

Contact Dermatitis 2004

Blending Science with Best Practice



**Experimental Contact Dermatitis Research Group (ECDRG)
October 28-29, 2004**

**American Contact Dermatitis Society (ACDS)
October 29-30, 2004**



Lister Hill Auditorium - National Institutes of Health

Bethesda Hyatt Regency

GOAL

*To foster exchange and interaction among participants
from academia, clinical practice, government and industry*

EXPERIMENTAL CONTACT DERMATITIS RESEARCH GROUP / AMERICAN CONTACT DERMATITIS SOCIETY

STEERING COMMITTEE

David Cohen (New York University School of Medicine – New York, NY)

Cindy Froehlich (American Contact Dermatitis Society – Chicago, IL)

Anthony Gaspari (University of Maryland – Baltimore, MD)

G. Frank Gerberick (The Procter and Gamble Company – Cincinnati, OH)

Linn Holness (University of Toronto, Toronto, Canada)

Boris Lushniak (Food and Drug Administration – Rockville, MD)

Dino Mattorano (National Institute for Occupational Safety and Health – Cincinnati, OH)

Contact Dermatitis 2004 wishes to acknowledge support from the following:

National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)

National Institute for Occupational Safety and Health (NIOSH)

The National Occupational Research Agenda, Allergic and Irritant Dermatitis Team (NORA AID)

Contact Dermatitis 2004 wishes to acknowledge the following sponsors:

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Chemotechnique Diagnostics/Dormer Laboratories, Inc.

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Wednesday, October 27, 2004

6:30 PM *Informal social at Hyatt Regency Bethesda Hotel in Concourse Lounge.*

Thursday, October 28, 2004

ECDRG MEETING

7:30 AM *Registration and Continental Breakfast
Lister Hill Auditorium, NIH*

8:30 AM **Greeting, Overview and Welcome to ECDRG**

- **National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS)**
- **National Institute for Occupational Safety and Health (NIOSH)**
- **The National Occupational Research Agenda, Allergic and Irritant Dermatitis Team (NORA AID)**

Skin Allergy: Mechanisms and Models

Moderator: Ian Kimber, PhD

8:45 AM **Cytokine profiling for chemical allergens : individual animal variation.**
RJ Dearman, CJ Betts, HT Caddick, A Banyard and I Kimber;
Syngenta CTL, Macclesfield, UK.

9:00 AM **Discovery of a new negative regulator of T-cell activation using the contact hypersensitivity model.** PD Cruz; The University of Texas Southwestern Medical Center, Dallas, TX.

9:15 AM **Langerhans cell migration in mice and men.**
I Kimber, M Cumberbatch, RJ Dearman and CE Griffiths;
Syngenta CTL, Macclesfield, UK.

9:30 AM **Modulation of UV- immunosuppression by the TLR 7 agonist, imiquimod.**
AA Gaspari; University of Maryland School of Medicine, Baltimore, MD.

9:45 AM **Potency of Citral in the local lymph node assay.**
J Lalko; Research Institute for Fragrance Materials, Inc., Woodcliff, NJ.

10:00 – 10:30 AM *Break*

Thursday, October 28, 2004

Skin and Respiratory Allergy

Moderator: G Frank Gerberick, PhD

10:30 AM **Chemical contact and respiratory allergens provoke divergent cutaneous cytokine production patterns.** RJ Dearman, M Cumberbatch and I Kimber; Syngenta CTL, Macclesfield, UK.

10:45AM **The Local Lymph Node Assay: Responses to chemical respiratory allergens.** CJ Betts, RJ Dearman, RW Crevel, DA Basketter and I Kimber; Syngenta CTL, Macclesfield, UK.

11:00 AM **INVITED LECTURE:** (Sponsored by Syngenta)
“Update on Toll-Like Receptor Biology”
Stefanie Vogel, PhD
Professor, Departments of Microbiology, Immunology, and Medicine,
University of Maryland Baltimore Campus
Baltimore, Maryland

12:00 – 1:00 PM *Lunch (on your own)*

1:00 PM **INVITED LECTURE:**
“Regulatory Considerations for Evaluation of Drugs for Allergy”
Kenneth Hastings, MPH, DrPH, DABT
Team Leader, Pharmacology and Toxicology
Office of New Drugs
U.S. Food and Drug Administration
Rockville, Maryland

Skin Sensitization Alternatives

Moderator: David Basketter, MD

1:45 PM **EU regulations and in vitro alternatives.** D Basketter; SEAC Unilver, Sharnbrook, UK.

