

The 60<sup>th</sup> Anniversary

# Montagna Symposium on the Biology of Skin

## Advances in Science and Medicine Catalyzed by Pioneering Skin Research

October 13 – 17, 2011  
Skamania Lodge, Stevenson, Washington

**Program Chair**  
Stuart H. Yuspa, MD

**Symposium Co-Chairs**  
Molly Kulesz-Martin, PhD  
Jackie R. Bickenbach, PhD

### Program

---

#### Thursday, October 13

##### THURSDAY EVENING

##### KEYNOTE SESSION

---

4:30 pm

*Hotel check-in (front desk) and Symposium check-in (Conference Center Foyer)*

6:00 pm

**Opening Reception** *(Conference Center Foyer & adjacent patio)*

7:00 pm

**Stuart H. Yuspa, MD**

Welcome and Introductions *(Stevenson Ballroom)*

7:15 pm

*Keynote Talk:*

**Margaret Kripke, PhD**

“Reflections on the field of photoimmunology”

## Friday, October 14

### FRIDAY MORNING

7:00 – 8:00 am

*Breakfast (Stevenson “A”)*

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

Welcome and Thanks; Announcements

8:05 am **Stuart H. Yuspa, MD**

Introduction and Historical Overview

### Seminal Discoveries in Cancer Biology: D N A R E P A I R

*Session Chair: Kenneth Kraemer*

8:15 am **Kenneth Kraemer, MD**

“DNA repair and skin cancer: Lessons learned from xeroderma pigmentosum”

8:45 am **Laura Niedernhofer MD, PhD**

“DNA repair protects against skin cancer and aging”

9:15 am **Qingyi Wei, MD, PhD**

“DNA repair and overall cancer risk”

9:45 am **Amanda McCullough, PhD**

“DNA repair strategies for the prevention of skin cancer”

10:15 am

*Break*

### Seminal Discoveries in Cancer Biology: H E D G E H O G S I G N A L I N G

*Session Chair: Andrzej Dlugosz*

10:30 am **Andrzej Dlugosz, MD**

“Hedgehog signaling and basal cell carcinoma: Where, when and how”

11:00 am **Anthony Oro, MD, PhD**

“Ciliary basal body components as novel targets for hedgehog-dependent cancers”

11:30 am **Silvia Buonamici, PhD**

“Antagonism of Hedgehog signalling by the small molecule Smoothed inhibitor NVP-LDE225, leads to tumor responses in advanced basal cell carcinoma and recurrent medulloblastoma”

12:00 pm **Ervin Epstein, MD**

“Rational therapy for BCC”

12:30 – 1:30 pm

*Lunch on own (Cascade Dining Room)*

## FRIDAY AFTERNOON

### Seminal Discoveries in Cancer Biology:

#### SIGNAL TRANSDUCTION & CANCER PATHOGENESIS

---

*Session Chair: Stuart Yuspa*

- 1:30 pm      **Stuart Yuspa, MD**  
                  “IL-1a is a major effector of the ras oncogenic program”
- 2:00 pm      **Mitchell Denning, PhD**  
                  “Protein kinase C delta tumor suppressor mechanisms”
- 2:30 pm      **Sarah-Jane Cozzi, PhD**  
                  “Ingenuol mebutate field treatment of UVB-damaged skin removes p53 mutant patches and reduces lesion formation”
- 3:00 pm      **Frank de Gruijl, PhD**  
                  “UV overexposure ablates the epidermal basal layer, p53 mutant foci, and resets UV carcinogenesis, showing squamous cell carcinomas to be of interfollicular origin”
- 3:15 pm      **Wendy Weinberg, PhD**  
                  “Elucidating the contribution of elevated  $\Delta Np63\alpha$  to squamous cancer pathogenesis”
- 3:30 pm      **Ruth White, PhD**  
                  “Micro RNA 9 regulates tumor initiating cell migration and invasion in squamous cell carcinomas”
- 3:45 pm      **Christine Ho**  
                  “Timely intervention for cancer requires knowledge of its earliest genetic aberrations”

