

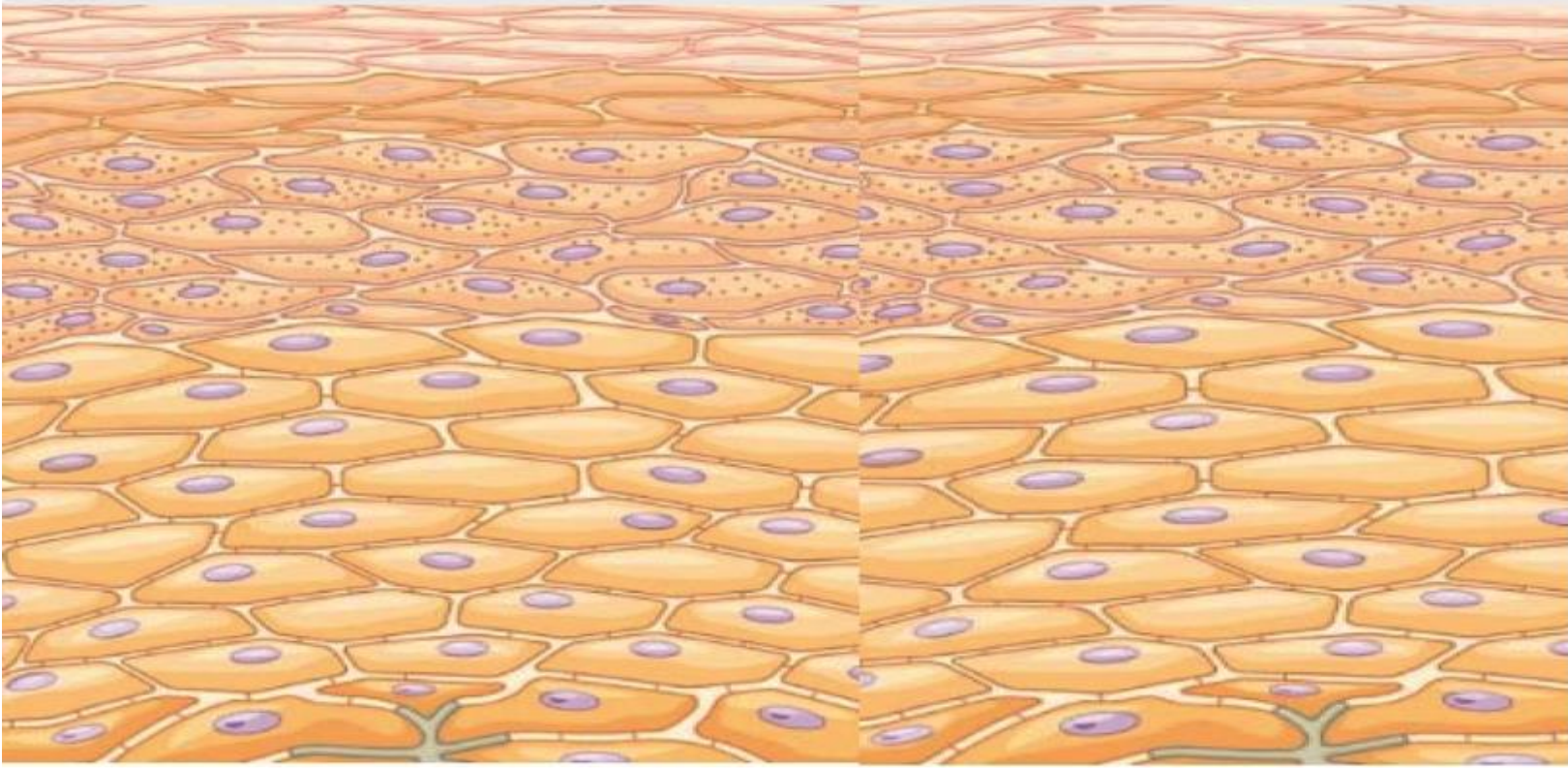
SRGC 2023 PROGRAM

10th annual conference
November 9 -10, 2023
(Online event)



SKIN RESEARCH GROUP OF CANADA

<https://srgcanada.org>



Skin Research Group of Canada 2023

Dear Colleagues and Friends,

It is my great pleasure to welcome you to the 10th Annual Skin Research Group of Canada (SRGC) Conference. The SRGC annual meeting is a Canadian national conference focused exclusively on skin research and has been held since 2014. The SRGC conference presents an important platform for all skin researchers in Canada to come together to advance skin science, promote collaboration, networking, interact with skin disease patients and to support the next generation of skin scientists. We are grateful to our industry sponsors and the Skin Investigation Network of Canada (SkIN Canada) for their support of the Trainee Research Awards of this event.

