*70th Annual*

Montagna Symposium on the Biology of Skin

**Visualizing the Future of Skin Biology and Dermatology**

Oct. 19-23, 2023

**Program Chair and Symposium Co-Director:**

Dennis Roop, Ph.D. *(Colorado)*

**Symposium Co-Director:**

Sancy Leachman, M.D., Ph.D. *(OHSU)*

**Symposium Co-organizers:**

Stuart Yuspa, M.D. *(NIH)*

Thomas Krieg, M.D., Ph.D. *(University Hospital of Cologne)*

Sabine Werner, Ph.D. *(ETH Zurich)*

Salishan Coastal Lodge

7760 North Highway 101

Gleneden Beach, OR, USA 97388

**Conference Program**

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| **Thursday, Oct 19** |
| 4:00 p.m. - 7:00 p.m. | Arrival and Check-in |
| 6:00 p.m. – 7:00 p.m. | Welcome and introductory comments**Sancy Leachman, M.D., Ph.D.** (OHSU)and **Dennis Roop, Ph.D.** (Colorado) Dinner Buffet (Council House) |
| 7:15 p.m. – 8:15 p.m. | **Keynote (in Long House): Joe Gray,** **Ph.D.** (OHSU)*“Rethinking precision cancer treatment for advanced cancers - a systems biomedicine approach”* |

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| **Friday, Oct 20** |
| 7:00 a.m. – 8:00 a.m.  | Breakfast |
| 8:00 a.m. – 8:15 a.m. | Introductory Remarks **Dennis Roop, Ph.D.** (Colorado) **and Sancy Leachman, M.D. Ph.D.** (OHSU) |
| 8:15 a.m. – 8:25 a.m. | **Session 1: Advances in skin cancer research and therapy**Session Moderator: **Stuart Yuspa, M.D. (NIH)** |
| 8:25 a.m. – 8:55 a.m. | **Allan Balmain, Ph.D. (UCSF)***“Squamous cancer, pre-cancer, insights on tumor promotion.”* |
| 8:55 a.m. – 9:05 a.m. | Discussion |
| 9:05 a.m. – 9:35 a.m. | **Andrzej Dlugosz, M.D. (Michigan)** *“Cell fate reprogramming to drive Merkel cell carcinoma development in mice”*  |
| 9:35 a.m. – 9:45 a.m. | Discussion |
| 9:45 a.m. – 10:15 a.m. | **Sergey Nikolaev, M.D. (Gustave Roussey, Paris)***“Basal Cell Carcinoma (From functional genomics to the mechanisms of treatment resistance)”*  |
| 10:15 a.m. – 10:25 a.m. | Discussion |
| 10:25 a.m. – 10:35 a.m. | Break  |
| 10:35 a.m. – 11:05 a.m. | **Brigitte Widemann, M.D. (NIH)** *“Current understanding of pathogenesis and treatment of Neurofibromatosis 1 related peripheral nerve sheath tumors”* |
| 11:05 a.m. – 11:15 a.m. | Discussion |
| 11:15 a.m. – 11:45 a.m. | **Stephanie Goff, M.D. (NIH)** *“Cell-based immunotherapy for melanoma”* |
| 11:45 a.m. – 11:55 a.m.  | Discussion |
| 11:55 a.m. – 12:10 p.m. | **Paolo Vignali, Ph.D. (University of Pittsburgh)** *“Hypoxia within melanoma tumors promotes an unappreciated suppressor function in exhausted T cells and limits antitumor immunity”* |
