

The 65th annual

Montagna Symposium on the Biology of Skin

presents

The Skin: Our Sensory Organ for Itch, Pain, Touch and Pleasure

October 20 – 24, 2016
Salishan Resort, Gleneden Beach, Oregon, USA

Program Chair
Gil Yosipovitch, MD

Symposium Director
Molly Kulesz-Martin, PhD

Program

Thursday, October 20

THURSDAY EVENING

4:30 pm

Hotel check-in (front desk) and Symposium check-in (in Long House Lobby)

6:00 pm

Opening Reception *(in Council House)*

KEYNOTE SESSION

(in Long House)

7:00 pm

Gil Yosipovitch, MD *(University of Miami)*

Welcome and introductions

7:15 pm

Keynote: **Francis McGlone, PhD**

Professor in Neuroscience; Head, Somatosensory & Affective Neuroscience Group, School of Natural Sciences & Psychology, Liverpool John Moores University

"A symphony in C"

Page 1 of 7

Funding for this conference was made possible (in part) by (2 R13AR009431-51) 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

Friday, October 21

FRIDAY MORNING

7:00 – 7:55 am

Breakfast (in Council House)

8:00 am **Molly Kulesz-Martin, PhD** (*Oregon Health & Science University*)

Welcome and thanks (*in Long House*)

ITCH, PART I

(in Long House)

Session Chair: Ethan Lerner

8:15 am **Ethan Lerner, MD, PhD** (*Harvard Medical School/Massachusetts General Hospital*)

Session introduction

8:20 am **Ethan Lerner, MD, PhD** (*Harvard Medical School/Massachusetts General Hospital*)

“Epidermis as itch receptor”

9:00 am **Earl Carstens, PhD** (*University of California, Davis*)

“Animal models of itch”

9:40 am **Ferda Cevikbas, PhD** (*Anacor Pharmaceuticals*)

“Restoring GABAergic inhibitory control reduces acute and chronic itch in mice”

9:55 am

Break (in Long House Lobby)

10:10 am **Sonja Ständer, MD** (*University of Münster*)

“Neuropathic itch: mechanisms and treatments”

10:50 am **Diana Bautista, PhD** (*University of California, Berkeley*)

“Neuron-immune cell signaling in atopic dermatitis”

11:30 am **Paula Pereira, PhD** (*Harvard Medical School/Massachusetts General Hospital*)

“Spinal PI3K-gamma activation mediates GRPR-related itching transmission in mice”

11:45 am – 1:00 pm

Lunch (in Council House)

Food served from 11:45 am – 12:45 pm

FRIDAY AFTERNOON

ITCH, PART II

(in Long House)

Session Chairs: Ethan Lerner and Cheryl Stucky

1:00 pm **Ethan Lerner, MD, PhD** (*Harvard Medical School/Massachusetts General Hospital*)
Session introduction

1:05 pm **Mark Hoon, PhD** (*National Institute of Dental and Craniofacial Research, NIH*)
"A role for somatostatin in itch"

1:45 pm **Sarah Ross, PhD** (*University of Pittsburgh*)
"A neural basis for the inhibition of itch by counter-stimuli"

2:25 pm
Break (in Long House Lobby)

2:40 pm **Maria Hordinsky, MD** (*University of Minnesota*)
"Neurodermatology: scalp neuropathy as an explanation for the painful, burning symptomatic scalp"

2:55 pm **Quinn Roth-Carter, BA** (*Oregon Health & Science University*)
"Eosinophils increase thymic stromal lymphopoietin expression in keratinocytes"

3:10 pm **Nicole Ward, PhD** (*Case Western Reserve University*)
"Opposing roles for Neurokinin-1 receptor+ skin resident versus circulating immune cells"

POSTER SESSION

3:25 pm **Molly Kulesz-Martin, PhD** (*Oregon Health & Science University*)
Presentation of

- Society for Investigative Dermatology Eugene M. Farber Travel Awards for Young Investigators
- National Psoriasis Foundation Travel Grants
- Montagna Symposium Director's Travel Awards for Fostering Skin Research Among Underrepresented Scientists
- Japanese Society for Investigative Dermatology Travel Award

3:40 – 6:00 pm

Poster Session and Reception (*in Long House Lobby and Long House*)

Saturday, October 22

SATURDAY MORNING

7:00 – 7:55 am

Breakfast (in Council House)

PAIN

(in Long House)

