



# **Pathophysiological Insights into Atopic Dermatitis and New Therapeutic Developments**

**Wednesday, 10 May 2023 • 12:00-15:00 JST • Tokyo, Japan  
Keio Plaza Hotel Tokyo • Fuji Room**

***An International Eczema Council  
Symposium at the 2023 Meeting of the  
International Societies for Investigative Dermatology (ISID)***

## AGENDA

**12:00–12:10**

### Welcome and Program Overview

Robert Bissonnette, MD FRCPC MSc, Montréal, QC, Canada  
Kenji Kabashima, MD PhD, Kyoto, Japan

**12:10–12:30**

### Endotypes of Atopic Dermatitis

Yoshiki Tokura, MD PhD, Kakegawa, Japan

**12:30–13:00**

### Neuroinflammatory Circuits

Gil Yosipovitch, MD FAAD, Miami, FL, USA

**13:00–13:15**

### Flash Talk 1: High-Dimensional Analysis Identifies Variably Persistent Activated Skin-Homing Th2/Tc2 Populations in Atopic Dermatitis Patients on Dupilumab

Carolyn Jack, MDCM PhD FRCPC, Montréal, QC, Canada

**13:15–13:30**

### Flash Talk 2: The Role of OX40/OX40L Axis in Atopic Dermatitis

Kazuhiko Yamamura, MD PhD, Fukuoka, Japan

**13:30–13:45**

### Break

**13:45–14:05**

### Systemic Inflammation in Atopic Dermatitis

Patrick Brunner, MD MSc, New York City, NY, USA

**14:05–14:25 PM**

### Identifying Early Predicting Factors for Atopic Dermatitis and Atopy

Helen He, MD, New York City, NY, USA

**14:25–14:45 PM**

### Biomarkers Helping with Atopic Dermatitis Therapeutic Development

Emma Guttman, MD PhD, New York City, NY, USA

**14:45–15:00 PM**

### Closing Comments and Adjournment

Emma Guttman, MD PhD, New York City, NY, USA  
Carolyn Jack, MDCM PhD FRCPC, Montréal, QC, Canada

## IEC PRESIDENT



### Robert Bissonnette, MD FRCPC, IEC President

Robert Bissonnette is the president of the IEC. He is board certified in dermatology and the president of Innovaderm Research—a contract research organization (CRO) specializing in the design, conduct, and analysis of clinical trials in various areas of dermatology—in Montréal, QC, Canada. He has published over 220 articles and book chapters and gives lectures on various aspects of dermatology at national and international meetings.

Dr. Bissonnette earned his medical degree from the University of Montréal, underwent residency training in dermatology at the University of Montréal, and completed his basic and clinical research training at McGill University and the University of British Columbia. He was an associate professor of dermatology at the University of Montréal until 2004.

## PROGRAM CO-CHAIRS



### Kenji Kabashima, MD PhD, IEC Secretary

Kenji Kabashima is a professor who chairs the Department of Dermatology at Kyoto University Graduate School of Medicine in Japan and a principal investigator at the A\*Star Research Skin Labs (A\*SRL) and Singapore Immunology Network (SIgN) in Singapore.

His main research interests include the mechanism of inflammatory skin diseases (atopic dermatitis, contact dermatitis, and psoriasis) in humans and mice and 3D visualization of the skin using two-photon microscopy.

Kabashima graduated from Kyoto University in Kyoto, Japan, before training in medicine/dermatology at the U.S. Naval Hospital in Yokosuka, Japan; Kyoto University Hospital; and the University of Washington Medical Center.

At Kyoto University, he started his research on lipid mediators in immunology, which led to a PhD. Kabashima also studied at Kyoto University Graduate School of Medicine's Department of Dermatology; the University of California, San Francisco; and the University of Occupational and Environmental Health Japan.

Kabashima's hobbies include running marathons with finish times under 3 hours, trail running (like the 166-km [103-mile] Ultra-Trail du Mont-Blanc), climbing, golfing, and traveling.

