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.

Funding for this conference was made possible (in part) by [2 R13AR009431-54] from the National Institute Of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) and all cofunding support provided the National Institute on Aging (NIA). The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention by trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

Program

Thursday, Oct. 10

4 – 7 p.m. Hotel check-in (front desk) and Symposium check-in (Long House Lobby)

6 – 7 p.m. Opening reception (Council House)

Keynote Presentation

(Long House)

7 p.m. James T. Elder, M.D., Ph.D. (University of Michigan)
Johann E. Gudjonsson, M.D., Ph.D. (University of Michigan)
Welcome and introductions

7:15 – 8:15 p.m. Paul A. Khavari, M.D., Ph.D. (Stanford University)
"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 Laurynenka, 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., FRCP  (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 Immunoeediting"

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