Center for Dermal Research

B. Michniak-Kohn, Ph.D.
Director
Professor of Pharmaceutics (Pharmacy), Rutgers University
Mission

- The CDR will provide
  - professional development opportunities for its paid industrial members
  - networking with researchers from industry and academia
  - research collaborations with the Laboratory for Drug Delivery (LDD) headed by Michniak-Kohn
  - connections with other faculty & research groups conducting skin research
Vision

• To be the premier dermatopharmaceutics research center in NJ conducting studies on topical and transdermal compound delivery, skin biology and skin tissue engineering. The CDR will also provide quality educational opportunities for its members through workshops, seminar series, symposia and courses.
Websites

• www.michniaklab.org
• www.njbiomaterials.org
Program Planning Committee

- Bo Michniak-Kohn, Pharmacy/Director CDR
- Otto Mills & Jeff Laskin - UMDNJ/Basic & Applied Dermatology Forum
- Joanne Gere - The Bioscience Collaborative
- Carole Kantor, John Bushby, NJCBM
- Nava Dayan - Lipochemicals, Inc. & NYSCC
- President, NJ CRS Student Chapter
- President, NJ AAPS Student Chapter
CDR forms strategic partnerships

• UMDNJ/Basic & Applied Dermatology Forum-clinical aspects of skin science
• The Bioscience Collaborative- small companies, start-ups & investors in tristate
• NJ Center for Biomaterials- devices & materials & skin regeneration
• NY Society of Cosmetic Chemists
• NJ Controlled Release Society Student Chapter
• NJ AAPS Student Chapter
Faculty in Dermal Research

- Jeff Laskin Ph.D.- UMDNJ
- Pat Sinko, Ph.D., Don Gerecke, Ph.D., Marion Gordon, Ph.D., Allan Conney, Ph.D., Debra Laskin, Ph.D.-Pharmacy, Rutgers
- Philip Wertz Ph.D., University of Iowa
- Martin Yarmush Ph.D., BME-Rutgers
- Francois Berthiaume Ph.D., BME-Rutgers
- Larisa Sheihet Ph.D.- Chemistry/NJCBM-Rutgers
- Jared Bushman Ph.D.-Chemistry/NJCBM-Rutgers
- Sangeeva Murthy Ph.D.-Chemistry/NJCBM-Rutgers
- Richard Mendelsohn Ph.D.-Chemistry Rutgers
- Melissa Magliocco M.D.-Dermatology-UMDNJ
- Richard Clark M.D.-Stony Brook
- Adam Singer M.D.-Stony Brook
- Georgia Levis-Schuller Ph.D.-NYS Institute for Basic Research, NY
- Simon Laurent, Ph.D.-NJIT
- Others to be added
Annual Skin Workshop-premier event

- 1st Annual Skin Workshop “Spotlight on Skin Research”, June 25th **2007**.
- 2nd Annual Skin Workshop “New developments in dermaceuticals and wound care”, September 30th, **2008**.
- Skin Deep Symposium in conjunction with The Bioscience Collaborative, July 15, **2009**.
- Pharmaceutics Conference 2009 “Innovations in Drug Delivery Technologies”, November 20, **2009**.
- 3rd Annual Skin Workshop “Alternatives to animal testing for topical products/Taking Innovations to market, October 22, **2010**.
- 4th Annual Skin Workshop “Skin reconstruction for wounds, burns and deep skin trauma”, co sponsored by Armed Forces Institute of Regenerative Medicine-AFIRM, October 13, **2011**. Plenary speakers Richard Clark (SUNY-Stony Brook), Adam Katz (Charlottesville, VA), Steven Boyce (Cincinnati), Speaker from FDA (TBC), industry (TBC).
CDR Spring Meetings

- **2010**: Philip Wertz, Ph.D., “Lipids and the Permeability Barrier of Skin”, University of Iowa, Iowa City, IA. April 22, 2010.

- **March 3, 2011**: KEYNOTE: Angela Christiano, Ph.D. Richard & Mildred Rohdebeck Professor of Dermatology, Vice-Chair & Director of Basic Science Research Group (co-hosts: Bioscience Collaborative and UMDNJ RWJ Medical School).

