

69<sup>th</sup> Annual

*Montagna Symposium on the Biology of Skin*

## Microbes, Autoimmunity & Cancer

October 20 - 24, 2022

### Program Chair:

Robert L. Modlin, M.D.

### Co-Organizers:

Niroshana Anandasabapathy, M.D., Ph.D., Daniel Kaplan, M.D., Ph.D., John O'Shea, M.D.

### Montagna Symposium Co-Directors:

Sancy Leachman, M.D., Ph.D.

Dennis Roop, Ph.D.

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Salishan Resort  
7760 North Highway 101  
Gleneden Beach, OR, USA 97388

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## Conference Program

### Thursday, Oct 20

2:00 p.m. – 4:00 p.m. Shuttle Bus from PDX Leaves (*reservation required*)

4:00 p.m. -5:45 p.m. Arrival and Check-in

5:45 p.m. – 6:45 p.m. Welcome Reception and introductory comments

*(Heavy appetizers served. Dinner on own)*

**Sancy Leachman, M.D., Ph.D.** (Oregon Health & Science University)

**Robert L. Modlin, M.D.** (University of California, Los Angeles)

6:45p.m.- 7:14p.m

7:15 p.m. – 8:15 p.m. **Keynote: Yasmine Belkaid, Ph.D.** (National Institutes of Health)

“Multikingdom control of skin immunity”

## Friday, Oct 21

7:00 a.m. - 7:55 a.m.	Breakfast
7:55 a.m. - 8:05 a.m.	Introductory Remarks <b>Sancy Leachman, M.D., Ph.D.</b> (Oregon Health & Science University) <b>Robert L. Modlin, M.D.</b> (University of California, Los Angeles)
8:05 a.m. - 8:15 a.m.	<b>Session 1: Microbial immunity and pathogenesis</b> Session Moderator: Daniel Kaplan, M.D., Ph.D.
8:15 a.m. - 8:45 a.m.	<b>Robert L. Modlin, M.D.</b> (University of Los Angeles, California) "Linking immune responses and lipid metabolism to antimicrobial responses in skin"
8:45 a.m. - 8:55 a.m.	Discussion
8:55 a.m. - 9:25 a.m.	<b>Daniel Kaplan, M.D., Ph.D.</b> (University of Pittsburgh) "Cutaneous neurons modulating immune responses"
9:25 a.m. - 9:35 a.m.	Discussion
9:35 a.m. - 9:50 a.m.	<b>Roberto Ricardo-Gonzalez, M.D., Ph.D.</b> (University of California, San Francisco) "Innate type 2 immunity controls hair follicle commensalism by Demodex mites"
9:50 a.m. - 10:10 a.m.	Coffee Break
10:10 a.m. - 10:40 a.m.	<b>Isaac Chiu, Ph.D.</b> (Harvard University) "Neuro-immune interactions in host defense"
10:40 a.m. - 10:50 a.m.	Discussion
10:50 a.m. - 11:20 a.m.	<b>Annemieke de Jong, Ph.D.</b> (Columbia University)

"Recognition of bacterial lipids by human T cells through CD1a"

11:20 a.m. – 11:30 a.m.	Discussion
11:30 a.m. – 11:45 a.m.	<b>Nathan Archer, Ph.D.</b> (Johns Hopkins School of Medicine) "Neutrophil-intrinsic TNF receptor signaling orchestrates host defense against Staphylococcus aureus"
11:45 a.m. – 12 noon	<b>George Agak, MSc, Ph.D.</b> (University of Los Angeles, California) "To trap a pathogen: TH17 cell-mediated extracellular traps release and their role in host defense in acne"
12 noon – 1:15 p.m.	Lunch & Funding Forum
12:30 p.m. – 1 p.m.	<b>Ricardo Cibotti, Ph.D.</b> (NIAMS / NIH) Funding Forum: Emerging challenges and opportunities
1:15 p.m. – 1:25 p.m.	<b>Session 2: The microbiome in infection, autoimmunity and cancer</b> Session Moderator: Robert Modlin, M.D.
1:25 p.m. – 1:55 p.m.	<b>Julie Segre, Ph.D.</b> (National Institutes of Health) "Human Skin Microbiome: Finding Friends and Foes"
1:55 p.m. – 2:05 p.m.	Discussion
2:05 p.m. – 2:35 p.m.	<b>Tiffany Scharschmidt, M.D.</b> (University of California, San Francisco) "Microbiome, Tregs up and coming."
2:35 p.m. – 2:45 p.m.	Discussion
2:45 p.m. – 3:00 p.m.	<b>Erin Chen, M.D., Ph.D.</b> (Stanford) "Defining the functional properties of commensal-induced T cells by redirecting them against a non-native antigen"
3:00 p.m. – 3:15 p.m.	<b>Lynn Petukhova, Ph.D.</b> (Columbia University)

