

The 58th annual

Montagna Symposium on the Biology of Skin

presents

Genetic-Epigenetic Basis of Skin Diseases

October 8th – 12th, 2008
Salishan Resort, Gleneden Beach, Oregon

Program Chair

Angela M. Christiano, PhD

Symposium Co-Chairs

Molly Kulesz-Martin, PhD

Jackie R. Bickenbach, PhD

Program

Thursday, October 8

THURSDAY EVENING

KEYNOTE SESSION

4:30 pm

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

6:00 pm

Opening Reception (*Cedar Tree*)

7:00 pm

Angela M. Christiano, PhD

Welcome and Introductions (*Long House*)

7:15 pm

Keynote Talk:

Howard Chang, MD, PhD

"Programming chromatin states by long noncoding RNAs"

Friday, October 9

FRIDAY MORNING

7:00-8:00 am

Breakfast (Long House foyer)

8:00 am **Molly Kulesz-Martin, PhD**

Welcome and Thanks; Announcements

8:15 am **Angela M. Christiano, PhD**

Introduction

GENETIC CONTROL OF SKIN MORPHOGENESIS

Session Chair: Andrzej Dlugosz

8:30 am **Sarah Millar, PhD**

"Wnt signaling in the specification, patterning, and regeneration of ectodermal appendages"

9:00 am **Andrzej Dlugosz, MD**

"Hedgehog/Gli signaling is required for maintenance of an undifferentiated secondary hair germ in telogen"

9:30 am **Carol S. Trempus, MS**

"The T-box transcription factor, Tbx1, abrogates cellular transformation in culture and delays tumor growth in mice"

10:00 am

Break

10:15 am **Arup Kumar Indra, PhD**

"Novel role of Chicken ovalbumin upstream promoter transcription factor (COUP-TF)-interacting proteins 2 (CTIP2) in skin during development"

10:45 am **Maranke Koster, PhD**

"The role of p63 in skin development and ectodermal dysplasias"

11:15 am **Benjamin D. Yu, MD, PhD**

"A RAS allelic series in humans reveals potential mechanisms for skin development and phenotypic variation"

11:45 am **Laura A. Hansen, PhD**

"The epidermal growth factor receptor regulates cell cycle progression at catagen entry"

12:00 – 1:30 pm

Lunch on own

FRIDAY AFTERNOON

EPIGENETICS, SKIN DEVELOPMENT AND DISEASES

Session Chair: Colin Jamora

1:30 pm **Rui Yi, PhD**
 "microRNA-mediated regulation in mammalian skin development"

2:00 pm **Robert M. Lavker, PhD**
 "microRNA-205 enhances keratinocyte survival and migration:
 Implications for squamous cell carcinoma"

2:30 pm **Radhika Atit, PhD**
 "Wnt signaling and dermal cells: Finding mechanisms for dermal
 diseases"

2:45 pm
 Break

3:00 pm **Mangalam Subramanian, MSc**
 "HMG1/N2 Nucleosomal Binding Proteins are involved in the NER-
 global genome repair subpathway by both histone acetylation-
 dependent and histone acetylation-independent pathways"

3:30 pm **Colin Jamora, PhD**
 "Snail-mediated epithelial-leukocytic crosstalk leads to a carcinoma
 phenotype in the skin"

POSTER SESSION

4:00 pm **Jackie R. Bickenbach, PhD**
 Presentation of Eugene M. Farber Travel Awards for Young
 Investigators

4:15 – 6:15 pm
 Poster Reception (*Long House & Long House foyer*)
 Poster tour for residents and clinicians lead by **Andrew Blauvelt, MD,**
 and **David Norris, MD**

Saturday, October 10

SATURDAY MORNING

7:00-8:00 am

Breakfast (Long House foyer)

8:00 am

Announcements

DEVELOPMENTAL GENETICS AND EPIGENETICS

Session Chair: Richard Eckert

8:15 am **Vincent Hearing, PhD**

"The genetic basis of pigimentary skin diseases"

8:45 am **Maite Huarte, PhD**

"Chromatin associated Large Intergenic Non-Coding RNAs (lincRNAs) in cancer and stem cells"

9:15 am **Michael Marks, PhD**

"Melanosome biogenesis and Hermansky-Pudlak Syndrome: Dark tales of unique vesicular transport"