- Dr. Kishore Shah from Polytherapeutics, Inc. Bridgewater will present on “PharmaDur- a novel dermal & transdermal delivery system”


- Sponsored by NJCBM and the NJ Controlled Release Student Chapter (co-hosts: Bioscience Collaborative and UMDNJ RWJ Medical School).
CDR Lecture Series

• The CDR Lecture Series will feature 8-10 speakers per year.
• These events are free for all CDR members.
• The seminar series is now in its 10th year and offers a wide variety of speakers in the broad area of skin research both on the academic as well as industrial sectors (speakers from the pharmaceutical, cosmetic, personal care, regulatory areas).
CDR Lecture Series

- Eight speakers for 2011
- David Moore (ISP), Francois Berthiaume (Rutgers-BME), Larisa Sheihet (Rutgers-Chemistry), Jeff Mills (DC-IP issues), Connie Lin (J&J), Neelam Muizzuddin (Estee Lauder), Georgia Levis-Schuller (NYS Institute for Basic Research, Staten Island, Qian Zhang (Avon).
- Selected Mondays at 5.30 pm starting March 21st, 2011 in Life Sciences Building Auditorium.
- Check njbiomaterials.org for Calendar of Events.
Clinical Roundtables

- Panel discussions in an informal atmosphere
- Reduced rates for CDR members
- Clinician(s) invited to present aspects of diseases and also discuss their problems with current treatments & formulations
- Other perspective is to have researchers with solutions for possible dermatological applications discuss clinical aspects with dermatologists
- Spring and Fall event (first on week of May 16, 2011)
- Amy Pappert, M.D. dermatologist, UMDNJ. “Current Issues in Atopic Dermatitis: Basic Science meets Clinical Practice”
CDR Webinars & Training Courses

• Reduced rates for CDR members
• Leading presenters from pharma, personal care, cosmetic industries and academics
• Topics – plan is to have 2011 CDR Seminar series available as webinars-d details forthcoming
• Training courses planned for 2012 in topics such as in vivo confocal microscopy & Q sense equipment.
Course in Dermatopharmaceutics

- Will be offered in Spring 2012
- Evening course to accommodate industrial partners
- Reduced rates for CDR members
- Leading presenters from pharma, personal care, cosmetic industries and academics
- Physiology & pharmacology of skin, skin diseases, percutaneous absorption in vitro & in vivo, delivery systems & formulations-topicals and transdermals, skin metabolism & biochemistry, clinical testing, spectroscopy & imaging + other techniques, regulatory aspects.
Basic & Applied Dermatology Forum

- Otto Mills, Ph.D., FACP, Founder
- Adjunct Professor, Department of Dermatology, RWJ
- Now in its 14th year, several programs are offered each year that explore facets of dermatology research and practice
- Activities are hosted by EOSHI-UMDNJ RWJ Medical School and NJCBM/Michniak-Kohn Laboratory for Drug Delivery at Rutgers University
- May 24th, 2011 one day “Course on Skin Products”
- Other events to be announced soon
Bioscience Collaborative events

• Joanne Gere runs the Bioscience Collaborative, Princeton

• Skin Deep Symposium on “Anti-aging and Skin” for June 20, 2011. Audience is mix of scientists from industry, academia, investors, small start-ups in tri-state area

• Combined with CDR Seminar for June by Dr. Qian Zheng (Avon) “Critical Role of Paxillin in Aging of Human Skin”.

• Speakers TBA.
• March 3rd ---- Inaugural launch of the Center for Dermal Research/ Spring CDR meeting

• March 21st ---- CDR Seminar Series Larisa Sheihet, Ph.D. (Rutgers, Chemistry/NJCBM) “TyroSpheres: Delivery of challenging molecules to the skin”

• April 18th ---- CDR Seminar Series Georgia Levis-Schuller, Ph.D. (NYU Medical Center, New York, NY, Columbia University New York, NY, and NY State Institute for Basic Research in Developmental Disabilities, Staten Island NY) “Epidermal taurine: a new therapeutic approach to aging skin”

• May 19th ---- CDR Clinical Roundtable Amy Pappert, M.D. (UMDNJ Dermatology) “Atopic dermatitis”

• May 23rd ---- CDR Seminar Series Connie Lin, Ph.D. (J&J) “In vitro models for the evaluation of skin care agents and formulations”.