## POSTER SESSION

---

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

4:15 – 6:30 pm

**Poster Reception** (*Stevenson “A” and Ballroom*)

Poster tour for residents and clinicians led by **David Norris, MD**

## Saturday, October 15

### SATURDAY MORNING

7:00 – 8:00 am

*Breakfast (Stevenson “A”)*

8:00 am

*Announcements*

## **KERATINS AS DETERMINANT OF HEALTH AND DISEASE**

***Session Chair: Pierre Coulombe***

- 8:05 am      **Pierre Coulombe, PhD**  
                  “Keratins: Major determinants of health and disease in skin”
- 8:45 am      **Angela Christiano, PhD**  
                  “Genetic basis of inherited hair disorders”
- 9:15 am      **Maria Morasso, PhD**  
                  “Retinoic acid-dependent processes of skin barrier formation and peridermal development”
- 9:30 am      **Richard Wang, MD, PhD**  
                  “Akt-mediated regulation of autophagy and tumorigenesis through Beclin 1 phosphorylation and formation of a Beclin 1/14-3-3/type I keratin complex”
- 9:45 am      **Thomas Magin, PhD**  
                  “Keratin 1 controls innate immune responses by restricting caspase-1”
- 10:15 am  
                  *Break*
- 10:30 am     **Sancy Leachman, MD, PhD**  
                  “Novel treatments for keratin mutations in pachyonychia congenita”
- 11:00 am     **Kathleen Green, PhD**  
                  “Where do keratin filaments attach and why?”
- 11:30 am     **Holger Schlüter, PhD**  
                  “Wif-1 and epidermal stem cell regulation in human skin”
- 11:45 am     **Arup K. Indra, PhD**  
                  “Transcription factor Ctip2/Bcl11b is a dynamic regulator of keratinocyte proliferation and differentiation by integrating EGFR and Notch signaling in the developing epidermis”
- 12:00 pm     **Tom Misteli, PhD**  
                  “Nuclear lamins and aging”
- 12:30 pm  
                  *Lunch on own*

### **SATURDAY AFTERNOON**

*Afternoon free. Outing carpools gather outside Conference Center entrance.*

### **SATURDAY EVENING**

6:00 pm

***Banquet Dinner*** (*Stevenson Ballroom*)

**Stephen I. Katz, MD, PhD**

*Director, National Institute of Arthritis and Musculoskeletal & Skin Diseases*

**“From Here to There”**

## Sunday, October 16

### SUNDAY MORNING

7:00 – 8:00 am

*Breakfast (Stevenson “A”)*

8:00 am

*Announcements*

### IDENTITY, CHARACTERIZATION AND APPLICATION OF SKIN STEM CELLS

*Session Chair: Dennis Roop*

8:05 am

**Fiona Watt, DPhil**

“Reciprocal signalling between epidermal stem cells and cells in the niche”

8:45 am

**Yann Barrandon, PhD**

“Microenvironmental control of stem cell behavior”

9:15 am

**Ying Xiao, PhD**

“A perivascular reservoir of stem cells in mouse hair follicle”

9:30 am

**Krzysztof Kobiela, MD, PhD**

“Integration of molecular network between BMP and WNT signaling in hair follicle stem cells regulation”

9:45 am

**Dennis Roop, PhD**

“Testing the therapeutic potential of induced pluripotent stem cells for inherited skin blistering diseases”

10:15 am

*Break*

10:30 am

**Jakub Tolar, MD, PhD**

“Can bone marrow cells cure cutaneous diseases?”

11:00 am

**Yosef Refaeli, PhD**

“Generating a universal donor blood stem cell line”

11:30 am

**Petra Boukamp, PhD**

“TGF $\beta$ /Smad signaling does not regulate stem cell quiescence but has a decisive function in tissue homeostasis and terminal epidermal differentiation”

11:45 am

**Ian Mackenzie, PhD**

“Stem cell heterogeneity in cutaneous squamous cell carcinoma”

12:00 pm

**Michele De Luca, MD**

“Limbal stem-cell therapy and long-term corneal regeneration”

12:30 – 1:30 pm

*Lunch on own (River Rock Lounge)*

## SUNDAY AFTERNOON

### TRANSPLANTATION, IMMUNOSUPPRESSION AND TOLERANCE

Session Chair: Stephen I. Katz

- 1:30 pm        **Stephen I. Katz, MD, PhD**  
                  “Introduction & historical overview: Skin, the birthplace of transplantation immunology”
- 1:45 pm        **Kathryn Wood, DPhil**  
                  “Regulatory T cell-induced prevention of human skin allograft rejection”
- 2:15 pm        **Richard Presland, PhD**  
                  “Proteomic profiling of saliva from patients with chronic graft-versus-host disease”
- 2:30 pm        **Jane Yoo, MD**  
                  “Cd103-deficient mice demonstrate increased susceptibility to both spontaneous and induced skin inflammation”
- 2:45 pm        **Stephen I. Katz, MD, PhD**  
                  “Mechanisms underlying the development of tolerance”
- 3:15 pm  
                  *Break*
- 3:30 pm        **Sarah Arron, MD, PhD**  
                  “Cutaneous squamous cell carcinoma in organ transplant recipients: Infection and inflammation”
- 4:00 pm        **Shay Soker, PhD**  
                  “Bioengineering of solid organs for transplantation”
- 4:30 pm        *Keynote to the Future:*  
                  **Allan Balmain, PhD**  
                  “Skin networks as a window into mechanisms of human disease”

## SUNDAY EVENING *(Columbia Gorge Interpretive Center)*

- 6:00 pm  
                  Museum visit
- 6:45 pm  
                  **Potlatch Buffet Dinner**

## Monday, October 17

- 7:30 – 8:30 am  
                  *Breakfast (Stevenson “A”)*
- 8:45 am  
                  Airport bus loading *(outside conference center entrance)*
- 9:00 am  
                  Airport bus departs