



# Medicine UNIVERSITY OF TORONTO

Division of Dermatology

## TORONTO PSORIASIS SEMINAR (TOPS) & ROBERT S. LESTER POSTGRADUATE SEMINAR

### Immunity & Inflammation of the Skin

FRIDAY, NOVEMBER 22, 2019 @ 8:00 A.M. – 4:00 P.M.

*Women's College Hospital, 2<sup>nd</sup> Floor, Auditorium*

### AGENDA

8:00am	<b>Registration</b>	
8:45am	<b>Welcome &amp; Introductions</b>	Dr. Vincent Piguet
9:00am	"Understanding Complexity in Clinical Processes"	Dr. Alice Pentland
9:20am	Q&A	
9:30am	"Surgical Intervention in Early Hidradenitis Suppurativa"	Dr. Ralph George
9:50am	Q&A	
10:00am	<b>Coffee break</b>	
10:30am	"Pathogenesis of Hidradenitis Suppurativa"	Dr. Vincent Piguet
10:50am	Q&A	
11:00am	"Microbiome & Gut Diseases"	Dr. Ken Croitoru
11:20am	Q&A	
11:30am	"Cardiovascular Diseases in Patients with Psoriatic Disease"	Dr. Lih Eder
11:50am	Q&A	
12:00pm	"Scarring Alopecias"	Dr. Renée Beach
12:20pm	Q&A	
12:30pm	<b>Lunch</b>	
1:30pm	"Update on Hand Eczema"	Dr. Sonja Molin
1:50pm	Q&A	
2:00pm	"Chemoprevention of Non-Melanoma Skin Cancers"	Dr. An-Wen Chan
2:20pm	Q&A	
2:30pm	<b>Coffee break</b>	
3:00pm	"Cutaneous Nerves and Skin Immunity"	Dr. Dan Kaplan
3:30pm	Q&A	
3:45pm	<b>Closing Remarks</b>	Dr. Perla Lansang

\*This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification program of The Royal College of Physicians and Surgeons of Canada, and approved by the Canadian Dermatology Association for up to 5 Section 1 MOC credits.



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## SPEAKERS

### Alice Pentland, MD



Dr. Alice Pentland is Professor and Chair of Dermatology at the University of Rochester. She received her undergraduate and medical degrees from the University of Michigan. She is an expert in photobiology and skin cancer, and specializes in the treatment of Bullous diseases, such as pemphigus and Bullous Pemphigoid. Dr. Pentland has dedicated her career to bringing state-of-the-art technology to create a rich interdisciplinary research environment within the department and at the University of Rochester. Dr. Pentland's early research career focused on the role of prostaglandins in skin carcinogenesis and in cell differentiation. She also co-founded and directed the Center for Future Health to develop interdisciplinary novel health technology in collaboration with the Media Lab at MIT. More recently, this interest has been focused on using big data and novel technical approaches to improve clinical care. Her research has been supported by funding from NIH, NSF, Robert Wood Johnson Foundation, the Keck Foundation and Pharmaceutical Corporations. She is a member of the Society for Investigative Dermatology, American Association of Clinical Investigators, Women's Dermatologic Society and the American Academy of Dermatology.

### Ralph George, MD, FRCS



Dr. Ralph George is an associate professor of General Surgery at the University of Toronto and medical director of the CIBC Breast Centre at St. Michael's Hospital. He is also the president of the St. Michael's Hospital Medical Staff Association. Dr. George completed an Endoscopy and a Surgical Oncology Fellowship at the Roswell Park Cancer Institute. He is the chair of the Royal College Specialty Committee for Surgical Oncology, and an executive board member of the Canadian Breast Cancer Foundation. He also is co-chair for the Hidradenitis Suppurativa Advisory Board of Canada, and past president of the Canadian Association of General Surgeons, and a past recipient of Queen's University's Surgical teaching award.