| 12:10 p.m. – 12:25 p.m. | **Stephanie Holtorf (The Hormel Institute - University of Minnesota)***“Identification of bone marrow-derived epithelial cells that may contribute to developing chronic cutaneous neoplasms in mice.”* |
| 12:25 p.m. – 1:15 p.m. | LunchPfizer Product Theater |
| 1:15 p.m. – 1:20 p.m. | **Session 2: *Tissue Repair and Fibrosis*** Session Moderator: **Thomas Krieg, M.D. (Cologne)** |
| 1:20 p.m. – 1:50 p.m. | **Thomas Krieg, M.D. (Cologne)** *“Regulation of Fibroblast Activities - Implications for Tissue Repair and Fibrosis”*  |
| 1:50 p.m. – 2:00 p.m. | Discussion |
| 2:00 p.m. – 2:30 p.m. | **Maksim Plikus, Ph.D. (UC Irvine)***“Cell – Cell Communication in Skin Wound Healing”* |
| 2:30 p.m. – 2:40 p.m. | Discussion |
| 2:40 p.m. – 3:10 p.m. | **Michael Longaker, M.D. (Stanford)** *“Fibroblasts subsets, and the identification of specific signatures and their involvement in scar formation"* |
| 3:10 p.m. – 3:20 p.m.  | Discussion |
| 3:20 p.m. – 3:30 p.m. | Break |
| 3:30 p.m. – 4:00 p.m. | **Sabine Eming, M.D. (Cologne)** *“Macrophage subsets and the role of reparative macrophages in remodeling the extracellular matrix"*  |
| 4:00 p.m. – 4:10 p.m. | Discussion |
| 4:10 p.m. – 4:40 p.m.  | **Alexander Marneros, M.D., Ph.D. (Harvard)***“Aplasia cutis pathogenesis reveals mechanisms regulating skin formation and tissue fibrosis”* |
| 4:40 p.m. – 4.50 p.m.  | Discussion |
| 4:50 p.m. – 5:20 p.m. | **Peter Marinkovich, M.D. (Stanford)***“Bench to bedside development of the first FDA approved gene therapy for dystrophic epidermolysis bullosa”* |
| 5:20 p.m. – 5:30 p.m. | Discussion |
| 5:30 p.m. – 5:45 p.m. | **Suneeti Madhavan (Case Western)***“WNT signaling activation causes early decline of de novo lipogenesis leading to lipid depleted dermal adipocytes”* |
| 5:45 p.m. – 6:00 p.m. | **Ian Odell, M.D., Ph.D. (Yale)***“IL-6 Trans-Signaling in a Humanized Mouse Model of Scleroderma”* |
| 6:00 p.m. – 7:00 p.m. | **Dinner (Council House)****Awards Presentation*** Society of Investigative Dermatology Eugene M. Farber Travel Awards for Young Investigators
* Japanese Society for Investigative Dermatology Travel Award
* Taiwanese Society for Investigative Dermatology (TSID) Award
* European Society for Dermatological Research: ESDR Travel Award
* Director’s Award for Diversity
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| 7:00 p.m. – 9:00 p.m. | **Poster Reception**(*Dessert and wine tasting in Long House)*  |

