Welcome to ICMI 2022!

Dear Colleagues,

Welcome to Seattle for the Society for Mucosal Immunology's 20th International Congress of Mucosal Immunology. It has been some time since our last in person meeting and we are eager to greet you this week. Seattle is home to the world-famous Space Needle and Pike Place Market, as well as several unique museums and other attractions. The conference hotel is just a few steps away from a free shuttle that will take you to many of these places. We trust that you will enjoy your time here and take advantage of the many sites of Seattle and natural beauty of Puget Sound and the Pacific Northwest.

Mucosal immunology is a field with increasingly expanding impact as we become more aware of the importance of the mucosal interface between the resident microbiota and the immune system in health and disease, in addition to the mucosa being the major site for human infections. The International Congress of Mucosal Immunology is SMI’s premier meeting held every two years, bringing together researchers, clinician scientists and industry professionals studying immunology at mucosal surfaces.

The International Program Committee and International Scientific Advisory Committee, with representatives from Australia, England, France, Japan, South Korea and the United States, have assembled an engaging scientific program with leading speakers covering a variety of contemporary topics facing the field.

There will be many opportunities throughout the week to network, as well as exchange and develop ideas. The SMI Board of Councilors is particularly committed to training and developing the next generation of mucosal immunologists. Make sure to take time to engage with the poster sessions and other events to connect with young investigators. We are very pleased to share that this year, we were able to offer travel awards to forty young investigators, who otherwise may not have been able to attend.

We are grateful for our sponsors, including Pfizer, The Helmsley Charitable Trust, Merck Sharp & Dohne, Gates Foundation, and Vaxart, and to SMI for their organizational support. Finally, thank you for joining us in Seattle and supporting the Society for Mucosal Immunology – we hope you have productive conversations, enjoy some good science and have a great time!

Sincerely,

ICMI 2022 International Program Committee

William Busse, MD, University of Wisconsin, Madison
Ellen Foxman, MD, PhD, Yale School of Medicine
Kenya Honda, MD, PhD, Keio University School of Medicine
Molly Ingersoll, PhD, Institut Pasteur
Douglas Kwon, MD, PhD, Harvard University
Clare Lloyd, PhD, Imperial College, London
Laura MacKay, PhD, University of Melbourne
Benjamin Marsland, PhD, Monash University
Joshua Schiffer, PhD, Fred Hutch
Jonathan Spergel, MD, PhD, University of Pennsylvania

Jennifer Lund, PhD
Fred Hutch
ICMI 2022 Co-Chair

Mark Travis, PhD
Manchester University
ICMI 2022 Co-Chair

Steven Ziegler, PhD
Benaroya Research Institute
ICMI 2022 Co-Chair
About ICMI 2022 in Seattle, USA

Registration Desk Hours
Please check in at the ICMI registration desk when you arrive at the Sheraton Grand Seattle, located at the Spruce Registration Desk on the second floor outside the Grand Ballroom.

Saturday, July 16: 14:00 – 17:30
Sunday, July 17: 8:00 – 17:30
Monday, July 18: 8:00 – 17:30
Tuesday, July 19: 8:00 – 17:30

Evaluations
Your feedback matters to us. Please take a moment to complete the overall congress evaluation at socmucimm.org/ICMIsurvey

Do You Need a Certificate of Attendance?
Certificates can be requested by emailing info@socmucimm.org and will be sent electronically after the conclusion of the congress.

WiFi Lounge
Free wireless access available for registered attendees in the Ballroom Foyer.

Online ICMI 2022 Sessions Gallery
View ICMI 2022 session types, rooms, schedule and time slots from the convenience of your computer or mobile device. Scan the QR code and bookmark the page.

Opening Reception
You are invited to join us at the Welcome Reception on Saturday, July 16, from 19:00–20:30. This event is located in the Grand Ballroom Foyer, just outside the Grand Ballroom on the second floor. This is a wonderful opportunity to meet new people, catch up with old friends and enjoy drinks and hors d’oeuvres.

SMI Member Business Meeting
All SMI members are encouraged to join the annual business meeting on Sunday from 8:30–8:55 in the Grand Ballroom. Join us for a financial update, recognition of outgoing board members, celebration of our many committee volunteers and an important update on the future of Mucosal Immunology.

Poster Receptions
Join us for three evenings of poster hall presentations in the Grand Ballroom Foyer & Willow Room. We’ve received more than 150 posters and are eager to meet with these researchers over drinks and light hors d’oeuvres on Sunday, Monday and Tuesday evenings, between 17:00–19:00. Authors should hang their posters the morning of their assigned presentation, by 10:30. All poster receptions sponsored by Mucosal Immunology.

Join the conversation. Share a selfie with your poster using #ICMI2022

SMI Mentorship Program
Join us for scientific talks with the current SMI Mentorship Program Cohort at 15:30 on Tuesday, July 19, in Grand Ballroom BCD.

