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Skinergy

Department of Dermatology

SUMMER 2008

Message from the Chairman

As the summer comes to a close and we look forward to the fall season in Ohio, the turning of the seasons is reflected in the turning of the Department we experience each year as a new class of first year residents arrive and we say our good byes to the senior residents who are embarking on new careers or additional training. Our exceptional residents continue, year after year, to represent the best of our Department and Program as they place highly in competitive training programs and fellowships, start new training programs of their own and create innovative new practices in dermatology. The current departing senior class is no exception to this tradition. We will miss them and wish them the best in their outstanding continued careers.

One of our graduating seniors will not have to travel far to begin his career. Dr. Kurt Lu has decided to join our Faculty and began July 1st, 2008. Dr. Lu will participate in clinical patient care, translational research and basic research in cutaneous immunology and wound healing. Kurt has received prestigious awards from the Dermatology Foundation (Career Development Award) and the NIH (K12 award) to begin his academic career in Dermatology.

We are also pleased to welcome back to Cleveland Dr. Jorge Garcia-Zuazaga. Dr. Garcia-Zuazaga was a 2007 graduate from our program and has also decided to remain in academic medicine. Dr. Garcia-Zuazaga completed a Harvard-hospital fellowship in Mohs surgery and will direct the University Hospitals Westlake Skin Cancer and Mohs Surgery Program. Dr. Garcia-Zuazaga has also received a prestigious Dermatology Foundation Patient-directed Investigational Grant.

We also welcome to our Department Dr. Kenneth Lloyd, a well known dermatologist in the Youngstown area who is bringing his extensive clinical expertise to our new UH Twinsburg office location, as well as Dr. Michael Mancuso who has brought his expertise and Solon practice into UH under UHMP. They join Drs. Jay Klemme (Strongsville location) and Kyle Wagamon (Chardon location) in our newly created Community Division of the Department. Another key addition to our faculty is Dr. Minh Lam. Dr. Lam brings with him a wealth of experience and expertise in confocal microscopy and imaging. Dr. Lam is working closely with Dr. Baron to further refine our knowledge regarding photodynamic therapy for skin diseases.

In addition to the new faces, the Department continues to grow on both the clinical and research fronts. Several new research and clinical trials are ongoing in the Department and are explained in detail inside this issue of Skinergy. Several ongoing and new community initiatives such as our Annual Twinsday research program and the planning for our First Sponsored National Psoriasis Foundation Walk for Awareness are also outlined inside.

New Programs, fresh faces and new ideas all contribute to the ongoing vitality of the Department of Dermatology. Please take a moment to catch up with our Department through this issue of Skinergy. Our next cycle of outstanding patient care, research and education is getting underway. Watch us as we continue; To Heal. To Teach. To Discover.

Best regards,

Kevin D. Cooper

Kevin D. Cooper, MD
Professor and Chair, Department of Dermatology



Kevin D. Cooper, MD
*Professor and Chair
Department of Dermatology*

Department Announcements

Please welcome the newest Dermatology faculty and Department members

Jorge Garcia-Zuazaga, M.D., MS, FAAD



Dr. Jorge Garcia-Zuazaga will be an Assistant Professor of Dermatology, Director of University Hospitals Westlake Skin Cancer & Mohs Surgery Program, and Director of Laser & Aesthetic Dermatology.

Dr. Garcia-Zuazaga comes to us following extensive training and completion of a fellowship in Mohs Micrographic Surgery, Cutaneous Oncology, and Cosmetic and Laser Dermatology at Harvard Medical School under Dr. Olbricht. His dermatology residency was completed here at University Hospitals Case Medical Center. Dr. Garcia-Zuazaga completed an internship at the National Naval Medical Center, followed by serving as Flight Surgeon and Senior Medical Officer for the Marine Corp Air Station in Beaufort, South Carolina. Dr. Garcia-Zuazaga earned his Doctor of Medicine from The Pennsylvania State University at The Milton S. Hershey Medical Center and also holds Bachelor and Master Degrees in Biomedical Engineering. His special interests include Mohs Micrographic Surgery and Cutaneous Oncology, Dermatologic Surgery, Cosmetic and Laser Dermatology.

Minh Lam, Ph.D.



Dr. Minh Lam joins our faculty as an Instructor in the Department of Dermatology at Case Western Reserve University. Dr. Lam received his undergraduate degree from Oberlin College and graduate degree from Case

Western Reserve University. He then completed his post-doctoral fellowship at Case in Dr. Nancy Oleinick's laboratory studying

the fundamental mechanism (s) of (Pc 4) PhotoDynamic Therapy (PDT)-induced apoptosis, with extensive use of confocal microscopy specializing in measurements made on living cells. Currently, one of Dr. Lam's roles in the department is to assist Dr. Elma Baron's NIAMS funded Psoriasis Center of Research Translation project on Pc 4-PDT and a proteomics project to develop new methods of measuring sun protection funded by Estee Lauder.

Kenneth M. Lloyd, M.D.



Dr. Kenneth M. Lloyd joined the Department of Dermatology on July 21st, 2008. He has been in private practice for many years and is coming to us from the Lloyd Dermatology Center in Youngstown. He will be bringing his extensive clinical expertise to patients one day a week in our new UH Twinsburg location. We welcome Dr. Ken Lloyd into our Department and our new growing Community Dermatology Division.

Kurt Lu, M.D.



Dr. Kurt Lu joins the department as an

Assistant Professor in the Department of Dermatology. Dr. Lu joined the Department of Dermatology on July 1, 2008. He is a wonderful addition to our superb staff at Chagrin Highlands Health Center. Dr. Lu received a Bachelors of Science degree from the University of Rochester in Immunology and Microbiology with distinction in research, and he completed medical school at the University of Rochester School of Medicine. He completed his dermatology residency at Case Western Reserve University School of Medicine/University Hospitals Case Medical Center. In addition Dr. Lu completed a fellowship at the CWRU SOM and UH CMC training program in molecular and investigative dermatology, and was a post-doctoral fellow on our T32 NIH Training Grant. Dr. Lu completed an internship at Columbia University College of Physicians and Surgeons, St. Luke's-Roosevelt Medical Center in New York City, New York. Dr. Lu's specialty is general dermatology, and his research interests are in immunology of the skin, skin inflammation, wound healing, and the effects of ultraviolet radiation on the skin.

