

68th Annual Meeting

Montagna Symposium on the Biology of Skin

Decoding Complex Skin Disease: Integrating Genetics, Genomics & Disease Biology

Oct. 10 – 14, 2019

Salishan Resort

Gleneden Beach, Ore.

Program Chairs

James T. Elder, M.D., Ph.D.

Johann E. Gudjonsson, M.D., Ph.D.

Montagna Symposium Director

Molly Kulesz-Martin, Ph.D.

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Program

Thursday, Oct. 10

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| 4 – 7 p.m. | Hotel check-in (<i>front desk</i>) and Symposium check-in (<i>Long House Lobby</i>) |
| 6 – 7 p.m. | Opening reception (<i>Council House</i>) |

Keynote Presentation

(*Long House*)

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|------------------|---|
| 7 p.m. | James T. Elder, M.D., Ph.D. (<i>University of Michigan</i>)
Johann E. Gudjonsson, M.D., Ph.D. (<i>University of Michigan</i>)
Welcome and introductions |
| 7:15 – 8:15 p.m. | Paul A. Khavari, M.D., Ph.D. (<i>Stanford University</i>)
"Decoding the Regulome in Polygenic Disease" |

Friday, Oct. 11

FRIDAY MORNING

- 7 - 7:55 a.m. Breakfast (*Council House*)
- 8 a.m. **Molly Kulesz-Martin, Ph.D.** (*Oregon Health & Science University*)
Acknowledgements

Session 1: What Have GWAS Taught Us About Common Skin Diseases?

(*Long House*)

- 8:05 a.m. **Anne Bowcock, Ph.D.** (*Icahn School of Medicine at Mount Sinai*)
Session introduction
- 8:15 a.m. **James T. Elder, M.D., Ph.D.** (*University of Michigan*)
"Psoriasis and Psoriatic Arthritis: Interpreting the Genetic Signals"
- 8:55 a.m. **John B. Harley, M.D., Ph.D.** (*University of Cincinnati*)
"Epstein-Barr Virus and Lupus: The Threat Within"
- 9:35 a.m. **Young Investigator Short Oral Presentation**
Viktoryia Laurylenka, Ph.D. (*University of Cincinnati*)
"EBV is Nominated as an Initiating Factor in Psoriasis Acting Through Associated Genetic Risk Loci"
- 9:50 a.m. Break (*Terrace Room*)
- 10:10 a.m. **Young Investigator Short Oral Presentation**
Bing-Jian Feng, Ph.D. (*University of Utah*)
"Phenotypic, Genomic, and Proteomic Analysis of Psoriatic Arthritis"
- 10:25 a.m. **Richard A. Spritz, M.D.** (*University of Colorado School of Medicine*)
"The Genetic Architecture of Autoimmune Vitiligo"
- 11:05 a.m. **Sara J. Brown, M.D., FRCPE** (*University of Dundee*)
"What Have We Learned from GWAS for Atopic Dermatitis?"
- 11:45 a.m. Lunch (*Council House*)

FRIDAY AFTERNOON

Session 2: Understanding GWAS Signals – Chromatin Structure & Gene Regulation

(Long House)

- 1 p.m. **Bogi Andersen, M.D.** *(University of California, Irvine)*
Session introduction
- 1:10 p.m. **Evan Boyle, Ph.D. Candidate** *(Stanford University)*
“An Expanded View of Complex Traits: From Polygenic to Omnigenic”
- 1:50 p.m. **Tõnu Esko, Ph.D.** *(University of Tartu)*
“Trans-eQTL Meta-Analysis in over 30,000 Blood Samples Identifies Genes and Pathways Affected by Disease-Related Genetic Variants”
- 2:30 p.m. **Young Investigator Short Oral Presentation**
Sheng-Pei Wang, Ph.D. *(National Cheng Kung University, Taiwan)*
“Identifying the Transcriptomic Alterations in Blaschkoid Psoriasis”
- 2:45 p.m. Break *(Terrace Room)*
- 3:05 p.m. **Sarah T. Arron, M.D., Ph.D.** *(University of California, San Francisco)*
“Development of a Prognostic Gene Expression Profile (GEP) for Stratification of Cutaneous Squamous Cell Carcinoma (SCC) Patients by 3-year Risk of Regional or Distant Metastases”
- 3:20 p.m. **Roger Pique-Regi, Ph.D.** *(Wayne State University)*
“Characterizing the Effect of Genetic Variants on Context-Specific Gene Regulation”
- 4:00 p.m. **Manuel Garber, Ph.D.** *(University of Massachusetts Medical School)*
“Mapping and Functionally Characterizing Complex Regulatory Interactions”

Poster Session

(Long House)

- 4:40 p.m. Award presentations *(Long House)*
- National Psoriasis Foundation Outstanding Scientific Achievement Award
 - Society for Investigative Dermatology Eugene M. Farber Travel Awards for Young Investigators
 - Japanese Society for Investigative Dermatology Travel Award
- 4:50 –7 p.m. Poster session and reception *(Long House & Terrace Room)*

Saturday, Oct. 12

SATURDAY MORNING

7 – 7:55 a.m. Breakfast (*Council House*)

8 a.m. **Duncan Chisholm**
Announcements (*Long House*)