*This year, the SRGC 2023 conference is held virtually. The tremendous response and participation to our meeting is an indication of its high quality and impact. This year's meeting is co-chaired by **Dr. Mélanie Laurin** from the **Université Laval**, **Dr. Anie Philip** from the **McGill University** and **Dr. Dieter Reinhardt** from the **McGill University**. We have more than 100 registered attendees including researchers, clinicians, trainees and industry partners from across Canada. The organizers have invited distinguished scholars from across the globe as keynote and invited speakers, namely **Dr. Shruti Naik** from **NYU Grossman school of medicine, USA**, **Dr. Ken Liechty** from **University of Arizona, USA** and **Dr. Carolyn Jack** from **McGill University, Canada***

The SRGC conference was established with an aim to bridge the gaps in basic and clinical skin research. The primary focus of the conference is to encourage and motivate future skin scientists by giving them a platform to showcase their results, share ideas, as well as to network with established scientists in the field of skin research. Multiple workshops will be held during the annual meeting to help achieve these objectives. Excellent work of basic- and clinician-scientists will be recognized through best presentation awards.

The objectives and anticipated impact of the conference is:

- *To improve the skin health of Canadians by stimulating knowledge exchange.*
- *To facilitate the interaction of basic- and clinician-scientists, patients, industry, decision makers and disease support/advocacy groups.*
- *To foster novel research collaborations and help develop networking on skin research in Canada.*

Again, welcome to SRGC 2023. I hope you will find the meeting to be both stimulating and rewarding. Thank you.



***President, Skin Research Group of Canada,
Lucie Germain, Ph.D.***

***Full professor, Department of Surgery, Laval University
Director, University Laval Research Center/LOEX***

Skin Research Group *of* Canada 2023



SKIN RESEARCH GROUP OF CANADA

<https://srgcanada.org/>

Mbarka Bchetnia, PhD

Administrative coordinator 2023

Skin Research Group of Canada 2023

On behalf of the Scientific Organizing Committee, we would like to welcome you to the 2023 Skin Research Group of Canada 10th Annual Scientific Conference. As in the past years, SRGC 2023 will serve to showcase the very best in Canadian basic science, translational and clinical skin research.

This year SRGC 2023 is held virtually from NOV 9 to 10, 2023. Along with presentations from outstanding faculty and trainees from across Canada, we have an incredible array of invited and keynote speakers who will provide state-of-the-art lectures pertaining to different aspects of skin disease and innovative therapeutics.

The first invited talk will be delivered by SRGC President Dr. Lucie Germain of University Laval Research Center/LOEX. She will speak on the role of stem cells in skin regeneration in health and disease. During the first day, we are extremely fortunate to welcome Dr. Shruti Naik from NYU Grossman School of Medicine, USA as our first keynote speaker. Her lecture will cover recent advances in immune-mediated adaptive and maladaptive tissue responses. The highlights of our second day will be the keynote lecture by Dr. Ken Liechty from the University of Arizona, USA, who will share his research in wound healing and regeneration in the context of fetal medicine. In addition, we will have Dr. Caroline Jack from McGill University, Canada as our invited speaker who will focus on the role of inflammation in skin diseases.

We look forward to welcoming you to SRGC 2023 virtual meeting and sharing with you the exciting scientific program.