2:00 PM **Analysis of the in vitro activation of dendritic-like cells or cell lines exposed to PPD and PPD derivatives.** P Aeby; Cosmital SA, Marly, Switzerland.

Thursday, October 28, 2004

- 2:15 PM **Use of historical local lymph node data in the development of alternative test methods for skin sensitization.** C Ryan, P Kern, D Basketter, G Patlewicz, R Dearman, I Kimber, GF Gerberick; The Procter & Gamble Company, Cincinnati, OH.
- 2:30 PM **Prediction of preservative sensitization potential using THP-1 human cell surfacemarker CD86 and/or CD54 expression in vitro.** H Sakaguchi; KOA Corporation, Tochigi, Japan.
- 2:45 – 3:15 PM *Break*
- 3:15 PM **Development of peptide reactivity assay for screening contact allergens.** GF Gerberick, J Vassallo, J Chaney, R Bailey, S Morrall, JP Lepoittevin; The Procter & Gamble Company, Cincinnati, OH.
- 3:30 PM **Biomarkers for the prediction of skin sensitization: real-time PCR Analysis of target genes in dendritic cells treated with contact allergens.** L Gildea, C Ryan, B Hulette, R Dearman, I Kimber, GF Gerberick; The Procter & Gamble Company, Cincinnati, OH.
- 5:00 PM **ECDRG Social and Dinner Cruise**
(Sponsored by The Procter & Gamble Company).
- Bus pickup at Hyatt Regency Hotel in Bethesda.**
One Bethesda Metro Center
Bethesda, MD 20814
(301) 657-1234
- Odyssey (Address of Dinner Cruise)
600 Water Street, SW
Washington, DC 20024
(202) 488-6047

Friday, October 29, 2004

ECDRG MEETING

7:30 AM *Registration and Continental Breakfast*
Lister Hill Auditorium, NIH

Skin Barrier, Irritation, and Occupational Dermatitis

Moderator: Boris Lushniak, MD

8:30 AM **Disposition of DEET after topical application to human skin in vitro.**
G Kastings; University of Cincinnati, College of Pharmacy, Cincinnati, OH.

8:45 AM **Gene expression studies with skin irritants.**
J McDougal; Wright State University, Department of Pharmacology and Toxicology, Dayton, OH.

9:00 AM **Skin pH: practical implications regarding chemical allergens and toxics.**
MF Boeniger; Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Cincinnati, OH.

9:15 AM **Changes in skin barrier function after cleanser and soft-water rinses.**
J Dehaven; CDC/NIOSH, Morgantown, WV.

9:30 AM **Hard water and cleanser-induced changes in skin barrier function.**
J Keswani; CDC/NIOSH, Morgantown, WV.

9:45 AM **Contact Dermatitis: case-control study among auto assembly workers.**
A Sussell; CDC/NIOSH, Cincinnati, OH.

10:00 – 10:30 AM *Break*

Skin Sensitization

Moderator: Rebecca Dearman, PhD

10:30 AM **Is dinitrothiocyanobenzene a human sensitizer? Comparisons with dinitrochlorobenzene.** I Kimber, RJ Dearman, M Cumberbatch, C Pickard, and PS Friedmann; Syngenta CTL, Macclesfield, UK.

10:45 AM **Quantification of cytotoxicity in dendritic cells following treatment with contact allergens: A benchmark study for a high content screen.** L Gildea, C Ryan, B Hulette, L Burmeister, P Brode, and GF Gerberick; The Procter & Gamble Company, Cincinnati, OH.

Friday, October 29, 2004

11:00 AM **ECDRG/ACDS KEYNOTE LECTURE:**
 “Animal Models of Autoimmunity and Peripheral Tolerance”
Steve Katz, MD, PhD
Director
National Institute of Arthritis and Musculoskeletal and Skin Diseases
National Institutes of Health

12:00 – 1:00 PM *Lunch (on your own)*

ACDS MEETING

1:00 PM **Greeting, Overview and Welcome to ACDS**
Anthony Gaspari, MD
University of Maryland School of Medicine

Young Investigator Award Presentations

1:15 – 3:45 PM (Moderator: Anthony Gaspari, MD)

1:15 PM **Determination of in vivo threshold sensitizing dose and allergen-specific T-cells in subjects contact-sensitized to squaric acid dibutyl.** M Camouse;
University Hospitals of Cleveland, Case Western Reserve University,
Cleveland, OH.

