostic supplies. Currently, he is the Vice President of Life Science Ontario, and works for the City of Toronto as the manager of Business Development of Medical and Biotechnology.

Closing Remarks



Dr. J.C. Zúñiga-Pflücker, Ph.D. Professor & Chair Department of Immunology, University of Toronto Canada Research Chair in Developmental Immunology Senior Scientist Biological Sciences, Sunnybrook Research Institute

Juan Carlos Zúñiga-Pflücker received his B.Sc. in 1987 from the University of Maryland, and continued with his PhD

studies in genetics and immunology at George Washington University. He is a senior scientist in biological sciences in the Odette Cancer Research Program at Sunnybrook Research Institute, as well as the chair and professor in the department of immunology at The University of Toronto.



Dr. Nana Lee, PhD – Coordinator of Graduate Professional Development, Dept of Biochemistry at the University of Toronto, former Director of Application Science, DNA Software Inc.

Dr. Nana Lee holds a PhD in Biochemistry from the University of Toronto, a Postdoctoral Fellowship at the University of

Michigan and was a Visiting Scholar at Whitehead (Broad) Institute for Biomedical Research, MIT with the world's leading group of the International Human Genome Project. Her roles in the biotechnology industry include Senior Research Scientist for Ellipsis Biotherapeutics Inc. and Senior Research Scientist, Product Manager and Director of Application Science for DNA Software Inc. She brings her valuable expertise as an industry scientist and mother of three back into academia as she is currently pioneering the addition of professional development in biomedical graduate education. Along with Dr. Reinhart Reithmeier, she developed and implemented the innovative Graduate Professional Development (GPD) course in the fall of 2012 for the Department of Biochemistry, University of Toronto. Future courses and programs are planned for 2014 while she currently coordinates and leads other GPD activities during her maternity year. She resides with her husband and three daughters in Toronto.



Ms. Katelyn Darowski – Graduate Studies Candidate, Dept of Biochemistry at the University of Toronto

Katelyn is a M.Sc. candidate in the Department of Biochemistry at the University of Toronto. Her research in Dr. Igor Stagljar's lab focuses on elucidating the signaling pathways between the EGFR Receptor Kinase family and

protein phosphatases to better understand triple-negative breast cancers. She obtained an Honours B.Sc. in Chemistry and Biochemistry from Western University, working in Dr. Christopher Brandl's lab focusing on binding regions of the SAGA complex in *S. cerevisiae*. She is also the External Commissioner for the Biochemistry Graduate Student Union and a member of the Life Science Career Development Society.

Sessional Speakers

Research Ethics & Intellectual Property Law



Dr. Richard Cheung, PhD – Associate in the Technology and Intellectual Property Group; Fasken Martineau, LLP Richard Cheung is an associate lawyer in the Toronto office of the Fasken Martineau DuMoulin LLP Intellectual Property Group and a member of its Life Sciences industry group. Richard practises in all areas of intellectual property law with a focus on patents. In addition, he counsels clients on regulatory issues related to health products in Canada

including compliance and enforcement matters, drug pricing and reimbursement, data protection, patent listing, and medical device licensing. Richard also has experience in a wide range of matters involving the innovative pharmaceutical and biotechnology industry, including proceedings under the *Patented Medicines* (Notice of Compliance) Regulations.

Richard is a licensed pharmacist in the Province of Ontario with experience in community and hospital pharmacy. His doctorate thesis involved the development of a novel particulate delivery system for anti-cancer drugs. He has broad technical experience in the areas of pharmacy and pharmaceutical sciences.



Dr. Martin Offringa, PhD - Senior Scientist and Program Head, Child Health Evaluative Sciences at SickKids Research Institute

After graduation from medical school in 1986 Martin Offringa trained in epidemiology and clinical decision analysis at the Rotterdam Centre for Clinical Decision Analysis, and

completed his training in paediatrics and neonatology. Motivated by the increased focus on clinical research in children and the stark deficiencies in knowledge about optimum ways to deal with methodological and practical challenges of research in children, Dr Offringa created StaR Child Health. StaR Child Health brings together an international group of leading methodologists, clinicians, regulators, funders, and decision makers to systematically identify what is known, create a research agenda when gaps exist, and translate information into practical guidance for end-users.