Sincerely,

SRGC2023 Scientific Organizing Committee Co-chairs



Mélanie Laurin, PhD

*Assistant Professor,
Department of
Molecular Biology,
Medical Biochemistry
and Pathology, Faculty
of Medicine, Université
Laval*



Anie Philip, PhD

*Professor, Department of
Surgery, McGill University
Director, Plastic Surgery
Research, McGill
University*



**Dieter Reinhardt,
PhD**

*Distinguished James
McGill Professor,
Department of Anatomy
and Cell Biology,
McGill University*

Skin Research Group of Canada 2023

Scientific Review Committee

Jeff Biernaskie, PhD

University of Calgary

Julie Fradette, PhD

LOEX/ Université Laval

Lucie Germain, PhD

CHU de Québec-Université Laval Research Center/LOEX

Robert Gniadecki, MD, PhD, DMSci

University of Alberta

Andrew Leask, BSc, PhD

University of Saskatchewan

Ivan Litvinov, MD, PhD, FRCPC

McGill University Health Centre

Veronique Moulin, PhD

LOEX/ Université Laval

Anie Philip, PhD

McGill University

Dieter Reinhardt, MSc, PhD

McGill University

Joshua Vorstenbosch, MD, PhD, FRCSC

McGill University, Royal Victoria Hospital



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tissulaire et génique du Québec**

Skin Research Group of Canada 2023 Program

THURSDAY, 9 NOVEMBER

12:00 - 12:05pm	Opening Remarks by SRGC 2023 meeting co-chairs and SRGC President
12:05 - 12:30pm	SRGC Invited Lecture I <i>Moderator: Dr. Dieter Reinhardt, McGill University</i> Skin regeneration and skin stem cells in health and disease Dr. Lucie Germain - Université Laval (LOEX)
12:30 - 1:55pm	Plenary Session I – SHORT TALKS <i>Moderator: Dr. Julie Fradette, Université Laval (LOEX)</i>
12:30 - 12:43pm	Fibrillin-1-mediated mechanisms in adipose tissue development and maintenance IramFatima Siddiqui, McGill University
12:44 - 12:57pm	Exploring dermal collagen phenotype at the nanoscale Laurent Bozec, University of Toronto
12:58 - 1:11pm	Histological analysis of tissue integrity in Bilayered reconstructed skin produced from cryopreserved dermis with Ice Recrystallization Inhibitors (IRI) Mohamed Nour Labidi, Université Laval
1:12 - 1:25pm	Placental Growth Factor (PlGF): A novel therapeutic target in skin fibrosis Elodie Mareux. LOEX, Université Laval
1:26 - 1:39pm	BLR-200 Blocks the Progression of Experimental Bleomycin-Induced Dermal Fibrosis via Multiple Signaling Pathways John Nguyen, University of Saskatchewan
1:40 - 1:53pm	Matrix production and Contraction: The myofibroblast two-face personality? Raquel Benitez, University of Toronto
2:00 - 3:00pm	SRGC Keynote Lecture I
	Immune-mediated adaptative and maladaptive tissue responses Dr. Shruti Naik, NYU
	<i>Moderator: Dr. Mélanie Laurin, Université Laval</i>
3:00 - 3:15pm	Poster session I
3:15 - 4:00pm	Plenary Session II – FLASH TALKS <i>Moderator: Dr. Andrew Leask, University of Saskatchewan</i>

3:15 - 3:18pm	Trends in Melanoma in Nova Scotia from 2007-2018, a Retrospective Review Rachel Dorey, Dalhousie University
3:19 - 3:22pm	Understanding the progression of pre-malignant to invasive cutaneous squamous cell carcinoma Eliana-Ruobing Zhang, McGill University
3:23 - 3:26pm	Unravelling the role of ARHGEF3 during hair follicle morphogenesis Krithika Kalyanakrishnan, Université Laval
3:27 - 3:30pm	Evaluating AIPDerm's AI Engine in Detecting 17 types of Benign and Malignant Growths Katrina Cirone, University of Manitoba
3:31 - 3:34pm	Association of Vitiligo and Mental Health Outcomes: A Systematic Review and Meta-Analysis Daud Manzar, McMaster University
3:35 - 3:38pm	Differentiation of Epithelial Stem Cells into Mature Sebocytes in Human Reconstructed Skin Models Bettina Cattier, LOEX, Université Laval
3:39 - 3:42pm	CD109 is an essential regulator of IL6R α alpha signalling and responses in patient derived oral SSC organoids Amani Hassan, McGill University
3:43 - 3:46pm	Skin photoaging following sun exposure is associated with decreased epigenetic age and correlates with basal cell carcinoma phenotype Richie Jeremian, McGill University
4:10 - 5:30pm	SKiN Canada Workshop I: Patient Engagement Sessions