## PROGRAM CO-CHAIRS (CONTINUED)



### **Emma Guttman, MD PhD, Immediate Past President and IEC Cofounder**

Emma Guttman-Yassky is the system chair of the department of dermatology and the Waldman Professor of Dermatology and Immunology at the Icahn School of Medicine at Mount Sinai, New York. She is the director of the Center of Excellence in Eczema and the Laboratory for Inflammatory Skin Diseases.

Dr. Guttman's major research focus areas are atopic dermatitis (AD)/eczema and alopecia areata. Her research made paradigm-shifting discoveries on the immunologic basis of AD in adults and children with AD, enriching the understanding of the pathophysiology of this common disorder, opening the door for novel, pathway-specific drugs in this disease. Recently, she extended her research interest to hair loss disorders such as alopecia areata and scarring hair loss disorders, chronic hand eczema, keloids, ichthyosis, and other skin diseases, in which her findings are also translated to novel therapeutics.

Dr. Guttman cofounded the International Eczema Council (IEC) and is its immediate past president. She has received many national and international awards (such as the AAAAI Award for Scientific Innovation and for pioneering discoveries, AAD Young Investigator award). She was elected as a member to the American Society for Clinical Investigation (ASCI) and the American Dermatological Association (ADA). Dr. Guttman is often a keynote and plenary speaker in international and national meetings and has authored over 300 peer-reviewed publications.

She earned her MD from Sackler School of Medicine at the Tel-Aviv University and a PhD from the Bar-Ilan University, Israel. After her Israeli Board certification in dermatology in Israel, Dr. Guttman moved to the U.S. to pursue a 2-year postdoctoral fellowship at The Rockefeller University in the Laboratory for Investigative Dermatology. Upon completion of her fellowship, she became board-certified by the American Board of dermatology after a second dermatology residency training at Weill-Cornell Medical College, in NY.



### **Carolyn Jack, MD PhD FRCP, IEC Associate**

Carolyn Jack is an assistant professor 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 cofounder of EczemaQ, an award-winning mobile health application, and the registered nonprofit Patient Advisory Committee known as Eczéma Québec. As a clinician scientist, her research goal is to identify disease-modifying interventions in chronic atopic dermatitis.

## LEARNING OBJECTIVES

1. Define the pathogenesis of atopic dermatitis, especially from the perspective of endotypes of atopic dermatitis.
2. Discuss how chronicity and aggravation of atopic dermatitis are induced in terms of neuro-immune interaction.
3. Review the relationship between localized lesions of atopic dermatitis and systemic inflammation.
4. Identify early predicting factors and biomarkers for atopic dermatitis and atopy.

## FACULTY



### **Patrick Brunner, MD MSc, IEC Councilor**

Since 2021, Dr. Brunner has been an associate professor of dermatology at the Icahn School of Medicine at Mount Sinai in New York City, NY, USA, where he is also director of the Cutaneous Lymphoma Clinic at the The Kimberly and Eric J. Waldman Department of Dermatology. As a clinician scientist with a strong interest in skin immunology, he sees patients suffering from primary cutaneous immune cell malignancies and also has a general interest in chronic inflammatory skin diseases such as vitiligo, atopic dermatitis, alopecia areata, and scarring alopecias. His research is aimed at a better understanding of the tumor immunobiology in cutaneous lymphomas, and to develop better treatment modalities for this patient population.

Dr. Brunner obtained his MD from the Medical University of Vienna, Austria. He completed his residency in dermatology at the Department of Dermatology at the Medical University of Vienna (General Hospital Vienna), under the mentorship of Dr. Georg Stingl. Afterward, Dr. Brunner joined the Laboratory for Investigative Dermatology at The Rockefeller University in New York, obtaining a master's degree in clinical and translational sciences and performed research on atopic dermatitis under the mentorship of Drs. Emma Guttman and James G. Krueger. In 2018, he returned to Vienna to build a research group focusing on cutaneous immunobiology of chronic inflammatory skin diseases and primary cutaneous lymphomas, to better understand how individual immune cells orchestrate skin inflammation in benign and malignant conditions.

## FACULTY (CONTINUED)



### Helen He, MD

Helen He is a resident in dermatology at Icahn School of Medicine at Mount Sinai in New York City, NY, USA. Dr. He has published several molecular and proteomic phenotyping studies in atopic dermatitis and other skin conditions, including the first cutaneous single-cell RNA-sequencing profile of atopic dermatitis. She received her BS in biological engineering at the Massachusetts Institute of Technology and her MD at Icahn School of Medicine at Mount Sinai.