In 2012, Dr. Offringa was appointed as Senior Scientist and Head of the Child Health Evaluative Science Program at The Hospital for Sick Children, he holds a clinical appointment in the Department in Neonatology and is a Professor in the Department of Paediatrics at the University of Toronto.



Mr. Mark Penner, MSc, LLB – Partner in the Technology and Intellectual Property Practice Group; Fasken Martineau, LLP Mark is a partner in the Technology and Intellectual Property Practice Group with expertise in the acquisition, protection and enforcement of intellectual property. Mark is registered to practise as a patent and trade-mark agent before the Canadian Intellectual Property Office. He is also registered to represent Canadian applicants before the United States

Patent & Trademark Office. Mark's practice also involves the IP aspects of corporate transactions (e.g. financing, mergers & acquisitions and joint ventures) such as protection of confidential information, trade secrets and know how, conducting due diligence, as well as technology acquisition and licensing.



Dr. Jason Szeto, PhD – *Scientist, Immunology Platform, Analytical Research and Development, Sanofi-Pasteur* Jason Szeto is currently a scientist working with the global vaccine company Sanofi-Pasteur. Prior to this, he completed his Bachelor of Science degree in Biology-Biotechnology at the University of Ottawa, with his Honour's thesis focusing on the mechanisms of bacterial plasmid replication. With interest in

molecular microbiology, Jason pursued his doctoral studies at the same institution and investigated cell division proteins of pathogenic *Neisseria* bacteria using molecular, biochemical, and microscopy techniques. After completing his PhD, he joined the laboratory of Dr. John H. Brumell, Hospital for Sick Children, as a post-doctoral fellow. In the Brumell lab, Jason conducted bacteria-host interaction studies on the food-borne pathogen

Salmonella typhimurium. Using cellular microbiology and fluorescent cell imaging methods, he studied the intracellular growth of Salmonella and its interaction with host cell systems in vitro. As a post-doctoral fellow, Jason also had the opportunity to guest lecture at the University of Toronto, including several third and fourth year undergraduate general microbiology and microbial pathogenesis classes, respectively. After his fellowship, Jason was recruited in 2008 to join the Immunology-Microbiology Department of Sanofi-Pasteur Canada, located at the Sunnybrook Hospital Campus in Toronto. There, he conducted preclinical research on candidate pathogenic bacterial vaccine antigens to assess their efficacy and mechanisms of action. After a restructuring of global Sanofi-Pasteur operations, Jason became a member of the Immunology Platform of the Analytical Research and Development North America division, where he develops and conducts immunological assays to monitor the stability, potency, and quantity of candidate vaccine antigens and therapeutic proteins.

Importance of Mentorship



Ms. Donna Heslin, MSc – Assistant Director Operations, Dept of Management at the University of Toronto

Donna Heslin holds a Master's degree in Laboratory Medicine and Pathobiology from the University of Toronto and is a certified Project Management Professional (PMP) with the Project Management Institute (PMI). She has worked in the field of student development, mentorship and employment strategies for over ten years at U of T. Donna developed and

managed the internship program for the Master of Biotechnology program at U of T, as well as the mentorship and employment program for the Pathways to Biotechnology Program for internationally trained professionals at the School of Continuing Studies. Donna is currently the Assistant Director of Operations for the Department of Management at U of T Mississauga.



Dr. Allan S. Kaplan, MSc MD FRCP(C) – Director, Institute of Medical Science, Chief of Clinical Research, Center for Addiction and Mental Health, Vice Chair Research and Professor of Psychiatry

Dr Allan S Kaplan is currently Chief of Clinical Research and Senior Scientist, Campbell Research Institute, at the

Center for Addiction and Mental Health. He is also Vice Chairman for Research and Professor in the Department of Psychiatry, and Director of the Institute of Medical Science. His research has focused on innovative treatment

approaches to eating disorders and on the genetics of anorexia and bulimia nervosa. He has published 150 peer reviewed articles, two books, 50 book chapters and over 200 abstracts. He was the inaugural Chair-holder of the Loretta Anne Rogers Chair in Eating Disorders at the University Health Network, the first endowed Chair in eating disorders in the world. He has been a continuously funded peer reviewed investigator since 1992, and has received grant support from the National Institute of Mental Health in the USA Canadian Institutes of Health Research, and the Ontario Mental Health Foundation.