• May 24th ---- Basic and Applied Dermatology Forum’s one day Course on Skin Products (Speakers Drs. Zatz, Steinberg and Mills).

• May 25th ---- “Mighty Mouse” Symposium (Bioscience Collaborative) “Animal models that drive new data”

• June 20th ---- Skin Deep Symposium (Bioscience Collaborative) on “Anti-aging and Skin” and CDR Seminar Series Qian Zhang Ph.D. (Avon Products, Inc.) “Critical role of paxillin in aging of human skin”

• July 18th ---- CDR Seminar Series David Moore Ph.D. (ISP) “Vibrational spectroscopy and imaging of skin: from barrier models to intact tissues”

• September 19th ---- Neelem Muizzuddin Ph.D. (Estee Lauder) “Historical perspective of clinical research”

• October 13th ---- 4th Annual Skin Workshop “Skin reconstruction for wounds, burns and deep skin trauma”, co sponsored by Armed Forces Institute of Regenerative Medicine-AFIRM.

• November XXX ---- CDR Clinical Roundtable Steven Q. Wang M.D. (Head, Basking Ridge Dermatology Section; Director of Dermatologic Surgery, Basking Ridge) Topic to be decided.

• November 21st ---- CDR Seminar Series Jeff Mills Ph.D. Esq. (Fanelli Strain & Haag PLLC-Legal) “Challenges in patenting dermatologic innovations”

• December 5th ---- CDR Seminar Series Francois Berthiaume Ph.D. (Rutgers Biomedical Engineering) “Improved matrices for dermal regeneration”
• **Platinum Level ($5000).** Your firm will be able to present an exhibit at all events, your company representative will have the opportunity to present a 5-minute talk to the attendees, and your company logo will also be featured prominently in all meeting and event marketing materials. Attendance of up to **FOUR** company representatives at no additional charge for all CDR events held through the membership year. * In addition, special seating at the VIP table during the reception with CDR leadership and speakers of the evening.

• **Gold Level ($2500).** Your firm will be able to present a tabletop exhibit at all events and your company logo will also be featured in all meeting and event marketing materials. Attendance by up to **TWO** company representatives at no additional charge for any CDR event held through the membership year.

• **Silver Level ($1000).** Your firm’s logo will be featured in all meeting and event marketing materials. Attendance by **ONE** company representative at any CDR event held through the membership year at reduced or no cost. *

• **Individual Memberships ($250).** Attendance at any CDR event held through the membership year at reduced or no cost. *
Welcome to our special guests

- Chris Molloy, Ph.D., Dean of Pharmacy
- Kenneth Breslauer, Ph.D., Dean & Vice President, Life & Health Sciences
- Thomas Richardson, Ph.D., Associate Director, Research Alliances (Rutgers)
- Patrick Sinko, Ph.D., Vice President for Research (Rutgers)
Special gratitude goes to:

- Speakers: Drs. Christiano, Rahman & Shah
- John Bushby, Carole Kantor, Milijana Dukovic, Natasha Scheingold, Don Lindorfer & NJCBM Staff
- Dr. Joachim Kohn, Director NJCBM
- Joanne Gere (Bioscience Collaborative) & Dr. Otto Mills
- Dr. Jules Mitchell (Target Health) (event sponsorship)
- NJ CRS Student Chapter (plaques)
- Volunteers from Lab. for Drug Delivery
- Avon for becoming our first Platinum Member
Avon: CDR Platinum Member
Thank You

Contact Natasha Scheingold at cbmfrontdesk@biology.rutgers.edu OR Prof. Michniak-Kohn at michniak@biology.rutgers.edu