1:30 PM **Laser-assisted penetration of allergens through the stratum corneum to facilitate patch testing for allergic contact dermatitis.** M. Veremis-Ley;
University Hospitals of Cleveland, Case Western Reserve University,
Cleveland, OH.

1:45 PM **Review and update of the diagnosis and treatment of allergic contact dermatitis secondary to formaldehyde resins in textiles.** R Carlson;
University Hospitals of Cleveland, Case Western Reserve University,
Cleveland, OH.

2:00 PM **Adenosine triphosphate (ATP) production assay as a measurement of T-Cell function - potential uses in dermatology.** G Honari; The Cleveland
Clinic Foundation, Cleveland, OH.

2:15 PM **Allergic contact dermatitis to carboxymethyl cellulose.** D Rausch;
University of Maryland Medical System, Baltimore, MD.

Friday, October 29, 2004

- 2:30 PM **Drug-induced interstitial granulomatous dermatitis.** V Harvey; University of Maryland Medical System, Baltimore, MD.
- 2:45 – 3:15 PM *Break*
- 3:15 PM **A computational model for the transport of allergens in human skin: initial concepts.** K Kretsos; University of Cincinnati, College of Pharmacy, Cincinnati, OH.
- 3:30 PM **Effect of topical Vitamin D analog on contact sensitivity: an in-vivo study using optical coherence tomography.** K Hanneman; University Hospitals of Cleveland, Case Western Reserve University, Cleveland, OH.
- 3:45 PM **The painful, purple digit: an alarming complication of candida antigen treatment for recalcitrant warts.** M Perman, JB Sterling, AA Gaspari; University of Maryland School of Medicine, Baltimore, MD.

ACDS Presentations

(Moderator: Anthony Gaspari, MD)

- 4:00 PM **Contact dermatitis to swimming pool bromine.** JS Taylor; The Cleveland Clinic Foundation, Cleveland, OH.
- 4:15 PM **Cement and epoxy dermatitis in construction workers.** L Welch; Center to Protect Workers Rights, Silver Spring, MD.
- 4:30 PM **Elicitation thresholds for nickel - A review.** LA Fischer; Gentofte Hospital, University of Copenhagen, Department of Dermatology, Gentofte, Denmark.
- 4:45 PM **Dose/unit area and time - key factors influencing the elicitation capacity of MCI/MI.** AL Sorensen; Gentofte Hospital, University of Copenhagen, Department of Dermatology, Gentofte, Denmark.
- 6:30 PM **ACDS Social – Cocktail hour and buffet dinner at the Bethesda Hyatt Regency Hotel.** Location of event will be announced during the meeting. The cocktail hour will include table top exhibits for the sponsors.

(Sponsored by Chemotechnique Diagnostics/Dormer, Connetics, Fujisawa Health Care, Inc., Mary Kay, Inc., and Research Institute for Fragrance Materials, Inc.)

Saturday, October 30, 2004

ACDS MEETING

ACDS Presentations

(Moderator: Anthony Gaspari, MD)

- 7:30 AM *Continental Breakfast*
Haverford Suite, *Hyatt Regency Bethesda*
- 8:00 AM **Update on antigens for natural rubber latex allergy testing.** J Slater; U.S. Food and Drug Administration, Rockville, MD.
- 9:00 AM **Allergen alternatives.** JS Taylor; The Cleveland Clinic Foundation, Cleveland, OH.
- 10:00 – 10:30 *Break*
- 10:30 AM **Effects of stress on the skin immune system.** FA Tausk; The Johns Hopkins University, Baltimore, MD.
- 11:00 AM **Update on bioterrorism.** BD Lushniak; U.S. Food and Drug Administration, Rockville, MD.
- 11:45 PM **Development of the burden of skin disease project.** K Cooper; Case Western Reserve University, Cleveland, OH.
- 12:00 PM **Advocating for eczema and dermatitis: the NEASE Experience.** I Crosby; NEASE, San Rafael, CA.
- 12:30 PM Closing Comments

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