### Yoshiki Tokura, MD PhD

Dr. Tokura is the director of the Allergic Disease Research Center at Chutoen General Medical Center in Kakegawa, Japan. His areas of interest center around immunology/allergy, cutaneous lymphomas, and photobiology.

Dr. Tokura has served as a leader in many societies, including as president of the Japanese Society for Investigative Dermatology (JSID) 2008-2011, president of the Japanese Society for Cutaneous Immunology and Allergy (JSCIA) 2017-2019, and vice president for the Japanese Dermatological Association (JDA) 2018-2020. He served as secretary-general of the International Investigative Dermatology (IID) in 2008 in Kyoto. In addition to his extensive authorship, he has served as editor-in-chief for the *Journal of Dermatological Science (JDS)* (2013-2018) and for *The Journal of Dermatology (JD)* (2011-2013).

He earned his MD in 1982 and his PhD in 1988, both from the Hamamatsu University School of Medicine in Hamamatsu. In 1989, he became visiting researcher at Yale University. From 2002 to 2010, he was professor and chair of the University of Occupational and Environmental Health Japan. He returned to Hamamatsu University as professor and chair in 2011, leaving in 2021 as professor emeritus in 2021.



### Kazuhiko Yamamura, MD PhD

Dr. Kazuhiko Yamamura is assistant professor of dermatology at Kyushu University Hospital in Fukuoka, Japan. Atopic dermatitis is one of his areas of focus. In addition to his other publications in peer-reviewed journals, he coauthored two articles on atopic dermatitis in 2022: "The Dawn of a New Era in Atopic Dermatitis Treatment" and "Identification of a Functional DOCK8 Gene Polymorphism Associated with Atopic Dermatitis."

Dr. Yamamura received his MD from Saga University School of Medicine in 2006 and his PhD in 2017 from Kyushu University's Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation.

His professional experience and training includes clinical, research, and academic work. After receiving his MD, he completed his residency at Kyushu University Hospital and worked in the dermatology departments of both Hamanomachi Hospital and the Hiroshima Red Cross Hospital & Atomic-Bomb Survivors Hospital. He then completed a research fellowship in Kyushu University's Department of Dermatology. After receiving his PhD, he worked in Moji Hospital's dermatology department before serving as a visiting professor for 3 years in the Laboratory of Investigative Dermatology at the Rockefeller University in New York City, NY, USA. He then returned to Japan and began his current position.



### Gil Yosipovitch, MD, IEC Councilor

Gil Yosipovitch, MD, is a tenured professor and Stiefel-endowed Chair of Medical Dermatology at the Dr. Phillip Frost Department of Dermatology at the University of Miami Miller School of Medicine in Miami, FL, USA. He is the director of the Miami Itch Center, which focuses on chronic itch as a disease state. Prior to joining the faculty of University of Miami, Dr. Yosipovitch was founding chair of Temple University's Department of Dermatology and directed the first translational, clinical and research center dedicated to the study of chronic itch in the USA.

He has published more than 550 articles in books and peer-reviewed journals and has edited 5 books. He is the founder and past president of the International Forum for the Study of Itch and a member of its board. He served as chair of the Scientific Board of the National Eczema Association and member of the Scientific Board of The National Psoriasis Foundation.

Dr. Yosipovitch serves on the editorial boards of seven key specialty journals. He received Marion B. Sulzberger, MD, Memorial Award & Lectureship at the 2016 American Academy of Dermatology meeting for his work on itch. He has given more than 500 invited lectures to dermatology groups and organizations around the world and has mentored more than 40 fellows, PhD students, and postdoctoral fellows.

## IEC THANKS OUR CORPORATE SUPPORTERS

The support of our corporate partners makes it possible for the International Eczema Council (IEC) to advance its mission of increasing the understanding of atopic dermatitis and promoting its optimal management through research, education and patient/family care. Learn how to join these companies in advancing the IEC mission; visit [eczemacouncil.org/corporate-membership](https://eczemacouncil.org/corporate-membership) and email CEO Alan Stiles at [astiles@eczemacouncil.org](mailto:astiles@eczemacouncil.org).