"Monogenic mutations implicate STAT1 in hidradenitis suppurativa pathogenesis."

3:15 p.m. – 3:35 p.m.	Coffee Break
3:35 p.m. – 4:05 p.m.	<b>Heidi Kong, M.D., M.H.Sc.</b> (NIAMS / NIH) "The Microbiome in Human Skin Disease"
4:05 p.m. – 4:15 p.m.	Discussion
4:15 p.m. – 4:45 p.m.	<b>Keisuke (Chris) Nagao, M.D., Ph.D.</b> (NIAMS / NIH) "Intersection of tissue, immunity and the microbiota in skin"
4:45 p.m. – 4:55 p.m.	Discussion
5:00 p.m.	<b>Awards Presentation</b> <ul style="list-style-type: none"><li>• Society of Investigative Dermatology Eugene M. Farber Travel Awards for Young Investigators</li><li>• Japanese Society for Investigative Dermatology Travel Award</li><li>• Korean Society for Investigative Dermatology Travel Award</li><li>• Director's Award for Diversity</li></ul>
5:15 p.m. – 7:00 p.m.	<b>Poster Reception</b> <i>(Heavy appetizers served)</i>
7:00 p.m. – 8:00 p.m.	<b>Wine tasting in Long house lobby (optional)</b> <i>(Light snacks served)</i>

## Saturday, Oct 22

7:00 a.m. – 7:55 a.m.	Breakfast
8:00 a.m. – 8:05 a.m.	Announcements
8:05 a.m. – 8:15 a.m.	<b>Session 3: Autoimmunity</b>

Session Moderator: John O'Shea, M.D.

8:15 a.m. – 8:45 a.m.

**John O'Shea, M.D.** (NIAMS /NIH)  
"Lymphocytes and Superenhancers"

8:45 a.m. – 8:55 a.m.

Discussion

8:55 a.m. – 9:25 a.m.

**Teri Greiling, M.D., Ph.D.** (Oregon Health & Science University)  
"Lupus and the microbiota"

9:25 a.m. – 9:35 a.m.

Discussion

9:35 a.m. – 10:05 a.m.

**Raymond Cho, M.D., Ph.D.** (University of California, San Francisco)  
"Single-cell interrogation of inflammatory skin disease"

10:05 a.m. – 10:15 a.m.

Discussion

10:15 a.m. – 10:35 a.m.

Break

10:35 a.m. – 11:05 a.m.

**Michel Gilliet, M.D.** (Lausanne University Hospital, Switzerland)  
"Targeting immune pathways in inflammatory diseases"

11:05 a.m. – 11:15 a.m.

Discussion

11:15 a.m. – 11:30 a.m.

**Sarah Whitley, M.D., Ph.D.** (University of Pittsburgh)  
"Local IL-23 is required for proliferation and retention of skin-resident memory Th17 cells"

11:30 a.m. – 11:45 a.m.

**Ian Boothby, Ph.D.** (University of California, San Francisco)  
"Early Life Inflammation Primes a Th2-Fibroblast Niche in Skin"

11:45 a.m.

Lunch on own

1:30 p.m.