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| **Saturday, Oct 21** |
| 7:00 a.m. – 8:00 a.m. | Breakfast |
| 8:00 a.m. – 8:05 a.m. | Announcements |
| 8:05 a.m. – 8:10 a.m. | **Session 3: *Keratinocyte - Immune Cell Cross-talk in Skin Inflammation***Session Moderator: **Sabine Werner, Ph.D (ETH, Zurich)**  |
| 8:10 a.m. – 8:40 a.m. | **Sara Brown, M.D. (Edinburgh)** *“Keratinocytes are immunologically-active cells in their own right: evidence from genetic studies and primary cell culture”* |
| 8:40 a.m. – 8:50 a.m. | Discussion |
| 8:50 a.m. – 9:20 a.m. | **Michel Gilliet, M.D. (Lausanne)** ***“****Reciprocal immune-keratinocyte interactions in the pathogenesis of psoriasis****”***  |
| 9:20 a.m. – 9:30 a.m. | Discussion |
| 9:30 a.m. – 10:00 a.m. | **Shruti Naik, Ph.D. (NYU)** **“***Targeting immune-epithelial circuits in inflammatory skin disease"* |
| 10:00 a.m. – 10:10 a.m. | Discussion |
| 10:10 a.m. – 10:20 a.m. | Break |
| 10:20 a.m. – 10:50 a.m. | **Sabine Werner, Ph.D. (ETH, Zurich)** *“Keratinocytes: key regulators of stromal and immune cell functions in tissue repair and cancer”* |
| 10:50 a.m. – 11:00 a.m. | Discussion |
| 11:00 a.m. – 11:15 a.m. | **Benjamin Klein, M.D. (Michigan)*****“****Mitochondrial Z-DNA and ZBP1 Drive Autoimmune Photosensitivity****”*** |
| 11:15 a.m. – 11:30 a.m. | **Jared Simmons (UC San Diego)***“Dermal fibroblasts have a critical role in skin immunity through responses to keratinocyte interleukin-1”* |
| 11:30 a.m. – 11:45 a.m.  | **Ricardo Cibotti, Ph.D. (NIH)***“NIH/NIAMS Funding Opportunities”* |
| 11:45 a.m. | Lunch (on your own)  |
| 12:30 p.m. – 4:00 p.m. | FREE TIME / GOLF / CASCADE HIKE* **Group Hike: Meet in the lobby at 12:30pm**
* Golf and Activities: salishan.com/adventure (on your own)
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| 4:30 p.m. – 6:00 p.m.  | **Round Table Discussions***All attendees are welcome to participate. Please sign up for your* ***top two choices (QR code on “important links” document in folders),*** *we will organize to keep the groups appropriately small, and there will be a chance to move to a new group halfway through.** **Joe Gray, Ph.D. (OHSU)**: “Rethinking precision cancer treatment for advanced cancers - a systems biomedicine approach”
* **Sabine Eming, M.D. (Cologne):** “Learning from organisms and tissues that perfectly regenerate to improve healing.”
* **Christoph T. Ellebrecht, M.D. (UPenn**): “From Zero to Lab: The First 18 Months as a PI - Challenges, Solutions, and Insights”
* **Shruti Naik, Ph.D. (NYU)**: "Career Advancement. Discuss goal driven strategies that are essential for career advancement at all stages including self-advocacy, mentoring-up, networking, identifying opportunities and decision making"
* **Erwin Tschachler M.D.** (JID) and **Annalisa VanHook, Ph.D.** (Science Signaling): "Current Topics in Scientific Publishing: Navigating Peer Review and Publication”
* **Ricardo Cibotti, Ph.D.** and **Peter Koch, Ph.D.** (NIH/NIAMS): "How to maximize your chances to get the first R01/21 award"
* **Wendy Weinberg, Ph.D.** (FDA): “FDA procedures for application and review of biological therapeutics”
* **Dennis Roop, Ph.D.** (Colorado): "Academia and Industry: Pros and Cons of an Academic Postdoctoral Fellowship"
* **Sancy Leachman, M.D., Ph.D.** (OHSU): “Weighing ‘the good’ of moving diagnostic tests or treatments into clinical care vs the need for more research data”
 |
| 6:00 p.m. – 7:30 p.m. | Dinner**Molly Kulesz-Martin, Dennis Roop, Sancy Leachman***“History and Future of Montagna”* |
| 7:30 p.m. - 10:00 p.m. | **Molly Kulesz-Martin, Ph.D., Director Emeritus, Retirement Celebration**  |