FRIDAY, 10 NOVEMBER

12:00 - 12:05pm	Welcome Remarks
12:05 - 12:35pm	Plenary Session III – FLASH TALKS <i>Moderator: Dr. Véronique Moulin, Université Laval (LOEX)</i>
12:05 - 12:08pm	Ten-year Data on Canadian Medicolegal Trends for Laser Therapy from 2013 to 2022 Yvonne Deng, University of British Columbia
12:09 - 12:12pm	The natural compound curcumin induces fibroblast senescence Siwei Chu, McGill University
12:13 - 12:16pm	Skin Cancer Prevention across the G7, Australia and New Zealand: A Review of Legislation and Guidelines Santina Conte, University of Toronto

12:17 - 12:20pm	Predictors of Surgical Outcomes in Hidradenitis Suppurativa: A Scoping Review Wei Guang Bi, Western University
12:21 - 12:24pm	Follow-up of Cutaneous Squamous Cell Carcinoma (FOCS): A Multicentre Retrospective Cohort Study Jorge Georgakopoulos, University of Toronto
12:25 - 12:28pm	Oral Tranexamic Acid in the Prevention and Treatment of Hyperpigmentation Disorders in Skin of Color: A Scoping Review Vincent Wan, University of British Columbia
12:29 - 12:32pm	A Systematic Review on Treatment Outcomes of Striae Catherine Zhu, McGill University
12:35 - 1:00pm	SRGC Invited Lecture II <i>Moderator: Dr. Anie Philip, McGill University</i>
	Molecular basis of inflammatory skin diseases Dr. Carolyn Jack, McGill University
1:00 - 2:00pm	SRGC Keynote Lecture II
	Regeneration in Response to Injury: Lessons Learned from the Fetus Dr. Ken Liechty, University of Arizona
	<i>Moderator: Dr. Anie Philip, McGill University</i>
2:00 - 3:30pm	Plenary Session IV – SHORT TALKS <i>Moderator: Dr. Jeff Biernaskie, University of Calgary</i>
2:00 - 2:13pm	Lipid metabolism variations in a tissue-engineered skin model Andréa Tremblay, LOEX, Université Laval
2:14 - 2:27pm	Study of the role of CGRP in psoriasis through tissue engineering Rémy Pépin LOEX, Université Laval
2:28 - 2:41pm	Extracellular Granzyme B: A Novel Therapeutic Target for Accelerated Healing in Cutaneous Leishmaniasis Layla Nabai, University of British Columbia
2:42 - 2:55pm	Cutting it Close: Five-Year Retrospective Chart Review of Melanoma Guideline Adherence in Northern British Columbia Valérie Doyon, Université de Montréal
2:56 - 3:09pm	Biomarkers in rosacea: A systematic review Ryan Geng, University of Toronto
3:10 - 3:23pm	McGill Adult Atopic Dermatitis Digital Outcomes (MAADDO) Study: Development and Usability Testing of the EczemaQ Mobile Application Kaiyang Li, McGill University
3:30 - 3:45pm	Poster session II
3:45 - 4:00pm	Ceremony Awards
4:00 - 5:30pm	SKiN Canada Workshop II: Trainee Educational Sessions

Skin Research Group of Canada 2023

SRGC Invited Lecture

THURSDAY 9 NOV 12:05 – 12:30PM

“Skin regeneration and skin stem cells in health and disease”



Lucie Germain, PhD
Université Laval (LOEX) (Canada)

Dr. Lucie Germain pursues a career in regenerative medicine. Her work is dedicated to postnatal epithelial stem cells and the reconstruction of human tissues for experimental and clinical applications. She has received the Léo Pariseau Award of ACFAS (2022) and was introduced in 2023 as a Fellow of the Tissue Engineering and Regenerative Medicine International Society.

The LOEX team has invented a new method of tissue engineering, the self-assembly approach and applied it to produce a bilayer skin substitute which is very similar to native skin and allows the preservation of stem cells, and a reconstructed human cornea. Dr. Germain current research on skin includes the improvement of tissue-engineered skin substitutes (pigmentation, addition of hair and glands) and the combination of gene therapy with tissue engineering to develop a treatment for epidermolysis bullosa. The funding is from Canadian Institutes of Health Research (CIHR), the Stem Cell Network, the Fonds de recherche du Québec en Santé (ThéCell) and the Fondation des Pompiers du Québec pour les Grands Brûlés (FPQGB).