**FREE TIME / GOLF / CASCADE HIKE**

12:00pm – 2:00pm **Melanoma Prevention Working Group** (Optional, Non-members are welcome, Long House Auditorium)

4:45 p.m. – 5:50pm **Mentorship Mixer**

6 p.m. – 7:15 p.m. **Dinner**

7:15 p.m. – 8:15 p.m. **Keynote: Laura Mackay, Ph.D.** (The University of Melbourne, Australia)  
“Local Immune Protection by CD8+ Tissue-Resident Memory T Cells”

## Sunday, Oct 23

7:00 a.m. – 7:55 a.m. Breakfast

8:00 a.m. – 8:05 a.m. Announcements

8:05 a.m. – 8:15 a.m. **Session 4: Tumor immunology and prevention**  
Session Moderator: Niroshana Anandasabapathy, M.D., Ph.D.

8:15 a.m. – 8:45 a.m. **Niroshana Anandasabapathy, M.D., Ph.D.** (Weill Cornell Medicine)  
“Cancer immune surveillance in tissues: where it begins and ends”

8:45 a.m. – 8:55 a.m. Discussion

8:55 a.m. – 9:25 a.m. **Jean Tang, M.D., Ph.D.** (Stanford)  
“Small molecule and gene therapy approaches for BCC and SCC prevention in rare diseases”

9:25 a.m. – 9:35 a.m. Discussion

9:35 a.m. – 10:05 a.m. **Shruti Naik, Ph.D.** (New York University School of Medicine)  
“Immune-epithelial crosstalk in skin inflammation and repair”

10:05 a.m. – 10:15 a.m. Discussion

10:15 a.m. – 11:00 a.m.	Break
11:00 a.m. – 11:15 a.m.	<b>Liang Deng, M.D., Ph.D.</b> (Memorial Sloan Kettering Cancer Center) "Reprogramming tumor microenvironment by a second-generation recombinant modified vaccinia virus Ankara"
11:15 a.m. – 11:30 a.m.	<b>Zach Garrison</b> (Oregon Health & Science University) "A novel MIF modulator as a melanoma therapeutic"
11:30 a.m. – 11:45 a.m.	<b>Kazumasa Oya, Ph.D.</b> (University of Tsukuba, Japan) "Eribulin mesylate exerts antitumor effects via CD103"
11:45 a.m. – 12:00 p.m.	<b>Sergei Koralov, Ph.D.</b> (New York University School of Medicine) "Clonal evolution and microbial triggers in Cutaneous T Cell Lymphoma pathogenesis"
12:00 p.m. – 1:00 p.m.	Lunch
1:00 p.m. – 1:10 p.m.	<b>Session 5: Immune and biologic intervention</b> Session Moderator: Richard Gallo, M.D., Ph.D.
1:10 p.m. – 1:40 p.m.	<b>Richard Gallo, M.D., Ph.D.</b> (University of California, San Diego) "Pathogen Response in the Skin"
1:40 p.m. – 1:50 p.m.	Discussion
1:50 p.m. – 2:20 p.m.	<b>Eynav Klechevsky, Ph.D.</b> (Washington University in St. Louis) "Regulation and dysregulation of Immune Responses by human skin dendritic cell subsets"
2:20 p.m. – 2:30 p.m.	Discussion
2:30 p.m. – 3:00 p.m.	<b>Philip Scumpia, M.D., Ph.D.</b> (University of Los Angeles, California) "Refining immunomodulatory biomaterials for skin applications"
3:00 p.m. – 3:10 p.m.	Discussion

3:10 p.m. – 3:30 p.m.	Break
3:30 p.m. – 4:00 p.m.	<b>Brian Kim, M.D.</b> (Mount Sinai) “Neuroimmune Regulation of Itch”
4:00 p.m. – 4:10 p.m.	Discussion
5:30 p.m. – 7:30 p.m.	<b>Salmon Bake Dinner</b> <b>Jim and Diane Baker Home</b> (Weather permitting) <i>Shuttle departs at 5:15 p.m. and returns 7:30 p.m.</i>

## Monday, Oct 24

6 a.m. – 8 a.m.	Breakfast and depart
8:30 a.m.	Bus departs for PDX Airport
~11:30 a.m.	Bus arrives at PDX Airport

*Acknowledgements:*

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 Biology of Skin Foundation  
 Dermavant  
 National Eczema Association

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Society for Investigative Dermatology (Eugene Farber Awards)  
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