Ms. Monique Rehal, MSc – Supervisor, Quality Control and Document Archiving at Boehringer Ingelheim

Monique Rehal is a skilled quality control supervisor within the pharmaceutical industry. She develops and implements clinical quality programs and integrates new process amongst cross-functional teams. She is an experienced clinical project manager with working knowledge of industry regulations,

managing and conducting molecular and Phase I-IV clinical research projects, and advocate and volunteer for non-profit organizations.



Dr. Pamela Plant, PhD – Research Coordinator at The Keenan Research Centre at Li Ka Shing Knowledge Institute, St. Michael's Hospital

Pamela Plant is Research Coordinator at the Li Ka Shing Knowledge Institute at St. Michael's Hospital. Following completion of a M.Sc. from the Department of Cell and

Systems Biology and a Ph.D. from the Department of Biochemistry, both at University of Toronto, Pamela went on to conduct a fruitful post-doctoral fellowship in the lab of Dr. Tony Pawson at the Lunenfeld Institute at Mt. Sinai Hospital. She moved on to be a Senior Research Associate in the Faculty of Medicine at U of T before landing at St. Michael's. It is there where she is responsible for developing the infrastructure and training of core Molecular and Cellular Biology Resources in the Institute. She has also initiated and runs an Educational Programme for graduate students, post-docs and staff at the Institute in Basic Research Methodologies and sits on the Research Training Committee. She is proud to have scientifically guided and mentored dozens of graduate students and post-docs and greatly enjoys participating in career development events at the University.

Choosing the Best Post-Doc and Preparing for the Job After



Ms. Elena Pizzamiglio, M.Ed – Career Counsellor at the University of Toronto

With over 10 years of counselling experience in educational settings, Elena thrives on assisting students and recent graduates launch successful careers. Elena holds a Master of Education in Counselling Psychology from OISE/UT. Prior

to counselling, she worked in the field of Second Language Acquisition.



Dr. Adam Rosebrock, PhD – Research Fellow at the University of Toronto

Adam Rosebrock is the C.H. Best Research Fellow at the University of Toronto, Donnelly Centre for Cellular and Biomolecular Research. The Rosebrock lab is interested in understanding the genetic and biochemical processes

underlying cellular growth and division using a synthesis of high-throughput technologies and classic genetic, molecular biology, and biochemical tools.

Dr. Rosebrock earned his B.S. in Microbiology from Purdue University (West Lafayette, IN). He entered into the chemical engineering program, but quickly found a calling in basic science. The engineer's mindset of tool design and implementation have followed him throughout his career.

Adam wrote his PhD thesis in the labs of Bruce Futcher and Janet Leatherwood at Stony Brook University on transcriptional regulation of the fission yeast cell cycle. During this time, he developed a number of hardware and software tools for microarray manufacture and analysis, providing a move into high-throughput biology.

Prior to joining the U of T, Adam was a postdoctoral trainee in Greg Hannon's group at Cold Spring Harbor Laboratory. There, he developed next-generation sequencing-based tools to examine tumour-host interaction and identify genetic susceptibilities of cancer cells.

The Rosebrock lab continues to develop new technologies as needed to pursue the scientific projects in the lab, where engineering and biology students are trained in an interdisciplinary fashion.



Dr. David Williams, PhD – Professor in the Dept of Biochemistry at the University of Toronto

David Williams did his doctoral work at the University of Toronto in the area of glycoprotein biogenesis followed by postdoctoral studies at Johns Hopkins University with Bill Lennarz and Gerald Hart where he developed an interest

in protein folding and quality control in the mammalian secretory pathway. As a principal investigator he discovered the calnexin chaperone system and has characterized it extensively. He has also made important contributions to the field of antigen presentation by class I histocompatibility molecules, particularly in how these molecules assemble with antigenic peptides in the endoplasmic reticulum. Current research focuses on the roles of molecular chaperones, protein disulfide isomerases and peptidyl prolyl isomerases in protein folding as well as in the quality control triage system of the endoplasmic reticulum.