Michael Mancuso, M.D.



Dr. Michael Mancuso joined University Hospital and the Department of Dermatology upon bringing his well established dermatology practice in Solon under UHMP. He has been a long-standing member of the clinical part time faculty, and will continue in this capacity. As a member of our new and growing Community Division, we welcome him to the UH Dermatology Team and Service Line.

Murdough Family Center for Psoriasis

What is the Murdough Family Center for Psoriasis (MFCP)?

The MFCP is a multifaceted center developed in 2006 with a generous \$5 million dollars donation given by the

Murdough Foundation. The MFCP is dedicated to improving the lives of patients with psoriasis through research, treatment and education.

The Multidisciplinary Clinic:

The Multidisciplinary Clinic is composed of a team of experts in Dermatology, Rheumatology, Psychiatry, Nutrition and Nursing. This clinic is beneficial to the psoriasis patient

because they can be seen by the whole team during one clinic visit, thus, taking care of the patient as a whole. The multidisciplinary clinic has seen nearly 250 patients since its inception.

The Community Based Practice Research (CBPR): The CBPR involves the integration of our center, community dermatologists, and community members affected by psoriasis. The CBPR approach brings the expertise and knowledge of research and community members together. This approach will improve the quality of patient care through the expansion of researcher-clinician-patient partnerships that explore patient care.

National Psoriasis Foundation Walk for Awareness

The Murdough Family Center for Psoriasis has been approached by the National Psoriasis Foundation (NPF) to spearhead a Walk for Awareness in Cleveland in 2009.

Currently there are ten cities in the United States that hold walks each year raising about \$500,000.00 for education, advocacy and research.

The National Psoriasis Foundation plans on adding two cities to its roster in 2009, making Cleveland the number one addition. With the support of the NPF, and a great group of volunteers, we hope to schedule this walk for the summer of 2009. An endeavor like this will take 6-8 months to plan. If you have any suggestions on locations, dates or would like to help please contact Kathy Kavick R.N. at 216-844-0313 or email Kathleen.kavlick@UHhospitals.org

A Psoriasis Awareness program geared toward kids in the Cleveland/Akron area was initiated by Kevin Kavlick a junior at Medina Senior High School and the son of Kathy Kavlick R.N. (the Murdough Family Center for Psoriasis Outreach Nurse).

Kevin accompanied Kathy to the National Psoriasis Foundation Conference in Orlando, Florida in August and was introduced to Lauren Henschel the great granddaughter of Victor Henschel and the founder of the Miami Florida Youth Awareness program. Lauren has dreamt of having a youth program like hers in every city that holds a Walk for Awareness. After meeting, Kevin and Lauren decided Kevin would start the Cleveland/Akron chapter.

Kevin along with his friends, after some education and courses, will go into highschools at their request to educate kids on psoriasis in terms kids can understand. They will also raise money for the walk for awareness and encourage other schools to put walk teams together. If you would like to help with this new venture or have a child interested in helping please call Kevin at 330-721-9833 or contact Kathy Kavlick at 216-844-0313 or email Kathleen.kavlick@UHhospitals.org

Murdough Multidisciplinary Clinic

An example of the role that the clinic plays in assisting patients, their families, and their physicians, is exemplified in this story.

A 24 year old college student with severe psoriasis and psoriatic arthritis traveled with his mother from Boston, hoping to find the "World's best psoriasis care". When asked how they heard of our clinic, mom stated "We saw the psoriasis center on the internet, and knew that was where we have to go."

In a single afternoon, the patient was evaluated by our team of experts in dermatology, rheumatology, psychiatry and nutrition. Afterwards, the experts agreed on a plan of care that was

presented to the patient and his mother. He will take the recommendations made back to his dermatologist in Boston to be considered for integration into his ongoing treatment. The patient, also participated in our database study on prevalence of cardiovascular risk factors in psoriasis.

Our patient and his mother left with expressions of gratitude. They both stated that coming to Cleveland and to our facility "were definitely worth the trip". Mom has continued to keep in touch via email.

Clinical Trials & Studies

Psoriasis:

1. anti-IL-12 vs. Enbrel study:

- Moderate to severe psoriasis
- ≥ 18 y.o. & healthy
- Never used enbrel or anti-IL-12
- Twice-weekly injection
- 4 mo.-3yr. Total

2. Effects of Enbrel (etanercept) upon psoriatic skin when exposed to sunlight.

3. Pretreatment of Psoriatic lesions with an immune activator in combination with excimer laser light therapy.

4. Remicade® after Enbrel® failure:

- Plaque psoriasis & 18-75 y.o.
- Inadequate response to Enbrel®
- Visits: every 2-4 wks for 8 mo. total
- Enrolling now*

5. Raptiva® registry:

- Starting/currently on Raptiva for psoriasis
- Brief visit every 6 mo.
- No requirement to stay on Raptiva

6. Psoriasis disulfiram study:

- 18 y.o. & healthy
- oral med for 12 wks
- No alcohol consumption
- Enrolling now*

7. Psoriasis PC4:

The use of a photosensitizing topical drug, PC-4 (formulated here at CWRU) combined with laser slight on psoriatic lesions.

- Mild to severe psoriasis
- Off medications for 2 weeks
- Visits:
- Pending FDA action*

Photodamaged skin and atrophic acne scars:

Dr. Jorge Garcia-Zuazaga, Director of the UH Westlake Center for Laser and Aesthetic Dermatology, received a Dermatology Foundation Patient Directed Investigation Grant to study the molecular mechanism of fractional photothermolysis. This project has already received IRB approval and is currently enrolling volunteers.