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| **Sunday, Oct 22** |
| 7:00 a.m. – 8:00 a.m. | Breakfast |
| 8:00 a.m. – 8:05 a.m. | Announcements |
| 8:05 a.m. – 8:10 a.m. | **Session 4: *Emerging Diagnostic and Therapeutic Approaches***Session Moderator: **Dennis Roop, Ph.D. (Colorado)** |
| 8:10 a.m. – 8:40 a.m. | **Tony Oro, M.D., Ph.D. (Stanford)***“A Spatiotemporal and Machine-Learning Platform to Accelerate hPSC-derived Tissue Replacement”*  |
| 8:40 a.m. – 8:50 a.m. | Discussion |
| 8:50 a.m. – 9:20 a.m. | **Ganna (“Anya”) Bilousova, Ph.D. (Colorado)** *“An Autologous iPSC-based Therapy for Recessive Dystrophic Epidermolysis Bullosa Delivered via Cell Suspension”* |
| 9:20 a.m. – 9:30 a.m. | Discussion |
| 9:30 a.m. – 10:00 a.m. | **Xiao-Jing Wang, M.D., Ph.D. (UC Davis)** *“Therapeutic effects of Smad7-based protein on dermatitis through upregulation of IL22RA2”* |
| 10:00 a.m. – 10:10 a.m. | Discussion |
| 10:10 a.m. – 10:20 a.m. | Break |
| 10:20 a.m. - 10:35 a.m. | **Martin Alphonse, Ph.D. (Johns Hopkins)***“Inflammasome-mediated host defense against Staphylococcus aureus skin infections is mediated by neutrophil-intrinsic NLRP12 and caspase-8 signaling”* |
| 10:35 a.m. - 10:50 a.m. | **Jenna Bowman (OHSU)***“Patient-Specific Targeting of the T-Cell Receptor Variable Region as a Therapeutic Strategy in Clonal T-Cell Diseases”* |
| 10:50 a.m. – 11:20 a.m. | **Luis Garza, M.D., Ph.D. (Johns Hopkins)***“In human use of fibroblasts to modify skin identity"* |
| 11:20 a.m. - 11:30 a.m.  | Discussion |
| 11:30 a.m. - 12:00 p.m.  | **Christoph Ellebrecht, M.D. (UPenn)***“Leveraging asymmetric cell division in CAR/CAAR T cells for optimized precision immunotherapy of pemphigus and other autoimmune conditions”*  |
| 12:00 p.m. – 12:10pm.  | Discussion |
| 12:10 p.m. - 1:00 p.m. | Lunch |
| 1:00 p.m. – 1:30 p.m. | **David Hyams, M.D., F.A.C.S.** *“Integrating gene expression profiling to identify patient risk in invasive melanoma and high-risk squamous cell carcinoma”* |
| 1:30 p.m. – 1:40 p.m.  | Discussion |
| 1:40 p.m. – 2:10 p.m. | **David Huang, M.D., Ph.D. (OHSU)***“Optical coherence tomography and angiography: technology development and potential applications in the skin”* |
| 2:10 p.m. – 2:20 p.m. | Discussion  |
| 2:20 p.m. - 2:35 p.m. | **Favour Akinjiyan (Washington University in St. Louis)***“Exploring DDR2’s role in CAF extracellular matrix production and tumor progression”* |
| 2:35 p.m. - 2:50 p.m. | **Meagan Branch (Mount Sinai) “***The epigenetic control of re-epithelialization during adult skin wound healing”* |
| 2:50 p.m. – 3:50 p.m.  | **Panel Discussion***Visualizing the Future of Dermatology and Skin Biology: Industry Perspectives* |
| 4:00 p.m. – 6:15 p.m. | **Beach Campfire and Reception** *(Option to take the shuttle cars (5 minutes) to the beach or walk (10 minutes) Wine and appetizers provided (indoor venue)*  |
| 6:30 p.m. - 8:00 p.m. | **Traditional Salmon Dinner at Salishan** **Alec Furst, MD Candidate** *Land Acknowledgment and Short Talk: “The importance of salmon to the Siletz tribe and our communities”* |

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| **Monday Oct 23** |
| 7:00 a.m. – 8:00 a.m. | Breakfast |
| 8:15 a.m. - 8:30 a.m. | **Bus departs for PDX Airport (boarding at 8:15 am for an on-time departure)** |
| ~11:30 a.m. | **Bus arrives at PDX Airport** |

*A special thank you to* ***National Institutes of Health*** *(R13 AR009431-56), travel award affiliate organizations (****SID Farber****,* ***ESDR****,* ***JSID****,* ***KSID****,* ***TSID****) and our conference sponsors* ***Castle Biosciences*** *(Champion),* ***LEO Foundation*** *(Champion),* ***David M.C. Ju Foundation*** *(Benefactor),* ***Janssen*** *(Benefactor),* ***Novartis*** *(Benefactor),* ***CTA Pathology*** *(Associate),* ***EltaMD*** *(Associate),* ***Knight Cancer Institute*** *(Associate),* ***Lumo Imaging*** *(Associate),* ***Orlucent*** *(Associate),* ***Science Signaling (AAAS)*** *(Associate),* ***Sklip Inc.*** *(Associate).*