9:45 am **Elena Ezhkova, PhD**

"Ezh2 orchestrates gene expression for the stepwise differentiation of skin stem cells"

10:00 am

Break

10:15 am **Richard Eckert, PhD**

"Polycomb Group Proteins as epigenetic regulators of keratinocyte survival"

10:45 am **Maria Morasso, PhD**

"DLX3 and Tricho-Dento-Osseous Syndrome"

11:15 am **Stephanie H. Shirley, PhD**

"Regulation of Snail family transcription factors in melanoma"

11:30 am **Vladimir Botchkarev, MD, PhD**

"Mechanisms controlling the establishment of tissue-specific chromatin organization in epidermal keratinocytes during skin development"

12:00 pm

Lunch on own

SATURDAY AFTERNOON

1:00 pm

Coastal Hills Hike OR Oregon Coast Aquarium Excursion

*(bus to Aquarium departs from outside hotel lobby at 1:00 pm;
carpools to hike trailhead at 1:10 pm)*

SATURDAY EVENING

6:00 pm

Banquet Dinner (Council House)

Remarks: **Robert M. Lavker, PhD**

Professor, Department of Dermatology,
Northwestern University, Chicago

Sunday, October 11

7:00-8:00 am

Breakfast (Long House foyer)

8:00 am

Announcements

GENETIC BASIS OF DISEASE & GENOMIC APPROACHES

Session Chair: Anne Bowcock

8:15 am

W.H. Irwin McLean, PhD, DSc, FRSE

"Eczema and asthma: Genetics and new therapies"

8:45 am

Anne Bowcock, PhD

"Genetics and epigenetics of psoriasis"

9:15 am

Christophe Cattaïsson, PhD

"Autocrine IL-1 α mediates NF- κ B activation by oncogenic ras in keratinocytes"

9:45 am

Cristina de Guzman Strong, PhD

"The Epidermal Differentiation Complex (EDC): A highly conserved syntenic block harboring regulatory elements including an enhancer in psoriasis-associated LCE3C_LCE3B-del"

10:00 am

Break

10:15 am

Allan Balmain, PhD, FRSE

"Genetic networks and control of skin cancer susceptibility"

10:45 am

Rebecca J. Morris, PhD

"Bone Morphogenic Protein 5 is a candidate keratinocyte stem cell regulatory gene and affects skin tumor susceptibility"

11:15 am

Shirley Russell, PhD

"Keloids: A model for epigenetically altered wound healing"

11:30 am

Carl C. Baker, MD, PhD

"NIAMS funding for genetics and epigenetics research"

11:45 am – 1:15 pm

Lunch on own

SUNDAY AFTERNOON

NOVEL OPPORTUNITIES FOR THERAPIES FOR GENETIC DISEASES

Session Chair: Ervin Epstein

- 1:15 pm **Ervin Epstein, MD**
 "From the bulge to the patient: Studies on BCC carcinogenesis"
- 1:45 am **Julie Segre, PhD**
 "Topographical and temporal diversity of the human skin microbiome"
- 2:15 pm **Patrick Iversen, PhD**
 "RNA-based therapeutics for genetic and infectious disease"
- 2:45 pm **Roger Kaspar, PhD**
 "Development of siRNA skin therapeutics"
- 3:15 pm **Aloysius J. Klingelhutz, PhD**
 "Dyskeratosis congenita: A human model for studying the role of telomere shortening in the aging of skin"
- 3:30 pm
 Break
- 3:45 pm
 Break-out Discussions
 3:45-4:00 - Introduction: **Angela M. Christiano, PhD**
 4:00-4:45 - Small groups discussion
 4:45-5:45 - Reports to plenary

SUNDAY EVENING

- 6:15 pm
 *Potlatch Salmon Bake on the beach at home of **Drs. Diane & Jim Baker***
 Bus departs Salishan at 6:15 pm (weather dependent)
 please note there is no parking available anywhere near the Bakers' house, so you are requested to take the bus and not drive
 (Inclement weather alternate location: Cedar Tree, Salishan, 6:30 pm; will be announced)

Monday, October 12

- 7:30-8:30 am
 Breakfast (Long House foyer)
- 8:45 am
 Airport bus loading *(outside hotel lobby)*
- 9:00 am
 Airport bus departs