Actinic Keratoses

- ≥ 18 y.o. & healthy
- Twice-weekly injection
- Monthly visits for 9 mo. Total
- Enrolling now*

Lichen Planus

- Moderate to severe LP
- ≥ 18 y.o. & healthy
- Twice-weekly injection
- monthly visits for 9 mo. Total
- Enrolling now*

Pyoderma Gangrenosum

- 18-75 y.o.
- Moderate to severe PG for 3+ mo.
- Inflammatory bowel disease (Crohn's or Ulcerative Colitis)
- Monthly visits for 6 mo. Total
- Enrolling now*

Dermatology Clinical Trials Unit Current & Upcoming Studies

For more information on our clinical trials, please call 216-844-7394 or 216-844-1913

New Aesthetics Center

UH Westlake Center for Laser and Aesthetic Dermatology to open in December 2008.

Directed by Dr. Jorge Garcia-Zuazaga, MD, MS, FAAD, the new Center will provide state of the art, safe, and effective services to address most cosmetic dermatology needs. A wide variety of lasers will be available on site; including non ablative laser resurfacing to treat wrinkles and fine lines, treatment of unwanted hair and tattoos as well as treatment of facial redness, telangiectasias and scars. In addition, we will provide the full range of soft tissue fillers, Botox injections and sclerotherapy to treat unwanted varicose veins.

During your initial consultation, our dedicated team will work with you to develop a plan to address your personal cosmetic goals and expectations. Come visit us soon and ask about our Opening Ceremony in December, 2008.

University
Hospitals
Case Medical Center

SKINERGY
DEPARTMENT OF DERMATOLOGY

The Department of Dermatology has recently implemented a change in research record keeping. The Department is currently in the process of switching to an entirely electronic online laboratory notebook. This move, pioneered by Drs. Pranab Mukherjee and Mahmoud Ghannoum and engineered by Mr. David Collins, has greatly enhanced the security measures implemented with our data as well as enhancing the ability of our staff and fellows to quickly access their notes, as well as share notes over our server system. The basis for our system is NoteBookMaker®, a totally secure and completely Virtual - Electronic Laboratory Notebook.

The software replaces our traditional paper notebook with a modern system that pro-

ducts our intellectual property process and allows a Virtual Librarian (VL) to take care of NoteBook Administration.

NoteBookMaker® has all the benefits of a database such as: searching, printing, emailing, importing and exporting, MS Office and Adobe Acrobat integration. The interface is an electronic 8.5"x11" notebook format, familiar to all of our researchers. The system also has several advantages over paper systems. First, the ability to perform a search on one or many parameters to generate a data set that can correlate our researcher's findings with other colleges or past work. Second, this system standardizes the look and feel of all of our data sets. This system also makes penmanship and spelling issues via hand written documents a non-issue. Third, is the ability to remotely

access the electronic laboratory notebook from any computer allows our researchers access to their data, security permitting, whether they are in the laboratory, in their office, at a seminar, or working out of the house. The notebook, in essence, becomes global. Finally, Notebooks will no longer be subject to being lost, misplaced or even destroyed as data is automatically backed up, & redundantly archived. This enhanced virtual notebook will help to keep the dermatology department on the scientific edge for years to come.

Mycology News

Mycology is just finishing up 2 large international topical terbinafine onychomycosis clinical trials for Novartis and will finish a 3rd Novartis trial in January, 2009. Now that the trials are ending, we are still very busy performing susceptibility testing on all of these isolates.

We also have two additional trials ongoing, with other trials for Schering-Plough and Stiefel to start soon. Dr. Ghannoum's OHARA grant, designed to test whether gentian violet is a viable alternative to the more expensive antifungals for the prevention of oropharyngeal candidiasis in AIDS patients, is currently in the review stage and will be starting sometime this year.

Welcome the newest BRB lab personnel:

Derek Chan, Fan Cui,
Janice Fishman, Wen Fu,
Ling Han, Jennifer Ohtola,
Myriam Rodriguez, Julie
Rosenjack, Chengping Yu

Grants and Awards

Dermatology Foundation

Dermatology Foundation research grants for 2008-9 were awarded at the 2008 AAD meeting in San Antonio, three of our faculty were among the recipients.

Jeremy S. Bordeaux, M.D.,

M.P.H., Project title: Multicenter Prospective Rare Cutaneous Tumor Database and Tissue Bank. *Clinical Career Development Award in Dermatologic Surgery.*

Jorge A. Garcia-Zuazaga, M.D.,

Project title: Fractional Photothermolysis for the treatment of photo-damaged skin and atrophic scars: An analysis of the molecular mechanisms of dermal remodeling with

clinical and histological correlations. *Patient Directed Investigation Grant*

Kurt Lu, M.D., Project title: Phenotypic and functional analysis of alternatively activated macrophages in skin inflammation.

Physician Scientist Career Development Award.

NIH Young Leaders Award

Kurt Lu, M.D.

K12 & Young Leaders Award

American Skin Association

Pratima Karnik, Ph.D.'s

proposal entitled "Role of PPAR Gamma regulatory pathways in scarring alopecias" received a

research grant from American Skin Association.

SDRC Pilot & Feasibility

SDRC review committee and SDRC Executive Committee

selected the following P&F studies for 2008-2009.

Radhika Atit, Ph.D., 2nd year -

"Role of Wnt signaling in craniofacial dermal development"

Alan Levine, Ph.D., Thomas McCormick, Ph.D., and Aaron Weinberg, DMD, Ph.D., 2nd

year - "Identification and regulation of defensins in human mucosal tissue"

Pratima Karnik, Ph.D., 2nd year - "Scarring Alopecia Phenotypes in PPAR gamma knockout animals"

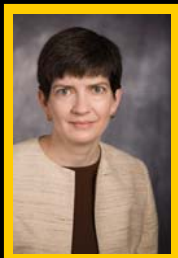
M.L. Nikki Harter, Ph.D. - "Epigenetic responses to solar UVR in melanocytes"

Minority Fellowship Award

Jorge Garcia-Zuazaga, MD was the recipient of the Henry Meyer III Key Bank Minority Fellowship Award.