Session 3: Transcriptomics: The Single-cell Revolution

(*Long House*)

8:05 a.m. **Johann E. Gudjonsson, M.D., Ph.D.** (*University of Michigan*)
Session introduction

8:15 a.m. **Niroshana Anandasabapathy, M.D., Ph.D.** (*Weill Cornell Medicine*)
“Targeting T cell:DC Cross Talk in the Periphery to Expand Anti-tumor Immunity”

8:55 a.m. **Muzlifah Haniffa, M.D., Ph.D.** (*Newcastle University*)
“Decoding the Developing Human Immune System”

9:35 a.m. **Fabian V. Filipp, Ph.D.** (*Helmholtz Zentrum Munchen, Germany*)
“From Latent Space Learning in Dermatology to Single Cells and Back”

9:50 a.m. Break (*Terrace Room*)

10:10 a.m. **Mrinal K. Sarkar, Ph.D.** (*University of Michigan*)
“Autocrine IFN- κ restricts CRISPR-Cas9 Keratinocyte Transfection”

10:25 a.m. **Michael D. Rosenblum, M.D., Ph.D.** (*University of California, San Francisco*)
“Regulatory T Cells in Skin are Uniquely Poised to Suppress Profibrotic Immune Responses”

11:05 a.m. **Rui Yi, Ph.D.** (*University of Colorado, Boulder*)
“Single Cell Transcriptomic and Open Chromatin Analysis of Developing Skin”

11:45 a.m. Lunch on own

1:30 p.m. Cascade Head Hike – gather in lobby to form carpools to trailhead
OR free time OR golf

SATURDAY EVENING

Non-CME Dinner Session

(Council House)

6 p.m. Dinner – Signature Potlach Salmon Buffet

7:15 – 8:15 p.m. Talk

Sunday, Oct. 13

SUNDAY MORNING

7 – 7:55 a.m. Breakfast *(Council House)*

8 a.m. **Duncan Chisholm**
Announcements *(Long House)*

Session 4 – Immunopathogenesis of Complex Skin Diseases

(Long House)

8:05 a.m. **Dennis Roop, Ph.D.** *(University of Colorado)*
Session introduction

8:15 a.m. **Nicole L. Ward, Ph.D.** *(Case Western Reserve University)*
"Mouse Models of Human Psoriatic Disease"

8:55 a.m. **Johann E. Gudjonsson, M.D., Ph.D.** *(University of Michigan)*
"Comparative Pathogenesis of Psoriasis and Atopic Dermatitis"

9:35 a.m. **Young Investigator Short Oral Presentation**
Jessica Ludwig, B.S. *(Case Western University)*
"KLK6-PAR1 Signaling Links Skin Inflammation with Development of Arthritis"

9:50 a.m. Break *(Terrace Room)*

10:10 a.m. **Angela M. Christiano, Ph.D.** *(Columbia University)*
"Genetics and Immunology of Alopecia Areata"

10:50 a.m. **Young Investigator Short Oral Presentation**
Matthew D. Vesely, M.D., Ph.D. *(Yale University)*
"Immune Inhibitory Receptor PD-1H as a Potential Therapeutic Target in Cutaneous and Systemic Lupus"

11:05 a.m. **J. Michelle Kahlenberg, M.D., Ph.D.** *(University of Michigan)*
"Pathogenesis of Cutaneous Lupus Erythematosus"

11:45 a.m.

Lunch (*Council House*) – **NON-CME Session**

SUNDAY AFTERNOON

Session 5 – Nature & Nurture: Microbiome in Complex Skin Diseases

(*Long House*)

- 1:55 p.m. **James T. Elder, M.D., Ph.D.** (*University of Michigan*)
Session introduction
- 2:05 p.m. **Jose U. Scher, M.D.** (*New York University*)
"Microbiome in Psoriasis and Arthritis: Pathogenesis and Pharmacology"
- 2:45 p.m. **Lloyd S. Miller, M.D., Ph.D.** (*Johns Hopkins University*)
"Interaction of Filaggrin Mutations, Injury and the Skin Microbiome"
- 3:25 p.m. **Young Investigator Short Oral Presentation**
Tatsuya Ogawa, M.D. (*University of Tsukuba, Japan*)
"Loricrin Protects Against Chemical Carcinogenesis But Affects Cancer Immunoediting"
- 3:40 p.m. Break (*Terrace Room*)
- 4:00 p.m. **Young Investigator Short Oral Presentation**
Tamara Terzian, Ph.D. (*University of Colorado*)
"Genetic Determinants of Cutaneous Primary Lymphedema"
- 4:15 p.m. **Shruti Naik, Ph.D.** (*New York University*)
"Choreographing Immunity at the Cutaneous Interface"

SUNDAY EVENING

- 5:30 p.m. Northwest barbecue dinner
At the home of Drs. Jim & Diane Baker, on the beach
Bus departs outside Hotel Lobby 5:15 p.m.
Bus returns 7:30 p.m.
(Weather permitting – alternate site: Cedar Tree)

Monday, Oct. 14

- 7 – 8 a.m. Breakfast (*Council House*)
- 8 a.m. Airport bus loading (*outside Hotel Lobby*)
- 8:15 am Airport bus departs
- 11:15 a.m. Bus arrives PDX Airport