

The 55th annual

Montagna Symposium on the Biology of Skin

presents

Signaling to Structures: Skin Appendages, Development and Diseases

October 12th – 16th, 2006
Salishan Resort, Gleneden Beach, Oregon

Program Chairs

Sarah E. Millar, PhD
George Cotsarelis, MD
Andrzej A. Dlugosz, MD

Symposium Co-Chairs

Molly Kulesz-Martin, PhD
Jackie R. Bickenbach, PhD

Program

Thursday, October 12

THURSDAY EVENING

Keynote session

6:00 pm

Opening Reception

7:00 pm

Welcome and Introductions

7:15 pm

Pierre Coulombe

"Functions of keratin intermediate filaments in skin epithelia"

Friday, October 13

FRIDAY MORNING

8:15 am

Sarah Millar, Molly Kulesz-Martin, Jackie Bickenbach
Welcome and Thanks; Announcements

Hair Follicle/Sebaceous Gland Discussion Leader: George Cotsarelis

8:30 am

Angela Christiano
"Sparse hair and sticky fingers: The unexpected consequences of P-cadherin mutations"

9:15 am

Raphael Kopan
"Bi-compartmental communication underlies the proliferative behavior of Notch1-deficient hair follicle keratinocytes"

10:00 am

Break

10:15 am

Diane Thiboutot
"Control of sebaceous gland activity"

11:00 am

Vladimir Botchkarev
"Bone morphogenetic protein (BMP) signaling in the control of skin development, hair growth and tumorigenesis"

11:45 am

Ralf Paus
"The hair follicle: Living a life of (immune) privilege"

12:30 – 1:30 pm

Lunch on own

FRIDAY AFTERNOON

Integument appendages: Beyond hair Discussion Leader: Cheng-Ming Chuong

1:30 pm

John Wysolmerski

"Interactions between PTHrP and BMP signaling regulate embryonic mammary bud outgrowth and nipple development"

2:15 pm

Marja Mikkola

"TNFR and NF- κ B signaling in ectodermal organogenesis"

3:00 pm

Break

3:15 pm

Cynthia Loomis

"The nail unit and distal limb patterning"

4:00 pm

Vu Nguyen

"A genetic screen in the zebrafish to identify genes which are essential for the development of scales"

4:30 pm

Benjamin Yu

"Loss of Sproutys and RTK regulation in the mesenchyme result in split hand malformations"

Poster Reception

4:45 pm

Jackie Bickenbach

Presentation of Farber Travel Awards

Poster Session Introductions and Announcements

5:00 – 6:30 pm

Poster Reception

Andrew Blauvelt and **David Norris**, poster tour guides

FRIDAY EVENING

6:30 pm

Dinner on own

Saturday, October 14

SATURDAY MORNING

Stem cells **Discussion Leader: Jackie Bickenbach**

8:30 am

George Cotsarelis

"Hair follicle stem cells in hair growth and wound healing"

9:15 am

Weimin Zhong

"Mechanisms of stem cell homeostasis"

10:00 am

Carol Trempus

"CD34 is required for skin tumor development in mice"

10:15 am

Break

10:30 am

Fiona Watt

"Stem cell renewal and lineage selection in adult epidermis"

11:15 am

Sarah Millar

"Wnt/ β -catenin signaling in the development of skin appendages"

12:00 pm

James Rheinwald

"Properties of cells expressing markers of keratinocyte and other stratified epithelial lineages derived from human embryonic stem cells"

12:15 pm

Luis Garza

"Balding scalp possesses a normal complement of follicle stem cells and increased expression of genes involved in inflammation"

12:30 pm

Ian Mackenzie

"Intrinsic and extrinsic influences on the behaviour of normal and malignant stem cells"

1:00 pm

Lunch on own; recommend order "to go" if you are joining one of the outings

SATURDAY AFTERNOON

1:30 pm

Coastal Hills Hike or Oregon Coast Aquarium Excursion

*(bus to Aquarium and carpools to hike trailhead depart
from outside hotel lobby at 1:30 pm)*

SATURDAY EVENING

6:00 pm

Banquet Dinner

Room TBA, Salishan Resort

Remarks: Dr. Frances Storrs, MD

*Oregon Health & Science University, Department of Dermatology
Professor Emerita*

Sunday, October 15

SUNDAY MORNING

Epidermis/mesenchyme **Discussion Leader: Sarah Millar**

8:30 am

Cheng-Ming Chuong

"Feather follicle stem cells"

9:15 am

Howard Chang

"Patterning fibroblast differentiation"

10:00 am

Break

10:15 am

Bruce Morgan

"Beyond the bulge: Fate decisions to generate and regenerate the integument"

11:00 am

Radhika Atit

" β -catenin activity levels are critical for dermal development in the mouse embryo"

11:15 am

Beatrice Howard

"Neuregulin3 signaling in epithelial and mammary gland morphogenesis"

11:30 – 12:30 pm

Lunch – Box lunch provided

Emily Epstein, facilitator

Introduction to break-out session tool

SUNDAY AFTERNOON

Signaling in the skin

Discussion Leader: Raphael Kopan

12:30 pm

Andrzej Dlugosz

"Hedgehog signaling in skin appendage development and cancer"

1:15 pm

Xiao-Jing Wang

"Smad7-Induced β -catenin degradation alters epidermal appendage development and differentiation"

2:00 pm

Anthony Oro

"Spatial and temporal regulation of hedgehog signaling during hair follicle morphogenesis"

2:45 pm

Break

3:00 pm

Dennis Roop

"Identification of signaling pathways regulated by p63"

Break out sessions: Translations to New Dermatology Practice

Discussion leaders: Kurt Stenn, Diane Thiboutot, Andrzej Dlugosz, George Cotsarelis, Dennis Roop, Howard Chang

3:45 pm

Break-out session introduction

4:00 – 4:45 pm

Break-out sessions

Break-Out Groups by Topic:

Tissue engineering (Stenn)

Acne (Thiboutot)

Cancer (Dlugosz)

Stem cells (Cotsarelis)

Gene therapy (Roop)

Dermis/mesenchyme (Chang)

4:45 – 5:30 pm

Reports from small group leaders to plenary

5:30 pm

Carl Baker

*Program Director, National Institute of Arthritis and Muscular and Skin Diseases,
NIH*

SUNDAY EVENING

6:15 pm

*Potlatch Salmon Bake on the beach at home of Diane Baker, MD
Bus departs Salishan at 6:15 pm*

Monday, October 16

MONDAY MORNING

Summation

8:00 am

Informal discussion during breakfast

9:00 am

Bus departs Salishan for Portland International Airport (arrival by noon)