Resident Retreat

Our Annual Resident Research Retreat was held at Holiday Valley in January 2008 during which residents presented their research projects.



Susan T. Nedorost, MD
Allopathic Residency
Program Director



Joan Tamburro, DO
Osteopathic Residency
Program Director

Danielle Moul, MD

An Open Label Single Center Pilot Study Investigating the Clinical Response and Mechanism of Action of Infliximab in the Treatment of Adults with Inflammatory Bowel Disease Who Have Moderate to Severe Pyoderma Gangrenosum.

Janine Miller, DO

The 308nm Excimer Laser for the Treatment of Oral Lesions: a Pilot Study.

Kurt Lu, MD

Dennis Nguyen, MD & Rishi Patel, MD

The Role of IL-6 and Macrophages in UVB Exacerbated Melanoma Tumor Growth.

Kelly Dehart, DO

Neurotransmitter Contribution to Elicitation of Nickel Allergy in Humans.

Todd Kreitzer, DO

1064 Nd: YAG Laser in the Treatment of Pseudofolliculitis Barbae

Rishi Patel, MD

IL-17 in psoriasis.

Marie Tuttle, MD

Merkel Cell Carcinoma and Sentinel Lymph Nodes.

Resistant *Staphylococcus*

aureus in Atopic Dermatitis and the Comparative Effects of Two Topical Antiseptics on Bacterial Density and Lesion Severity.

Margaret A. Kessler, MD

Expression of the Anti-apoptotic Ku70 in CTCL.

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Expression of the Anti-apoptotic Ku70 in CTCL..

Elliot Love, DO

Fabric Preference in Atopic Dermatitis.

Katalin Ferenczi, MD

Increased cell surface Ku70/Ku80 expression on T cells following apoptosis or activation inducing signals.

Shannon Routhouska, MD

A Prevalence Study Measuring Cardiovascular Disease Risk in Psoriasis Patients Compared to Controls.

Maria Robinson, MD

Psoriasis, Systemic Therapy, and Cardiovascular Risk.

Susan Keiler, MD

Prevalence of Methicillin-Resistant *Staphylococcus aureus* in Atopic Dermatitis and the Comparative Effects of Two Topical Antiseptics on Bacterial Density and Lesion Severity.

Eun Ji Kwon, MD

Chemokine receptor expression in metastatic cutaneous squamous cell and Merkel cell carcinomas.

Congratulations to Our Graduates!



2008 Resident Graduates:

Residents:

William (Kelly) DeHart, D.O., entered private practice at Pariser Dermatology at 11842 Rock Landing Dr, Suite 120, Newport News, Virginia, 23606; phone: (757) 595-8816; cell: 440-537-1773, Email: kdcub@yahoo.com

Kaija K. Hanneman, D.O., entered private practice at Pariser Dermatology at 11842 Rock Landing Dr, Suite 120, Newport News, Virginia, 23606; phone: (757) 595-8816; cell: 330-608-1811

Email: kaija.k.hanneman@dmu.edu

Kurt Lu, M.D., joined the Department of Dermatology at University Hospitals Case Medical Center 11100 Euclid Avenue, Cleveland, Ohio 44106; Phone: 216-844-8200; cell: 216-338-2105

Email: kurt.lu@UHhospitals.org

Danielle K. Moul, M.D., entered a Dermatological Surgery Fellowship at the Scripps Clinic/Division of Mohs/Dermatology, 10666 North Torrey Pines Road, La Jolla, California 92037; cell: 410-952-6996,

Email: daniellemoul@msn.com

Dennis H. Nguyen, M.D., entered a Dermatological Surgery Fellowship in the Department of Dermatology at SUNY Downstate Medical Center, 450 Clarkson Avenue, Box 46, Brooklyn, NY 11203
Cell: 415-310-6858

Email: dennguyen@gmail.com

Rishi R. Patel, M.D., entered a Dermatopathology Fellowship in the Department of Dermatology at NYU School of Medicine, Bellevue Hospital Center, 530 First Avenue, Suite 7J, New York, New York 10016
Cell: 216-533-0972

Email: rishipatel25@gmail.com

Ally-Khan Somani, M.D., Ph.D., entered a Dermatological Surgery & Cutaneous Oncology Fellowship in the Department of Dermatology & Plastic Surgery Institute at Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195; phone: 216-444-3347; cell: 216-849-6123

Email: ak.somani@utoronto.ca

2008 Fellow Graduates:

Mary Bennett, M.D. (Fellow, Cutaneous Oncology) returned to her dermatology residency program in Ireland to continue her training. Her forwarding address is: "Maymount", Sunday's Well Road, Cork, Ireland. Phone: 011-353-87-9481663

Email: maryfrancesbennett@gmail.com

Diana Santo-Domingo, M.D. (Fellow, Skin Study Center) moved to Key Biscayne, Florida with her husband. Her forwarding address is: 12 Turtlewalk, Key Biscayne, FL 33149
Phone: 917-576-1524

Email: d_santo_domingo@yahoo.com

Pamela Summers, M.D. (Fellow, Cutaneous Oncology), took a position as Clinical Trials Fellow in the Department of Dermatology at The Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195

Email: psummers.md@hotmail.com

Marjorie Yang, M.D. (Fellow, Murdough Family Center for Psoriasis), took a residency position in the Department of Dermatology at Indiana University School of Medicine, 550 N. University Blvd., Suite 3240, Indianapolis, IN 46202

Phone: 216-577-3278

Email: mfyang@hotmail.com

Welcome New Residents!



Ramona Behshad, M.D.

Allopathic Division:

Dr. Behshad is a graduate from the Case Western Reserve University School of Medicine and completed per Preliminary Year in Internal Medicine at the Banner Good Samaritan Medical Center, Carl C. Hayden Veterans Affairs Medical Center in Phoenix, Arizona. She is fluent in Farsi and Spanish and enjoys art projects, athletics, piano and spending time with family.



