

The 59th annual

Montagna Symposium on the Biology of Skin

presents

Small Molecules:

Skin as the First Line of Defense

October 7th – 11th, 2010

Salishan Resort, Gleneden Beach, Oregon

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Nerve growth factor regulation by Th17/IL23 in murine psoriasis-like model and human uninvolved psoriatic skin

Paulo R. Bargo, Melissa Chu, Inseok Seo, Guojin Zhang, Nikiforos Kollias

Johnson & Johnson Consumer Companies

In vivo assessment of the evolution of UV-induced immune responses in human skin

Elhabib Benlhabib¹, M. K. Hordinsky¹, A. C. Junqueira Bertin¹, I. G. Panoutsopoulou^{1,3}, G. Wendelschafer-Crabb³, W. R. Kennedy³, G. L. Wilcox^{1,2}

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Long-term exposure to sun (UVB) induces skin cancer, premature skin aging and cutaneous immunosuppression

Jamie J. Bernard, Richard L. Gallo

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Cox-2 activity is required for enhanced antimicrobial peptide expression and bacteriocidal activity in human keratinocytes

Ferda Cevikbas¹, Xidao Wang², Akihiko Ikoma¹, Victoria Fong¹, Stephan Seeliger³, Stacey R. Dillon⁴, Michael Fischer⁵, Peter Reeh⁵, Attila Antal⁶, Bernhard Homey⁶, Allan Basbaum², Martin Steinhoff¹

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Interleukin-31 induces scratching in mice via IL-31RA/OSMR β activation in untreated as well as oxazolone-sensitized skin

Melanie C. Dispenza, Amanda M. Nelson, Kathryn L. Gilliland, Zhaoyuan Cong, Amy L. Longanecker, LeRoy J. Tanner, Diane M. Thiboutot

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Immune modulation by isotretinoin *in vivo*

José R. Fernández, Xuyan Feng, Eduardo Pérez, Karl Rouzard, Arnold González, Seung-Yub Lee, Michael Voronkov, Gopal Sarngadharan, Joel S. Gordon, Maxwell Stock

Signum Biosciences, Inc., Monmouth Junction, NJ

Isoprenylcysteine (IPC) analogs, G-protein CAAX tail mimics, are a new class of topical anti-inflammatories with a low potential for adverse effects

Akihiko Ikoma¹, Ferda Cevikbas^{1,2}, Victoria Fong¹, Eric Camerer³, Shaun R. Coughlin³, Martin Steinhoff^{1,2}

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Conditional over-expression of protease-activated receptor-2 in murine keratinocytes results in pruritic dermatitis with increased nerve growth factor release *in vivo*

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Transcription factor Ctip2/ Bcl11b regulates skin lipid metabolism and plays a crucial role in formation of epidermal permeability barrier (EPB)

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Gene expression profiles at the site of disease reveal a role for S100A8 /A9 in promoting melanocyte loss in vitiligo

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NGAL expression is induced by *P. acnes* and isotretinoin in sebocytes and increased on the skin surface of acne patients and patients receiving isotretinoin

Heather McGee, Richard Flavell, Valerie Horsley

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Role of Interleukin-22 in acute skin wounding

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A C-xylopyranoside derivative stimulates dermatan sulfate synthesis and promotes keratinocyte migration

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On the TRAIL to isotretinoin's mechanism of action in acne treatment

Stephen M. Ostrowski^{1,2}, Abdelmadjid Belkadi¹, Candace M. Matheny², Doina Diaconu², Nicole L. Ward^{1,2,3}

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Nerve-derived substance P (SP) and calcitonin gene related peptide (CGRP) sustain CD11c⁺ and CD4⁺ cutaneous cell infiltration and contribute to acanthosis in the KC-Tie2 mouse model of psoriasis

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Peptide protection of the pinna: how small molecules rescue ear phenotype in a mouse model of autoimmunity

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Suction skin blister confocal analysis of nerve fiber and Langerhans cell expression in psoriasis and normal human skin

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Melanocytic responses to piperine, a small molecule from nature

Ronald Wolf^{1,5}, Francesca Mascia¹, Alif Dharamsi¹, O.M. Zack Howard², Christophe Cataisson¹, Val Bliskovski¹, Jason Winston¹, Lionel Feigenbaum⁴, Ulrike Lichti¹, Thomas Ruzicka⁵, Triantafyllos Chavakis³, Stuart H. Yuspa¹

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Small S100 molecules with cutaneous antimicrobial activity prime skin for inflammation: A mouse model for psoriasis susceptibility