Her work led to three clinical trials involving engineered-tissues produced in vitro applied to the treatment of venous ulcers, severely burned patients and limbal stem cell deficiency of the cornea.

Skin Research Group of Canada 2023

SRGC Invited Lecture

FRIDAY 10 NOV 12:35 – 1:00PM

“Molecular basis of inflammatory skin diseases”



Carolyn Jack MD, PhD
McGill University, Canada

Dr. Carolyn Jack (MDCM, PhD, FRCPC) is an Assistant Professor, Dermatology, at McGill University, and a Junior Scientist at the Infectious Diseases and Immunity in Global Health Program of the Research Institute of the McGill University Health Centre.

In 2018, Dr. Jack founded the McGill University Hospital Network Center of Excellence for Atopic Dermatitis, the first tertiary care centre in Canada dedicated to adult atopic dermatitis. She is the co-founder of EczemaQ, an award-winning mobile health application, and the registered non-profit Patient Advisory Committee known as Eczéma Québec. As an FRQS Clinical Research Scholar, her research goal is to identify disease-modifying interventions in chronic atopic dermatitis.

Skin Research Group of Canada 2023

SRGC Keynote Lecture

THURSDAY 9 NOV 2:00 – 3:00PM

“Immune-mediated adaptative and maladaptive tissue responses”



Shruti Naik, PhD

NYU Grossman School of Medicine, New York (USA)

Dr. Shruti Naik is an Assistant Professor and the Associate Director of the Colton Center for Autoimmunity at NYU Grossman School of Medicine. She is an international leader in immunology and stem cell biology. Her lab studies the crosstalk between immune cells and tissue stem cells in the skin and gut with a focus on 3 major areas of research:

- 1) inflammatory memory and autoimmunity,
- 2) tissue repair,
- 3) host-microbe interactions.

Naik is a strong advocate for increasing diversity in science and promoting the advancement of underrepresented and marginalized groups. She has been recognized for her research and advocacy through numerous accolades including the International Takeda Innovators in Science Award, Pew-Stewart Scholar, Packard Fellowship, NIH Directors Innovator Award and is a NYSCF Robertson Investigator.

Skin Research Group of Canada 2023

SRGC Keynote Lecture

FRIDAY 10 NOV 1:00 – 2:00PM

“Regeneration in Response to Injury: Lessons Learned from the Fetus”



Ken Liechty, PhD
University of Arizona (USA)

Ken Liechty, MD, is the division chief of pediatric surgery in the University of Arizona College of Medicine – Tucson’s Department of Surgery, as well as director of fetal medicine at Banner – University Medicine and surgeon-in-chief of Banner Children’s at Diamond Children’s Medical Center.

Dr. Liechty received undergraduate and medical degrees from the University of Utah. He went on to receive certifications in general surgery from the University of Pennsylvania (UPENN) and fetal and pediatric surgery from the Children’s Hospital of Philadelphia (CHOP). He stayed on as faculty at CHOP and UPENN for five years as a fetal and pediatric surgeon and basic science researcher. For the last eight years, Dr. Liechty was co-director of the Children’s Hospital Colorado Fetal Care Center and director of Pediatric Surgery Basic and Translational Research.

Dr. Liechty is internationally recognized for his clinical care in fetal medicine and his research in wound healing and regeneration. His laboratory, which has been continuously funded for the last 18 years, is the source of many patents and two companies. He has trained numerous medical students, residents and fellows who have gone on to academic surgical positions.

Thursday 9 NOV | 4:10 – 5:30PM

SKiN Canada Workshop I

Patient Engagement Sessions



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Friday 10 NOV | 4: – 5:30PM

SKiN Canada Workshop II

Trainee Educational Sessions

Nitika Pai, PhD. McGill University

«Oh Melanin- did you just skin me? Colorism and its impact on EDI in the workplace»

Diego Herrero, PhD. McGill University

«Equity, Diversity and Inclusion. Approaches to Enhance Innovation and Social Relevance of Research Projects»



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