He was a Medical Research Council Scholar from 1986-1991, received the Merck Frosst Prize in 1994 for outstanding initial independent research in Biochemistry and Molecular Biology in Canada, was awarded the University of Toronto Dales Award in 2000 for sustained excellence in medical research, and was elected President of the Canadian Society of Biochemistry, Molecular and Cellular Biology in 2009.



Dr. Paul Yip, PhD – Clinical Biochemist, Laboratory Medicine Program, University Health Network, Assistant Professor, Dept of Laboratory Medicine and Pathology, University of Toronto Dr. Paul Yip is a graduate of the University of Toronto completing both his B.Sc. and Ph.D. degrees in Biochemistry. After completing the Postdoctoral Training Program in Clinical Chemistry, he continued with a fellowship

in the Hospital for Sick Children in Toronto. Since 2005, he has been with the University Health Network as a Clinical Biochemist, and cross-appointed as Assistant Professor in the Department of Laboratory Medicine and Pathobiology of the University of Toronto. He is certified by the Canadian Academy of Clinical Biochemistry and the American Board of Clinical Chemistry. Dr. Yip's professional interests are in the areas of laboratory informatics and point-of-care testing. He is highly engaged in educational activities which span undergraduate to post-graduate teaching and also science outreach in the community.

Global Trends and Innovation



Dr. Peter Azmi, PhD – Business Development Officer, Innovations and Education Office at the Faculty of Medicine, University of Toronto

Dr. Peter Azmi is currently employed by the University of Toronto's Faculty of Medicine, in the Innovations + Education Office (i+e). In addition to his role at i+e, Peter is

the Director of Partnerships at SIM-one, the Ontario Simulation Network.

Peter's role at SIM-one is to foster relationships between public and private sector members of the SIM-one community to support further innovations in simulation technology and services within the Province of Ontario. Peter also currently teaches two classes at the School of Continuing Studies in Business Innovation and in New Product Development. Previously, Dr. Azmi worked at the Innovations and Partnerships Office (IPO) at the University of Toronto as the Business Development Officer for Life Sciences. Prior to IPO, Peter worked at the investment bank Bloom Burton & Co. where he was a banking research associate and an equity research associate. Prior to his time at Bloom Burton, Peter helped establish the Sunnybrook Health Sciences Centre microarray and genomics facility, and consulted for the Sunnybrook business development office. Peter has also consulted for several Canadian and international laboratory technology companies, as well as for not-for-profits, and a major Canadian investment bank.



Ms. Melissa DeSouza, BA – Recruitment Consultant in Life Sciences at Hays Specialist Recruitment

Melissa DeSouza is a Recruitment Consultant in the Life Sciences Division at Hays Specialist Recruitment. Hays is the world's leading specialist recruitment consultancy with over 200 offices in 33 countries worldwide. Melissa has expertise in

recruiting intermediate to executive level roles specifically for Pharmaceutical and Medical Technology clients across Canada. She holds an Honours Bachelors Degree in Business Administration with a focus in Human Resources from Wilfrid Laurier University. What Melissa enjoys most about her job is being able to connect companies with the employees that can help transform their businesses, while also giving consultative advice to candidates so that they can achieve growth in their careers.



Dr. Anthony Partridge, PhD – Senior Director at Pharmaron Beijing

Anthony Partridge, Ph.D. is a Senior Director of Biology at Pharmaron, Beijing. Dr. Partridge brings with him several years of drug discovery experience in the pharmaceutical and biotechnology arenas. Most recently, he was In Vitro

Pharmacology Capability Lead in the xDPS group at Merck & Co. where he helped pioneer collaborative efforts with CRO partners in China focusing on assay development and screening for SAR campaigns. Prior to this role, he was a Senior Scientist at the Merck Frosst Centre for Therapeutic Research in Montreal where he established biophysics capabilities and led projects in the

areas of HTS assay design, hit triage, lead identification, and lead optimization. As a Scientist at Élan Pharmaceuticals, Dr. Partridge established academic collaborations for target validation, co-led protein purification and characterization efforts and also co-led a small molecule hit identification program. He received his B.Sc. from the University of Guelph in 1998, his Ph.D. from the University of Toronto in 2003 and post-doctoral training at Scripps/UCSD (2003-2006)