Amy Helms, M.D.

Dr. Helms is a graduate from the Uniformed Services University of Health Sciences School of Medicine and completed her Preliminary Year in Medicine at Riverside Methodist Hospital in Columbus, Ohio. She enjoys playing the piano, theatre, swimming, traveling with family and participating in community service events with the American Cancer Society and Relay for Life.



Peggy Myung, M.D., Ph.D.

Dr. Myung is a graduate from the University of Pennsylvania School of Medicine and completed her pre-dermatology training in the Departments of Surgery and Otorhinolaryngology Head and Neck Surgery at the Hospital of the University of Pennsylvania in Philadelphia. She enjoys running and has participated in the Philadelphia half-marathon. She also enjoys knitting, sketching, cooking and reading novels.



Angela Brimhall, D.O.

Osteopathic Division:

Dr. Brimhall is a graduate from the University of North Texas Health Science Center-Texas College of Osteopathic Medicine and completed her Transitional Year in the Department of Medicine at University Hospitals Case Medical Center. She enjoys running, hiking, in line skating, aerobics, musical theater, classical piano, exchanging recipes, reading and travel.



Tina Rakkhit, M.D.

Dr. Rakkhit is a graduate from Emory University School of Medicine and completed her Transitional Year in the Department of Medicine at Emory University in Atlanta, Georgia. She is fluent in German and Bengali and enjoys dance (Indian folk and semi-classical, Jazz, Ballet), choreography (both Western and ethnic genres), aerobics instruction, ultimate Frisbee, basketball, cooking and traveling.



Autumn Potaracke, D.O.

Dr. Potaracke is a graduate from the Virginia College of Osteopathic Medicine and completed her Traditional Rotating Internship at University Hospitals Richmond Medical Center. She enjoys running, hiking, in line skating, aerobics, musical theater, classical piano, exchanging recipes, reading and travel.

Twins Day

August 2nd and 3rd, 2008 was the annual Twins Day festival in Twinsburg, Ohio. For several years the University Hospitals of Cleveland-Case Western Reserve University department of dermatology has participated in an IRB approved research study focusing on the genetic basis of skin disease in identical and fraternal twin pairs. This year was also the second year of our alopecia study in coordination with Dr. Paradi Mirmirani. We had the opportunity to laugh with and learn from over 250 twin pairs who answered questionnaires and told us their life stories, and the weather could not have been better!

Thousands of twin pairs have graciously participated in our research study during these past years, often with standing room only while be offered no more than sunscreen and a piece of candy for their time. Those volunteering this year included dermatology residents, dermatology research fellows, interns, and medical students with guidance by our principal investigator and dermatology chairman, Dr. Kevin D. Cooper. The information will soon be analyzed for future publications. We look forward to looking at new data related to skin disease for the years to come and look ahead to the many new twin pairs we will meet.



2008 Montagna Symposium — The Biologic Basis of Psoriasis

The annual **MONTAGNA SYMPOSIUM ON THE BIOLOGY OF SKIN** was initiated at Brown University in 1950 by Dr. William Montagna. The symposia grew from the real need to communicate investigative work in cutaneous biology and to provide a link between basic scientists studying the skin in man and animals and clinically trained scientists in investigative dermatology. Since its inception, over 5,000 scientists, physicians, and students from throughout the world have attended the symposia, which each year addresses a single major topic in cutaneous biology.

The 2008 Montagna Symposium on the Biology of Skin promises in-depth discussion of psoriasis: the latest research in pathogenesis, genetics and drug design, the new questions being framed from clinical experience, and the strategies for translating the science to more effective treatments.

The meeting will include sessions on the immunology of psoriasis, the genetics of psoriasis, mouse models of psoriasis, and

discussions on how advances in these areas may translate into new therapies, incorporating perspectives emerging from related fields.

Recent discoveries in related fields include T cell subpopulations, cytokines, genetic susceptibility factors, antigen identification, autoimmunity and innate immunity, cell surface proteins and extracellular matrix interactions and their relationship to keratinocyte proliferation, terminal differentiation and transit through the epidermis.

The Murdough Family Center for Psoriasis is proud to be a Patron Sponsor of this year's Montagna Symposium, October 2-6, 2008 in Salishan Resort, Oregon. Dr. Kevin Cooper is one of the invited speakers; Dr Hideaki Sugiyama will also have an oral presentation at the meeting entitled "CCR5 expressing CD4+CD25^{high} regulatory T cells are both numerically and functionally impaired in patients with psoriasis vulgaris."

Mini Symposium: "Immunoregulation at the antigen presenting cell—T effector cell— T regulatory cell interface: role in disease and therapies."

The Department of Dermatology in conjunction with the NIH/NIAMS CORT and MFCP co-sponsored a Mini Symposium in June 2008. The focus of the symposium was: Immunoregulation at the antigen presenting cell—T effector cell— T regulatory cell interface: roles in disease and therapies. Our featured speaker, Dr. Thomas Schwarz, M.D., Professor and Chair of the Department of Dermatology, University Hospital Schleswig-Holstein in Kiel Germany, led the symposium which examined the interaction of T cells in the skin, immunological consequences of UV-light exposure and dendritic cell response. Other invited speakers included:

Keynote Lecture: UV-induced immunosuppression: facts and consequences

Thomas Schwarz, M.D.
Professor & Chairman of
Dermatology
University Hospital Schleswig-Holstein,
Campus Kiel, Kiel, Germany

Kevin D. Cooper, M.D.
Welcome & Introduction

Hideaki Sugiyama, M.D., Ph.D.
Regulatory T cells in Psoriasis

Thomas McCormick, Ph.D.
UV-induced immunosuppression

Rob Fairchild, Ph.D.
The memory T cell barrier in transplantation

Hironori Matsushima, Ph.D.
Identification of immediate dendritic cell precursors in newly generated IL-1 α promoter drivenDsRed transgenic mice