### Vincent Piguet, MD, PhD, FRCP



Dr. Vincent Piguet trained at the School of Medicine, University of Geneva and graduated in 1995. He spent two years doing research in virology and immunology at the Salk Institute in San Diego, USA. He obtained his MD and PhD (2000/2001) and his specialist certification in Dermatology & Venereology (2004) from the Swiss Medical Association. He obtained Swiss National Science Foundation Assistant Professorship (2003) and was Associate Professor at University of Geneva (2009). He was appointed Professor and Chair of the Department of Dermatology and Wound Healing at Cardiff University, Wales, UK (2010). He obtained UK certification in Dermatology (2011) and in 2014 became a Fellow of the Royal College of Physicians. In 2011 he was appointed Director of the Institute of Infection and Immunity at Cardiff University. In 2017, he was appointed as Full Professor and Department Division

Director of Dermatology, Department of Medicine, University of Toronto and Division Head of Dermatology, Women's College Hospital, Toronto.



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Professor Piguet has authored over 190 publications in the fields of dermatology and virology in top journals including Cell, Immunity, The Lancet and Journal of Investigative Dermatology. He has received numerous grants to further his research in the areas of HIV, psoriasis, melanoma and immunology. Professor Piguet has given more than 100 lectures at national and international meetings, including at the World Congress of Dermatology and HIV Keystone meetings. He is on the editorial boards of several journals, including the British Journal of Dermatology and is deputy editor for the Journal of Investigative Dermatology. He is the Past-President of the European Society for Dermatological Research and past President-Elect of the European Dermatology Forum, and in 2017 was honoured with membership of the Academia Europaea.

### **Kenneth Croitoru, MDCM, FRCPC**



Dr. Ken Croitoru received his medical degree at McGill and completed clinical training in Internal Medicine and Gastroenterology at McGill in 1986. He completed a Post-Doctoral Research Fellowship at McMaster University in Mucosal Immunology. Dr. Croitoru held a Ministry of Health Research Scientist Award and a CCFC IBD Research Scientist Award. He joined the GI faculty at McMaster in 1989 where he developed his research interests and served as Director of the GI Training Program.

He is now a Professor of Medicine and Immunology at the University of Toronto and Clinician Scientist at the Lunenfeld-Tannenbaum Research Institute and Zane Cohen Center of IBD at Mt Sinai Hospital in Toronto and holds a Tier 1 Canada Research Chair in IBD.

His research program is focused on Mucosal T cell Biology and animal models of Inflammatory Bowel Disease (IBD). He also has a major research program in clinical and translational research in IBD. He is lead investigator of the CCC GEM Project a global Prospective Cohort study to define the cause of Crohn's disease with over \$20 M in funding from CIHR, Crohn's Colitis Canada and Helmsley Charitable Trust.

### **Lihi Eder, MD, PhD**



Dr. Lihi Eder is Clinician-Scientist and staff rheumatologist at the Women's College Research Institute, Women's College Hospital and Assistant Professor of Medicine, University of Toronto. Dr. Eder has a broad background in rheumatology with specific training and expertise in clinical and genetic epidemiology of psoriatic arthritis and musculoskeletal ultrasound. She is the Director of the Psoriatic Arthritis Clinic at Women's College Hospital and co-Director Cardio-Rheumatology Program at Women's College Hospital. Dr Eder's research in this field involves a combination of clinical epidemiology using large patient registries, musculoskeletal imaging and translational biomarker research. Dr Eder is involved in musculoskeletal ultrasound training to rheumatologists at both national and international levels and is the Research Director of the Canadian Rheumatology Ultrasound Society (CRUS).

Dr Eder's research was supported by a number of national and international agencies including CIHR, CRA, The Arthritis Society and the National Psoriasis Foundation (US). Dr Eder's research efforts have resulted in 88 peer-reviewed publications in medical journal, 79 posters and 21 podium presentations in national and international conferences. As a recognized emerging expert in rheumatology she received a New Investigator Salary Award from the Arthritis Society (2016) and Early Research Award from the Ontario Ministry of Research Innovation and Science (2018).