Alessandra Filardy, PhD Laboratório de Imunologia Celular - TAM receptors play distinct roles in lung homeostasis and inflammation
Devesha Kulkarni, PhD, Washington University School of Medicine - The effects of obesity-associated dysbiotic gut microbiota on the intestinal and adipose tissue inflammation
Ziad Al Nabhani, PhD, Bern University Hospital - Long-term consequences of early life immune-microbial interactions
Joana F. Neves, PhD, King’s College London - Bi-directional signalling between the intestinal epithelium and type-3 Innate Lymphoid Cells (ILC3) regulates their phenotype and function
Danyvid Olivares-Villagómez, PhD, Vanderbilt University Medical Center - Milk-derived osteopontin supports the development of the intestinal immune system and gut microbiota
Principles of Mucosal Immunology Course
The Principles of Mucosal Immunology Course will be held on Saturday, July 16, 2022. Separate registration is required with SMI onsite registrations accepted – either separately or as an add-on to your ICMI 2022 registration. The course is located in the Willow Room at the Sheraton Grand Seattle.

Topics include:
- Adaptive immune responses to the gut microbiota (IgA, CD4 T cells)
  Timothy W. Hand, PhD, UPMC Children’s Hospital of Pittsburgh, University of Pittsburgh
- Immune sensing by epithelial barriers in mucosa
  Isabella Rauch, PhD, Oregon Health and Science University
- Innate lymphoid cells and intestinal inflammation
  Lauren Zenewicz, PhD, The University of Oklahoma, College of Medicine
- Modulation of genital inflammation and disease susceptibility by vaginal microbiota
  Douglas S. Kwon, MD, PhD, Harvard University, Massachusetts General Hospital
- Cellular heterogeneity in the immune system:
  Turning a bug into a feature with single-cell genomics
  Alex K. Shalek, PhD, MIT and Broad Institute
- Early-life education of the mucosal immune system
  Michael Silverman, MD, PhD, University of Pennsylvania, Children’s Hospital of Philadelphia
- Innate defenses against respiratory viruses
  Ellen Foxman, MD, PhD, Yale University School of Medicine
- A career in immunology
  Andreas Bäumler, PhD, UC Davis School of Medicine

ICMI 2022 SCIENTIFIC PROGRAM
SATURDAY, JULY 16

14:00 – 17:30
Registration Desk Open ................................................................. Spruce Registration Desk
outside Grand Ballroom, Level 2

17:30 – 18:00
Official Start of ICMI 2022
Welcome .................................................................................................................. Grand Ballroom
Jennifer Lund, PhD, Fred Hutchinson Cancer Research Center
Mark Travis, PhD, University of Manchester
Steven Ziegler, PhD, Benaroya Research Institute

Opening Remarks & Presentation of Awards
Michael McGuckin, PhD
Distinguished Service Award: Clare Lloyd, PhD, Imperial College, London
Per Brandtzæg Distinguished Scientific Achievement Award: Andrew Macpherson, MD, PhD,
University Clinic of Visceral Surgery and Medicine, University of Bern, Switzerland
Young Investigator Award: Theresa Alenghat, DVM, PhD, Cincinnati Children’s Hospital
& Iliyan Iliev, Weill Cornell Medicine

18:00 – 19:00
Opening Plenary ............................................................................................ Grand Ballroom
Multi-kingdom control or barrier immunity: Context and consequences
Yasmine Belkaid, PhD, National Institutes of Health (NIH)
Opening plenary supported by the Helmsley Charitable Trust.
19:00 – 20:30 Welcome Reception .......................................................... Grand Ballroom Foyer

SUNDAY, JULY 17

8:00 – 17:30 Registration Desk Open .................................................. Spruce Registration Desk outside Grand Ballroom, Level 2

8:30 – 8:55 SMI Membership Annual Business Meeting .................................................. Grand Ballroom
Open to all SMI members

9:00 – 10:30 Plenary Session ................................................................. Grand Ballroom
IL-1 Cytokines Family and Barrier Immunity
Neuronal regulation of Type 2 Immunity
De’broski R. Herbert, PhD, University of Pennsylvania School of Veterinary Medicine
Stromal-immune interactions regulating pulmonary barrier immunity
Clare Lloyd, PhD, Imperial College London
Regulation of IL-33 at mucosal surfaces
Marsha Wills-Karp, PhD, Johns Hopkins Bloomberg School of Public Health

10:30 – 11:00 Coffee Break ................................................................. Grand Ballroom Foyer

11:00 – 12:30 Oral Abstract Sessions
Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

12:30 – 14:00 Network & Lunch
A list of area restaurants is available at the registration desk