Rachel Mohr
Development of novel intravital Imaging system for real-time monitoring of macromolecule endocytosis by Langerhans cells *in situ*

Ken Cooke, M.D.
T-cell responses in graft-versus-host disease

Thomas Schwarz, M.D.
Mode of action of extracorporeal photopheresis: Role of regulatory T cells

Kevin D. Cooper, M.D.
Discussion & Wrap up



**Murdough Family
Center for Psoriasis**

**NIH/NIAMS
Center of Research
Translation in Psoriasis**

Our residents had a strong presence at the ASDP 44th Annual Meeting, Oct 18-21, 2007, Baltimore, MD including:

Routhouska SB, Ke M, Honda K, Gilliam A. Cutaneous mycobacterium chelonae infection

Kwon EJ, Kristjansson AK, Myerson H, Tung R, Fedele G, Honda K, Gilliam A, McNiff J. Recurrent pseudolymphomatous folliculitis mimicking cutaneous lymphoma
Sung JJ, Chen T, Honda K, McCalmont T, Gilliam A. Vitiligo like destruction of melanocytes in juvenile localized scleroderma

Ferenczi K, Lindstrom E, Cooper K, Honda K, Baron E, Gilliam A, Santodomingo D. Cutis verticis gyrata in a patient with nevoid basal cell (Gorlin) syndrome

Kristjansson AK, Sung JJ, Love E, Cooper K, Gilliam A. Radiation-associated cutaneous atypical vascular lesion

Chang TT, Gildea J, Golitz L. Immunohistochemical staining of atypical fibroxanthomas with CD019 and procollagen I

Miedler J, Love E, Smith M. Primary cutaneous nodular amyloidosis: a case report

Dehart WK, Gilliam A, Lu K, Brell J. Temozolomide responsive metastatic melanoma presenting as multiple, ecchymotic subcutaneous nodules

Patel RR, Gosnell A, Tamburro J, Gilliam A. Epidermal nevus syndrome with smooth muscle hamartoma

Kessler MA, Haur H, Cooper K. A case of erythematous supravenuous drug eruption: one end of the serpentine spectrum

Miedler J, Kristjansson, Gilliam A. Secondary extramammary Paget's disease of the vulva of urothelial origin

2008 AAD — February 1-5, 2008 in San Antonio, TX

Residents & Fellows Presentations:

W. Elliot Love, DO, Susan Nedorost, MD

Fabric Preference in Atopic Dermatitis

Yang MF, Diaz M, Husni ME, Cooper KD, Korman NJ.

Development and reliability of a comprehensive questionnaire on the risk factors, epidemiology and comorbidities of psoriasis. *Journal of Investigative Dermatology.* 2008, Apr; 128(S1):85. Pub Status: Published.

Yang MF, McCormick TS, Cooper KD, Korman NJ.

Establishing an interface between a multidisciplinary psoriasis center and community-based participatory research in psoriasis: A new paradigm. *Journal of Investigative Dermatology.* 2008, Apr; 128(S1):79. Pub Status: Published.

Somani AK and Yang MF, Cooper KD, McCormick TS.

Cytokines and psoriasis: when cytokines become pathokines. *Giornale Italiano di Dermatologia e Venereologia.* 2007, December; 142(6):679-690. Pub Status: Published.

Santo Domingo D, Yang MF, Cooper KD, Baron ED.

UV induced immune suppression a brief review. *Giornale Italiano di Dermatologia e Venereologia.* 2007, Jun; 142(3):251-258. Pub Status: Published.

Yang MF, Baron ED.

Update on the immunology of ultraviolet and visible radiation therapy: Phototherapy, photochemotherapy and photodynamic therapy. *Expert Review of Dermatology.* 2008, February 2008; 3(1):85-98. Pub Status: Published.

Mary Bennett, M.D.

Dr. Mary Bennett received the Everett C. Fox, MD Award (formerly the Stelwagon Award), given presenters of the most outstanding papers at the symposium.

Faculty presentations/lectures:

Kord Honda, M.D.

Advanced dermatopathology self assessment Medical dermatology and histology

Susan Nedorost, M.D.

Program Chair American Contact Dermatitis Society Meeting

Director Contact and Occupational Dermatitis Symposium

Lecture at Contact and Occupational Dermatitis Symposium "Alternative for the NACDG Allergens" Lecture at Contact Dermatitis Course "Patch Testing Materials and Methods"

Neil Korman, M.D., Ph.D.

"Should One Of The Goals Of Psoriasis Treatment Be Controlling Cardiovascular Disease?"

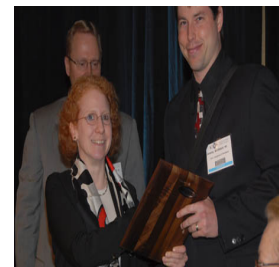
"A New Psoriasis Patient Management Concept That Includes Community Dermatologists, NP's, And Local Experts"

"When And How To Use Scary Drugs", American Academy of Dermatology, San Antonio, TX, February, 2008.

Jeremy Bordeaux, M.D., MPH

"Conceptual Reconstruction", Presented at 2008 AAD

"Prospective Evaluation of Dermatologic Surgery Complications Including Patients on Multiple Anti-coagulants" Presented at 2008 American College of Mohs Surgery Meeting in Vancouver, Canada (note: this presentation won the Tromovich Award which is given to a mohs surgeon for outstanding research.



2008 IID-May 14-17, Kyoto, Japan

The Department's special strength in translating science to clinical applications in Dermatology was evident at the International Investigative Dermatology meeting, where we presented many new findings. The detailed abstracts of these titles can be found in the Journal of Investigative Dermatology (2008), Volume 128, with the abstract number designated after the authors.