Session Chair: Diana Bautista

- 8:00 am **Diana Bautista, PhD** (University of California, Berkeley)
 Session introduction
- 8:05 am **Allan Basbaum, PhD** (University of California, San Francisco)
 "Cell transplant-mediated regulation of chronic pain and itch"
- 8:45 am **Rebecca Seal, PhD** (University of Pittsburgh)
 "Dorsal horn circuits for chronic pain"
- 9:25 am **Daniel Bruce, BA** (University of Minnesota)
 "Peripherally restricted opioid combination therapy synergizes in multiple pain states"
- 9:40 am
 Break (in Long House Lobby)
- 9:55 am **Cheryl Stucky, PhD** (Medical College of Wisconsin)
 "Optogenetic silencing of CGRP α -expressing cutaneous sensory neurons implicates a role in neuropathic pain"
- 10:35 am **Qiufu Ma, PhD** (Harvard Medical School/Dana Farber Cancer Institute)
 "Identification of spinal circuits transmitting chronic dynamic mechanical pain"
- 11:15 am **Martin Schmelz, MD** (University of Heidelberg)
 "Chronic pain and itch similarities"
- 11:55 am – 1:15 pm
 Lunch on own

SATURDAY AFTERNOON

1:20 pm

Coastal Hills Hike - meet to form carpools to hike trailhead outside hotel lobby OR free time

SATURDAY EVENING

6:15 pm

Banquet Dinner (in Council House)

Nina Jablonski, PhD

Evan Pugh University Professor of Anthropology, The Pennsylvania State University

"Evolution of skin as a sensory organ"

Sunday, October 23

SUNDAY MORNING

7:00 – 7:55 am

Breakfast (in Council House)

TOUCH

(in Long House)

Session Chair: Ellen Lumpkin

8:00 am

Ellen Lumpkin, PhD (*Columbia University Medical Center*)

Session introduction

8:05 am

Jorg Grandl, PhD (*Duke University Medical Center*)

“Transduction of repetitive mechanical stimuli by Piezo ion channels”

8:45 am

Elena Ezhkova, PhD (*Icahn School of Medicine at Mount Sinai*)

“Specification of Merkel cells”

9:25 am

Hironobu Fujiwara, PhD (*RIKEN Center*)

“Hair follicle stem cells define a niche for tactile sensation via secretion of a specialized ECM”

9:40 am

Break (in Long House Lobby)

9:55 am

Ellen Lumpkin, PhD (*Columbia University Medical Center*)

“Molecular and cellular mechanisms of touch”

10:35 am

Victoria Abraira, PhD (*Harvard Medical School*)

“The cellular and synaptic architecture of the mechanosensory dorsal horn”

11:15 am – 12:30 pm

Lunch (in Council House)

Food served from 11:15 am – 12:15 pm

SUNDAY AFTERNOON

PLEASURE

(in Long House)

Session Chair: Francis McGlone

- 12:30 pm **Francis McGlone, PhD** (*Liverpool John Moores University*)
 Session introduction
- 12:35 pm **Helena Backlund Wasling, PhD** (*University of Gothenberg*)
 "Pleasure of touch"
- 1:15 pm **Håkan Olausson, MD, PhD** (*Linköping University*)
 "Touch and unmyelinated tactile afferents"
- 1:55 pm **Saad Nagi, PhD** (*Linköping University*)
 "Expansive mechanoreceptors sensitive to skin stroking in humans"
- 2:10 pm
 Break (in Long House Lobby)
- 2:25 pm **Susannah Walker, PhD** (*Liverpool John Moores University*)
 "Skin touch: More than mechanosensation"
- 3:05 pm **Gil Yosipovitch, MD** (*University of Miami*)
 "The pleasure and reward systems of scratching an itch"
- 3:45 – 5:15 pm

FUTURE DIRECTIONS: APPLYING NEW APPROACHES TO SKIN SENSATION RESEARCH

Moderator: Gil Yosipovitch

Group discussion with all meeting participants on next steps: new partnerships and new treatments, including funding strategies, unmet needs, the obstacles to translation to clinic to be overcome, and government-academic-industry relationships

Panelists: **Frank Liebel, BS** (AVON Products, Inc.)
 Tom Sciascia, PhD (Trevi Therapeutics)
 Hung Tseng, PhD (NIAMS)
 Preeti Hans, MBA (NINDS)

SUNDAY EVENING

- 6:00 pm
 Potlatch Salmon Barbecue
 At the home of Drs. Jim & Diane Baker, on the beach
 (weather permitting - alternative site: Cedar Tree Room at Salishan)
 Buses depart 5:50 & 6:10 pm, return 8:10 & 8:30 pm

Monday, October 24

7:15 – 8:15 am

Breakfast (in Council House)

8:15 am

Airport bus loading (outside hotel lobby)

8:30 am

Airport bus departs