Dr. Ivan Waissbluth, PhD - Project Manager at MaRS Innovation

Ivan Waissbluth is the CEO of ScarX Therapeutics, a preclinical stage biotech company focused on developing an anti-fibrotic drug for the reduction of surgical scars. Ivan has over 5 years of preclinical drug development experience and prior to ScarX, worked as a project manager at MaRS

Innovation, where he managed a number of drug discovery and development programs targeting multiple indications. Ivan also has venture capital experience, having worked as an analyst at Burrill & Co., a life science focused venture capital firm based in San Francisco. Prior to this, Dr. Waissbluth worked at the Centre for Drug Discovery and Development in Vancouver as well as the Technology Transfer Office of the University of British Columbia (UBC). Ivan earned a PhD in Experimental Medicine from UBC (2008).

Organizing Committee

Dr. Nana Lee (above)
Dr. Reinhart Reithmeier (above)
Katelyn Darowski (above)



Mr. Matthew Cheng – Graduate Studies Candidate, Dept of Biochemistry at the University of Toronto

Matthew Cheng is currently a graduate student and a Master's Degree candidate in the Department of Biochemistry at the University of Toronto. Working in Dr. Craig Smibert's lab, his research focus is on a structure

function analysis of the RNA-binding protein, Smaug, in *Drosophila* embryogenesis. He received his Bachelor's Degree from the University of Toronto, where he graduated with Honours in Biochemistry, and minored in Human Biology. In addition, he is also an executive member in the Biochemistry Graduate Students' Union, an associate faculty at F1000 prime, and a volunteer at the Let's Talk Science outreach program.



Ms. Kristina Han, M.Sc. – *Graduate Studies Candidate, Dept of Biochemistry at the University of Toronto*

Kristina Han is pursuing her PhD degree in the Department of Biochemistry at the University of Toronto. Her current research focuses on characterizing the ER-localized Protein O-Fucosyltransferase 2 protein through structural and chemical analysis. Kristina completed her M. Sc. Degree at

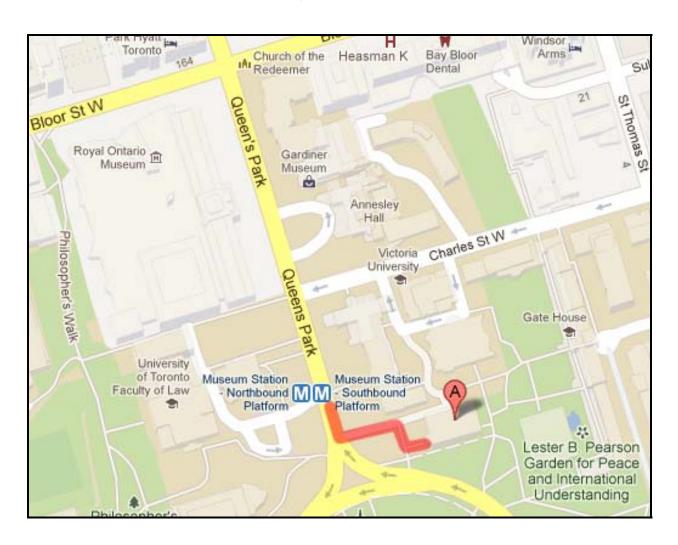
Queen's University, studying the effect of Aplipoprotein(a) size on serum Lipoprotein(a) levels. She earned her Bachelors of Arts and Science degree at McMaster University with Combined Honours in Biochemistry and Biomedical Sciences. Kristina is an executive member of the Biochemistry Graduate Student Union, and the Steward Representative for the Department of Biochemistry in CUPE3902. She is currently the graduate student advisor for the University of Toronto chapter of the iGEM project. In her spare time, Kristina is the Communications Assistant in the Ontario Fencing Association, and can often be found refereeing and competing at national and international tournaments.

Venue

Northrop Frye Hall, Rm 003 73 Queens Park Crescent Toronto ON M5S 1K7

Located at the SE corner of Bloor St W and Queen's Park Crescent

Nearest Subway station: Museum station



For all inquiries, please email Nana Lee at nana.lee@utoronto.ca