We are very proud of Dr. Tom McCormick, who gave a major plenary address on **Psoriasis Immunology: New Concepts in Pathophysiology.**

***Evidence for co-dependence within the cutaneous neurovascular niche: immunocyte, nerve and blood vessel interactions.** DA Hatala, JA Wolfram and NL Ward.(S3)

The anti-angiogenic effects of topical epigallocatechin-3-galate (EGCG) on human skin. AH Hsia, D Santo Domingo, NL Ward, M Matsui, D Maes, KD Cooper and ED Baron. (S4)

***CCR5 expressing CD4⁺CD25^{high} regulatory T cells are both numerically and functionally impaired in patients with psoriasis vulgaris.** H. Sugiyama, T. McCormick, J. Massari, S. Shimada, and K. Cooper. (S13)

***A novel reversible model of psoriasis following epidermal overexpression of Tie2.** JA Wolfram, D Diaconu, DA Hatala, A Lowther, D Askew, AC Gilliam, TS McCormick and NL Ward. (S13)

Macrophage mediated UVB-induced-immunosuppression occurs via IL-6. KQ Lu, E Toichi, TS McCormick, KD Cooper. (S185)

Silicon phthalocyanine photodynamic therapy for treatment of cutaneous neoplasms. ED Baron, D Santo Domingo, AH Hsia, V Colussi, NL Oleinick, T Foster, TK Lee and KD Cooper. (S66)

Effects of pimecrolimus vs triamcinilone on skin Langerhans cells after simulated solar irradiation. D Santo Domingo, AH Hsia, K Martires, A Plotner, KD Cooper and ED Baron. (S67)

Establishing an interface between a multidisciplinary psoriasis center and community-based participatory research in psoriasis: A new paradigm. M.F. Yang, N. Delnay, T.S. McCormick, K.D. Cooper, N.J. Korman. (S79)

Development and reliability of a comprehensive questionnaire on the risk factors, epidemiology and comorbidities of psoriasis. MF Yang, M Diaz, ME Husni, KD Cooper and NJ Korman.(S85)

Characterization of Glycoprotein A repetition predominant protein (GARP) identified as a novel gene marker of human CD4⁺CD25^{high} regulatory T cells (Treg). A Somani, A Young, H Sugiyama, A Bookout, M Lam, KD Cooper and TS McCormick.. (S114)

Pro-inflammatory Lipid Mediators in the Pathogenesis of Cicatricial Alopecia. P Karnik, LF Xu, K Honda, TS McCormick, VH Price, KD Cooper and P Mirmirani. (S153)

Increased cell surface Ku70/Ku80 expression on T cells following apoptosis or activation inducing signals. K. Ferenczi, A. Somani, M. Kessler, A. Young, H. Sugiyama, A. C. Gilliam, S. Matsuyama, T. McCormick, K. D. Cooper. (S183)

Ski-infiltrating macrophages migrate to draining lymph nodes and produce IL-10 in UV induced tolerance. E Toichi, KQ Lu, AR Swick, TS McCormick and KD Cooper. (S208)

Decreased expression of follicular transglutaminases: A possible cause for loose anchoring of anagen hair in active primary cicatricial alopecia. P Mirmirani, VH Price and P Karnik. (S48)

Human primary keratinocytes exhibit alterations in thioredoxin and p53 pathway gene expression after combined exposure to UV and di-nitrobenzene sulfonic acid (DNBS). M Bennett, LF Xu, L Liu, TS McCormick, KD Cooper and P Karnik. (S206)

* indicates an oral presentation





Skin Diseases
Research Center

SDRC Lecture Series Schedule

SDRC Lecture Series 2008-2009
Sponsored by University Hospitals Case Medical Center
and Case Western Reserve University School of Medicine
Dermatology Grand Rounds & Lecture Series 2nd and 4th Thursdays
7:30 am Grand Rounds: patient viewing - 3100 Bolwell Center
8:15 am Grand Rounds: patient discussions – BRB Auditorium (BRB 105)
9:30-10:30 am Speaker Lecture - BRB Auditorium (BRB 105)
(Unless otherwise noted)

Date	Thurs. 9:30 am SDRC Speaker BRB Auditorium (BRB 105)	Topic
July 10, 2008	Anna N. Yaroslavsky, Ph.D. (BRB 532)	Intraoperative Optical Guidance of Skin Cancer Surgery
September 11, 2008	No Speaker – CDS meeting at UH	
October 9, 2008	Gary Wood, M.D.	FAS Apoptotic Pathway Abnormalities in CTCL
November 27, 2008	No Speaker – Happy Thanksgiving!	
No December & January speakers	No Speakers – Residency Interviews	
February 12, 2009	Brian Nickoloff	Pathophysiology of cutaneous inflammation
February 26, 2009	Abrar A. Qureshi, M.D., M.P.H. BRB 532	Psoriatic Arthritis
March 12, 2009	Nora Singer, M.D.	Current therapies for osteoarthritis and synovitis
April 9, 2009	Howard Chang, M.D.	A system biology approach to anatomic diversity of skin
May 14, 2009	Shinji Shimada, M.D. (tentative)	The role of resident mast cells in the skin
June 11, 2009	Sarah Millar, Ph.D.	miRNA processing enzyme Dicer is essential for the morphogenesis and maintenance of hair follicles

Upcoming Meetings & Events

Research Division Faculty
Meetings **1st, 3rd, 5th**
Thursday of every month
at 7:30am

Administrative Meeting-**3rd**
Thursday of even
months.
(BRB Conference Room)

Multidisciplinary Psoriasis
Clinic **Last Tuesday of**
every month 3-5pm
Dermatology Bolwell
Clinic 3100

Clinical Division Faculty Meetings
Once a quarter, Thursday at
7:30am (exact date TBA)
(Lakeside Conference Room)

Resident Advisory Committee
Meeting **2nd Tuesday of every**
quarter at 7:30am
(Lakeside Conference Room)

Clinical Site Leads Meeting **4th**
Thursday of every month at
7:30am(Lakeside Conference
Room)

Murdough Family Center for
Psoriasis Meeting **First and Third**
Tuesday at 9:30am(Lakeside
Conference Room)

Dermatopathology Conference
Dermpath Core is every
other Monday 4-5pm
(Lakeside Conference
Room)