14:00 – 15:00 Concurrent Sessions
Genital Tract Immunity .......................................................... Grand Ballroom BCD
Metabolic adaptation controls HIV-1 persistence in macrophages in vivos
Morgane Bomsel, PhD, Institut Cochin Centre De Recherche
Regulation of vaginal tissue immunity in the context of infections
Jennifer Lund, PhD, Fred Hutchinson Cancer Research Center

Upper Airway Diseases and Mucosal Immunity ................................ Metropolitan Ballroom
Dynamic innate immune states of the airway epithelium in defense against respiratory viruses
Ellen Foxman, MD, PhD, Yale School of Medicine
Mucosal inflammation and disease in human upper airway
Robert P. Schleimer, PhD, Northwestern University Feinberg School of Medicine

15:00 – 15:30 Coffee Break ................................................................. Grand Ballroom Foyer

15:30 – 17:00 Oral Abstract Sessions
Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

17:00 – 19:00 Poster Reception .................................................. Grand Ballroom Foyer & Willow Room
Sponsored by MucosalImmunology

19:00 – 21:00 SMI Young Investigator Member Reception ................................ Benaroya Research Institute
Sponsored by Benaroya Research Institute
Note: Invite only; ticket required
MONDAY, JULY 18

8:00 – 17:30  Registration Desk Open................................................................. Spruce Registration Desk

outside Grand Ballroom, Level 2

9:00 – 10:30  Plenary Session................................................................. Grand Ballroom

COVID-19 Pathogenesis Vaccinology

SARS-CoV2 mucosal immunity responses after acute and chronic infection in vivo
Ralph Baric, PhD, UNC Gillings School of Global Public Health

Inflammatory and protective responses to SARS-CoV-2 in hospitalized patients
Peter Openshaw, MD, Imperial College London

Immune memory to SARS-CoV-2
Marion Pepper, PhD, University of Washington

10:00 – 10:30  Coffee Break ................................................................. Grand Ballroom Foyer

11:00 – 12:30  Oral Abstract Sessions

Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

Vaccination at mucosal surface session sponsored by Vaxart

12:30 – 14:00  Network & Lunch

A list of area restaurants is available at the registration desk

14:00 – 15:00  Concurrent Sessions

Microbiota and Infection ......................................................... Grand Ballroom BCD

Impact of the lung microbiome on the innate immune response to respiratory infections
Amanda Jamieson, PhD, Brown University

A role for innate and adaptive immunity to Malassezia yeast in Crohn’s Disease
David Underhill, PhD, Cedars Sinai Medical Center

Therapeutic Advances ................................................................. Metropolitan Ballroom

Epithelial cytokine inhibitors in the treatment of atopic disorders
TBA

Specialized metabolic niches in the gut for IgA plasma cells
Stephanie Eisenbarth, MD, PhD, Northwestern University School of Medicine

15:00 – 15:30  Coffee Break ................................................................. Grand Ballroom Foyer

15:30 – 17:00  Oral Abstract Sessions

Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

17:00 – 19:00  Poster Reception ................................................................. Grand Ballroom Foyer & Willow Room

Sponsored by Mucosal Immunology

MucosalImmunology
TUESDAY, JULY 19

8:00 – 17:30  Registration Desk Open................................................................. Spruce Registration Desk outside Grand Ballroom, Level 2

9:00 – 10:30  Plenary Session................................................................................. Grand Ballroom

Immune-Nervous System Interactions at Mucosal Surfaces

Neuroimmune interactions in Eosinophilic asthma
Matthew Drake, MD, Oregon Health & Science University

Scratching that itch: neuroimmune control of allergic immunity
Caroline Sokol, MD, PhD, Massachusetts General Hospital/Harvard Medical School

Neuroimmune interactions in health and disease
Henrique Veiga-Fernandes, PhD, Fundação Champalimaud

10:00 – 10:30  Coffee Break .................................................................................... Grand Ballroom Foyer

11:00 – 12:30  Oral Abstract Sessions
Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

12:30 – 14:00  Network & Lunch
A list of area restaurants is available at the registration desk upon request

14:00 – 15:00  Concurrent Sessions

Epithelial Control of Mucosal Immunity............................................................... Grand Ballroom BCD

Leveraging single-cell genomics to understand COVID-19
Alex K. Shalek, PhD, Massachusetts Institute of Technology

Small intestinal tuft cells: Sentinels and effectors of type 2 immunity
Jakob von Moltke, PhD, Washington University

Underappreciated Mucosal Sites........................................................................ Metropolitan Ballroom

Divergent regulatory networks driving the allergic inflammation and esophageal epithelial remodeling in Eosinophilic Esophagitis subtypes
Simon P. Hogan, PhD, University of Michigan

Disentangling human tumor immune alterations from non-malignant tissue inflammation
Martin Prlic, PhD, Fred Hutchinson Cancer Research Center