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## Renée Beach, MD, FRCPC



Dr. Renée Beach earned her medical degree from McMaster University and completed her dermatology residency at the University of Ottawa. Dr. Beach obtained dermatology board-certification in Canada and is a Fellow of the Royal College of Physicians and Surgeons of Canada. She practices medical and cosmetic dermatology with an interest in a broad range of skin tones. This interest was fostered during electives and preceptorships at Duke University, Wake Forest University and the University of Cape Town.

Her research has been published in several journals, including the Archives of Dermatology (JAMA Dermatology), Journal of Dermatologic Surgery and Journal of Cosmetic Dermatology. Her research has also been recognized with international awards from the Skin of Colour

Society, the Women's Dermatologic Society and the North American Hair Research Society.

In addition to her work at Bay Dermatology Centre, Dr. Beach practices at Women's College Hospital where she teaches dermatology residents and is an adjunct Assistant Clinical Professor in the University of Toronto's Faculty of Medicine.

## Sonja Molin, MD



Dr. Sonja Molin is an Associate Professor in the Division of Dermatology, Department of Medicine at Queen's University. Dr. Molin completed her training in Dermatology and Allergology at the Ludwig Maximilian University in Munich, Germany, where she worked for 11 years before she joined Queen's University in May 2018. The main focus of her clinical expertise and research are inflammatory skin diseases, mainly hand eczema and psoriasis, contact allergy and occupational dermatology. She has published more than 50 peer-reviewed articles and book chapters and was awarded a number of research prizes. Dr. Molin is member of several national and international medical societies and member of the executive board of the German Society for Occupational Dermatology.

## An-Wen Chan, MD



Dr. An-Wen Chan is a clinical epidemiologist and Mohs skin cancer surgeon at Women's College Hospital in Toronto, Canada. He is the Phelan Scientist at Women's College Research Institute, Associate Professor of Medicine at University of Toronto, and Director of Transplant Dermatology at University Health Network. After obtaining his doctorate as a Rhodes Scholar at University of Oxford, Dr. Chan served as Special Advisor to the Canadian Institutes of Health Research and helped coordinate the World Health Organization's International Clinical Trials Registry Platform. His research interests include the epidemiology and management of high-risk skin cancer in solid organ transplant recipients, as well as addressing issues of transparency and biases in clinical trials. He currently chairs the international SPIRIT initiative to improve the quality of clinical trial protocols and he helped coordinate the World Health

Organization's International Clinical Trials Registry Platform in Geneva.



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## Dan Kaplan MD, PhD



Dr. Daniel Kaplan is Professor of Dermatology and Immunology at the University of Pittsburgh. He joined the Department of Dermatology at the University of Pittsburgh in 2015, after being recruited from the University of Minnesota. Dr. Kaplan earned his undergraduate degree in molecular physics from Yale University, and received his medical degree and PhD in Immunology from Washington University in St. Louis, Missouri. He went on to complete his postgraduate training at Yale University. Prior to joining the University of Pittsburgh's Department of Dermatology, Dr. Kaplan was an Assistant Professor at Yale University, and an Associate Professor at the University of Minnesota.

He specializes in cutaneous immune response and development of immunotherapy against melanoma. His research focus is on psoriasis and other inflammatory skin diseases such as lupus erythematosus. In particular, his research highlights the importance of antimicrobial peptides in the cutaneous immune response and the pathogenesis of these inflammatory diseases of the skin. The skin is a barrier organ that is exposed to a wide variety of potential pathogens including bacteria, fungi and viruses. Within the skin there are numerous components of both the innate and adaptive immune system. The research focus of my lab is to understand how these skin resident immune cells (e.g. dendritic cells, T cells) interact with specific pathogens and other non-immune cells in the skin (e.g. keratinocytes and neurons) to contribute to the development of both innate and adaptive immune responses that provide host protection. My presentation will focus on how sensory nerves in the skin are able to detect pathogens and are a critical component of the cutaneous immune system.