### PRESIDENT'S COUNCIL



### EXECUTIVE COUNCIL



### DIRECTOR'S COUNCIL



### COUNCILOR'S COUNCIL



### SEE IEC RESEARCH ON CLIMATE CHANGE DURING A POSTER SESSION AT ISID

Lead author Sheng-Pei Wang, MD MPH, will present a poster based on IEC research at the ISID meeting.

"Impact of Climate Change on Atopic Dermatitis: A Systematic Search and Review by the International Eczema Council" will be poster LB1687. Dr. Wang will be available to discuss the research during Poster Session I on Thursday, 11 May, from 18:10-19:40 in the Poster Hall (NS Building, which is 5-minute walk from the main venue).

The poster summarizes a systematic search investigating the impact of 10 climatic hazards on atopic dermatitis. The study found that all the studied climatic hazards had theoretical or empirical evidence for aggravating different aspects of atopic dermatitis, including pathogenesis, prevalence, healthcare utilization, and disease severity, with minimal evidence for improvement. Direct, indirect, and synergistic effects are identified.

Dr. Wang, who is presenting the poster, is the recipient of the IEC's 2022 Clinical Fellowship, a program which has allowed her to work with IEC Councilor Dr. Lawrence Eichenfield. The 16 authors also include IEC Councilors Katrina Abuabara, Valeria Aoki, Sara J. Brown, Sandipan Dhar, Lawrence Eichenfield, Carsten Flohr, Alan Irvine, Jenny E. Murase, and Jacob P. Thyssen and IEC Associate Raquel Leão Orfali.



# INTERNATIONAL ECZEMA COUNCIL

## ABOUT THE INTERNATIONAL ECZEMA COUNCIL

Founded in late 2014 and led by dermatologist and allergist experts in atopic dermatitis, the International Eczema Council (IEC) is a global nonprofit organization.

### Mission

The IEC brings together dermatology experts on atopic dermatitis to:

- Identify and prioritize unmet needs for research related to atopic dermatitis.
- Facilitate atopic dermatitis research that addresses these needs.
- Disseminate evidence-based information about atopic dermatitis and its optimal management to healthcare professionals and the public through direct communication and in conjunction with other organizations.
- Promote good practices in the care of patients with atopic dermatitis worldwide.
- Collaborate with physicians, scientists, and stakeholder organizations around the world.

### Global Leadership and Expertise

The IEC is governed by a 14-person Board of Directors comprising leading international experts in atopic dermatitis and a layperson who is an atopic dermatitis patient.

Atopic dermatitis experts from around the globe serve in an advisory role as Councilors and Associates, contributing their expertise to support the IEC's research, programs, events, and education. The IEC has 124 Councilors and Associates in 28 countries, and this group continues to grow.

### Upcoming Symposia

Through our symposia, the IEC disseminates evidence-based information about atopic dermatitis and its optimal management to healthcare clinicians and researchers throughout the world. One of the ways we share information is through symposia presented by our experts at major world dermatological and allergy meetings. Plan to join us for these important presentations at meetings you plan to attend in 2023.

**Pathophysiology, Diagnosis, and Treatment of Atopic Comorbidities in Atopic Dermatitis Patients:**

May 26, at RADLA in Curitiba, Brazil

**Non-Atopic Challenges in Atopic Dermatitis Patients:** July 3, at WCD in Singapore

**Pruritus in Patients with Atopic Dermatitis:** October 14, at EADV in Berlin, Germany

**Basic Research Techniques in Atopic Dermatitis:** November 15, at ISDS in Vienna, Austria

Go to [eczemacouncil.org/symposia](https://eczemacouncil.org/symposia) for the updated symposia details and registration.



#### International Eczema Council

8735 W. Higgins Road, Suite 300

Chicago, IL 60631, USA

888.382.3724 (USA)

[info@eczemacouncil.org](mailto:info@eczemacouncil.org)

[EczemaCouncil.org](https://eczemacouncil.org)

Contact IEC CEO Alan Stiles at [astiles@eczemacouncil.org](mailto:astiles@eczemacouncil.org).