15:00 – 15:30  Coffee Break .................................................................................... Grand Ballroom Foyer

15:30 – 17:00  Oral Abstract Sessions
Please refer to the online ICMI 2022 sessions gallery for presenters, topics & rooms

SMI Mentorship Program Presentations................................................................... Grand Ballroom BCD

TAM receptors play distinct roles in lung homeostasis and inflammation
Alessandra Filardy, PhD Laboratório de Imunologia Celular

The effects of obesity-associated dysbiotic gut microbiota on the intestinal and adipose tissue inflammation
Devesha Kulkarni, PhD, Washington University School of Medicine

Long-term consequences of early life immune-microbial interactions
Ziad Al Nabhani, PhD, Bern University Hospital

Bi-directional signaling between the intestinal epithelium and type-3 Innate Lymphoid Cells (ILC3) regulates their phenotype and function
Joana F. Neves, PhD, King’s College London

Milk-derived osteopontin supports the development of the intestinal immune system and gut microbiota
Danyvid Olivares-Villagómez, PhD, Vanderbilt University Medical Center

17:00 – 19:00  Poster Reception ............................................................................... Grand Ballroom Foyer & Willow Room

Sponsored by Mucosal Immunology
WEDNESDAY, JULY 20

9:00 – 10:30
President’s Rising Stars Abstract Plenary .........................................................Grand Ballroom
Chair: Michael McGuckin, PhD, University of Melbourne

Single-cell RNA sequencing unveils intestinal eosinophil development and specialization
Alessandra Gurtner, PhD Student, University of Zurich

Mucosal fungi promote gut barrier function and social behavior via Type 17 immunity
Irina Leonardi, PhD, Weill Cornell Medical College

Diet at birth conditions successful development of type 2 immunity
Akila Rekima, PhD, Telethon Kids Institute / University of Western Australia

Antibiotic-induced Malassezia spp. expansion in infants elicits intestinal immune dysregulation and increases airway inflammation in mice
Erik van Tilburg Bernardes, PhD, Candidate, University of Calgary

Regulatory T cell coordination of the mucosal NK cell response during viral infection
Sarah Vick, PhD, Fred Hutchinson Cancer Research Center

Presentation of Mucosal Immunology Journal Poster Awards

10:30 – 11:00
Coffee Break

11:00 – 12:30
Plenary .........................................................Grand Ballroom

Immune-Microbe Interactions in Homeostasis and Disease

The intratumoral microbiota impact spatial and cellular heterogeneity within human oral and colorectal cancers
Susan Bullman, PhD, Fred Hutchinson Cancer Research Center

Roles for the gut microbiota in health and disease
Wendy Garrett, MD, PhD, Harvard T.H. Chan School of Public Health

Effects of intestinal microbes and metabolites on shaping innate immunity and regulating homeostasis
Kathy McCoy, PhD, University of Calgary

12:30 – 13:00
Closing Address

About SMI
It is your painstaking research that is uncovering the vast and intricate network of specialist cells, regulatory proteins and genetic expression that make up our immune system.

It is our honor to support you.

The Society for Mucosal Immunology (SMI) was formed in 1987 to advance research and education related to the field of mucosal immunology. Today, the society represents a diverse group of more than 700 scientists and clinicians from all over the world.

Learn more and join us at socmucimm.org.

What are the benefits of SMI membership?

Meetings
Enjoy discounts on SMI events, like the Virtual Principles of Mucosal Immunology Course (July 2023) and the International Congress of Mucosal Immunology (ICMI 2024) in Europe (city to be announced). Members also enjoy discounted abstract submission fees, access to travel grants and childcare travel funds.

Grants & Awards
SMI supports the advancement of immunologists through every step of their career through grants and programs:
• Participate in a competitive Mentorship Program for researchers looking to connect with top leaders in their field
• SMI Childcare Travel Awards offer support for parents who need financial aid for childcare while they attend ICMI
• SMI partners may also receive external meeting support to build programs for mucosal immunologists

More Benefits
• Free registration to the SMI Webinar Series and archive access
• Free access to the society journal Mucosal Immunology
• Reduced submission fees to Mucosal Immunology
• Free job postings in the SMI Career Center
• Access to the SMI membership directory for direct collaboration with other members
• 20% off Principles of Mucosal Immunology textbook

Membership Categories Include:
• Regular - $120 USD (1 year membership)
• Early Career Investigator - $100 USD
• Student/Trainee - $65 USD
• Scientists from Under-Represented Countries - $35 USD
• Emeritus Membership - $55 USD
READY TO PUT THE SPOTLIGHT ON YOUR RESEARCH?

Submit your research: cts.ScienceMag.org
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• 2021 CiteScore: 15.7**
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** Scopus Elsevier 2021 Report