Multidisciplinary Cutaneous
Oncology Programs
Melanoma Lymphoma,
Merkel & Squamous Cell,
DFSP conferences: biweekly
4-5pm
(Lakeside Conference
Room)

06/2007 – 05/2008 Publication list by Dermatology Faculty

Camouse MM, Swick AR, Ryan CA, Hulette B, Gerberick F, Tinkle SS, **Nedorost ST, Cooper KD, Stevens SR, Baron ED**. Determination of in vivo dose response and allergen-specific T cells in subjects contact-sensitized to squaric Acid dibutyl ester. *Dermatitis*. 2008 Mar-Apr;19(2):95-9. PMID: 18413111

Bennett MF, Robinson MK, **Baron ED, Cooper KD**. Skin immune systems and inflammation: protector of the skin or promoter of aging? *J Investig Dermatol Symp Proc*. 2008 Apr;13(1):15-9. PMID: 18369334

Ke MS, Xue LY, Feyes DK, Azizuddin K, **Baron ED, McCormick TS, Mukhtar H, Panneerselvam A, Schluchter MD, Cooper KD, Oleinick NL, Stevens SR**. Apoptosis mechanisms related to the increased sensitivity of Jurkat T-cells vs A431 epidermoid cells to photodynamic therapy with the phthalocyanine Pc 4. *Photochem Photobiol*. 2008 Mar-Apr;84(2):407-14. PMID: 18221452

Behshad R, **Cooper KD, Korman NJ**. A retrospective case series review of the peroxisome proliferator-activated receptor ligand rosiglitazone in the treatment of atopic dermatitis. *Arch Dermatol*. 2008 Jan;144(1):84-8. PMID: 18209172

Love WE, Miedler JD, Smith MK, Mostow EN, **Cooper KD, Gilliam AC**. The spectrum of primary cutaneous nodular amyloidosis: Two illustrative cases. *J Am Acad Dermatol*. 2008 Feb;58(2 Suppl):S33-5. PMID: 18191697

Ke MS, Camouse MM, Swain FR, Oshtory S, Matsui M, Mammone T, Maes D, **Cooper KD, Stevens SR, Baron ED**. UV protective effects of DNA repair enzymes and RNA lotion. *Photochem Photobiol*. 2008 Jan-Feb;84(1):180-4. PMID: 18173718

Doshi DN, Hanneman KK, **Cooper KD**. Smoking and skin aging in identical twins. *Arch Dermatol*. 2007 Dec;143(12):1543-6. PMID: 18087005

Bordeaux JS, Lu KQ, Cooper KD. Melanoma: prevention and early detection. *Semin Oncol*. 2007 Dec;34(6):460-6. Review. PMID: 18083369

Miller JD, Kirkland EB, Domingo DS, Scull H, Jekutis B, Dallas M, **Cooper KD, Baron ED**. Review of extracorporeal photopheresis in early-stage (IA, IB, and IIA) cutaneous T-cell lymphoma. *Photodermatol Photoimmunol Photomed*. 2007 Oct;23(5):163-71. Review. PMID: 17803594

Oshtory S, Apisarnthanarax N, **Gilliam AC, Cooper KD**, Meyerson HJ. Usefulness of flow cytometry in the diagnosis of mycosis fungoides. *J Am Acad Dermatol*. 2007 Sep;57(3):454-62. PMID: 17707150

Gottlieb AB, **Cooper KD, McCormick TS**, Toichi E, Everitt DE, Frederick B, Zhu Y, Pendley CE, Graham MA, Mascelli MA. A phase I, double-blind, placebo-controlled study evaluating single subcutaneous administrations of a human interleukin-12/23 monoclonal antibody in subjects with plaque psoriasis. *Curr Med Res Opin*. 2007 May;23(5):1081-92. PMID: 17519075

Miller JD, **Baron ED**, Scull H, Hsia A, Berlin JC, **McCormick T**, Colussi V, Kenney ME, **Cooper KD, Oleinick NL**. Photodynamic therapy with the phthalocyanine photosensitizer Pc 4: the case experience with preclinical mechanistic and early clinical-translational studies. *Toxicol Appl Pharmacol*. 2007 Nov 1;224(3):290-9. Review. PMID: 17397888

Wang M, **Mukherjee PK**, Chandra J, Lattif AA, **McCormick TS, Ghannoum MA**. Characterization and partial purification of *Candida albicans* Secretory IL-12 Inhibitory Factor. *BMC Microbiol*. 2008 Feb 19;8:31. PMID: 18282300

Traboulsi RS, **Mukherjee PK, Ghannoum MA**. In vitro activity of inexpensive topical alternatives against *Candida* spp. isolated from the oral cavity of HIV-infected patients. *Int J Antimicrob Agents*. 2008 Mar;31(3):272-6. PMID: 18242063

Imamura Y, Chandra J, **Mukherjee PK**, Lattif AA, Szczotka-Flynn LB, **Pearlman E**, Lass JH, O'Donnell K, **Ghannoum MA**. Fusarium and Candida albicans biofilms on soft contact lenses: model development, influence of lens type, and susceptibility to lens care solutions. *Antimicrob Agents Chemother*. 2008 Jan;52(1):171-82. PMID: 17999966

Yeater KM, Chandra J, Cheng G, **Mukherjee PK**, Zhao X, Rodriguez-Zas SL, Kwast KE, **Ghannoum MA**, Hoyer LL. Temporal analysis of Candida albicans gene expression during biofilm development. *Microbiology*. 2007 Aug;153(Pt 8):2373-85. PMID: 17660402

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Domingo DS, **Baron ED**. Melanoma and nonmelanoma skin cancers and the immune system. *Adv Exp Med Biol*. 2008;624:187-202. PMID: 18348457

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Dehart WK, **Gilliam AC**, **Lu KQ**, Brell J. A rare case of melanoma recurring as subcutaneous metastatic melanoma with overlying ecchymoses. *Arch Dermatol*. 2008 Apr;144(4):561-2. PMID: 18427064

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