

## Curriculum Vitae

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## EDUCATION

*Bachelor of Science (Pharmacy) with Honors*, School of Pharmacy, DeMontfort University, Leicester, England, 1977.

*Doctor of Philosophy (Pharmacology)*, School of Pharmacy, De Montfort University, Leicester, England, 1980. Title: “An Investigation of the Mechanism by which Aluminium and Other Polyvalent Cations inhibit Eccrine Sweating”. Advisor: Prof. Basil Northover, Ph.D.

## Internships and Residencies

Royal Pharmaceutical Society of Great Britain, Internship for Pharmaceutical License, 1980-1981 (M.R. Pharm. S. awarded in 1981).

## Postdoctoral experience

1981-1983 University of Florida, Gainesville, FL College of Pharmacy, Postdoctoral Fellow with Professor Nicholas Bodor (Medicinal Chemistry).

1983-1986 University of Bradford, Bradford, England, Postgraduate School of Studies in Pharmacy, Senior Postdoctoral Fellow with Professor Brian W. Barry (Pharmaceutics and Drug Delivery).

## Licensure

Member of the Royal Pharmaceutical Society of Great Britain. License #73637. February 1981-present.

## APPOINTMENTS

**Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey, Busch Campus, Professor with Tenure in Pharmaceutics, 7/09-present.**

**Director & Founder, Center for Dermal Research (CDR), Rutgers-The State University of New Jersey, 2/11-present.**

B. Michniak-Kohn  
March 2024

Adjunct Associate Professor, New Jersey Medical School, Rutgers-The State University of New Jersey, Dept. of Pharmacology, Physiology & Neuroscience, Newark, NJ. 9/2005-9/2020.

Ernest Mario School of Pharmacy, Rutgers-The State University of New Jersey, Busch Campus, Associate Professor with Tenure in Pharmaceutics, 7/05-7/09.

University of Medicine and Dentistry of New Jersey-NJ Medical School, Associate Professor, Dept. of Physiology and Pharmacology, Newark, NJ, 9/00-7/05.

College of Pharmacy, University of South Carolina, Columbia, SC, Full Professor with tenure in Dept. of Basic Pharmaceutical Sciences-Pharmaceutics, 9/98-9/00.

College of Pharmacy, University of South Carolina, Columbia, SC, Associate Professor with tenure in Dept. of Basic Pharmaceutical Sciences- Pharmaceutics, 9/93-8/98.

College of Pharmacy, University of South Carolina, Columbia, Assistant Professor in Dept. of Basic Pharmaceutical Sciences-Pharmaceutics (tenure-track), 9/87-8/93.

Director, Industrial Membership Program, New Jersey Center for Biomaterials, Rutgers University, 5/02-2/11.

Engineering Research Center (ERC) for Structured Organic Particulate Systems (SOPS), Member of Leadership Committee, FDA Liaison, Project 2.6 and C5 Leader, 9/06-9/16.

UMDNJ-NJ Medical School, Newark, Dept. of Pharmacology & Physiology, Adjunct Associate Professor, 7/2005-7/2015.

College of Pharmacy, Rutgers-The State University of New Jersey, Busch campus, Adjunct Associate Professor, 9/00-6/05.

The Graduate School, Rutgers-The State University of New Jersey, Newark Campus, Adjunct Associate Professor, 9/00-6/05.

Department of Biomedical Engineering, New Jersey Institute of Technology, Newark, NJ, Adjunct Associate Professor, 9/00-6/05.

College of Engineering and Science, Clemson University, Clemson, SC, Adjunct Professor in Bioengineering, 9/98-9/00.

College of Engineering and Science, Clemson University, Clemson, SC, Adjunct Associate Professor in Bioengineering, 9/93-8/98.

College of Engineering and Science, Clemson University, Clemson, SC. Adjunct Assistant Professor, 5/92-8/93.

Medical University of South Carolina, Charleston, SC, Adjunct Professor at College of Pharmacy, Graduate Faculty Member, 9/98-9/00.

Medical University of South Carolina, Charleston, SC, Adjunct Associate Professor at College of Pharmacy, Member of Graduate Faculty at MUSC, 9/93-9/98.

Medical University of South Carolina, Charleston, SC, Adjunct Assistant Professor at College of Pharmacy, Member of Graduate Faculty at MUSC, 9/88-8/93.

### **Other Professional Positions and Major Visiting Appointments**

College of Pharmacy, University of South Carolina, Columbia SC, Visiting Assistant Professor in Basic Pharmaceutical Sciences, 2/86-9/87.

### **Graduate Programs at Rutgers University**

Member, Graduate Program in Pharmaceutical Science, 2000-present.

Member, Graduate Program in Biomedical Engineering, 2004-present.

Member, Professional Science Master's Program, part of School of Graduate Studies New Brunswick, Rutgers Graduate School, Newark and Rutgers Graduate School Camden, 2019- present.

Member, Graduate Program RWJ Graduate School of Biomedical Sciences, 2006-present.

Member, Graduate Program in Chemical and Biochemical Engineering, 2007- present.

Member, Graduate Program in Chemistry and Chemical Biology, 2014-present.

### **Member of Collaborative Interdisciplinary Programs at Rutgers**

Cancer Institute of New Jersey (CINJ).

NIH T32 Postdoctoral Training in Tissue Engineering and Biomaterials Science (2005-2020).

New Jersey Center for Biomaterials-NJCBM (2000-2020).

### **RESEARCH INTERESTS AND EXPERIENCE**

- Optimization of topical, transdermal and transmucosal drug delivery; development of novel permeation models and computational modeling.
- Design and evaluation of novel dermal penetration enhancers and retardants & their structure-activity relationships.
- Design and testing of novel formulations for topical and transdermal drug delivery including creams, emulsions, gels and micro- and nano-carrier systems.
- Physical approaches to enhancing dermal drug delivery: iontophoresis, microneedles as well as formulation optimization.
- Visualization of drug transport pathways in skin using Raman, Fourier Transform Infra-Red spectroscopy, electron and confocal microscopy.
- Investigation of permeability and formulations for drug delivery into nails.
- Development of novel human tissue cultured skin equivalents for permeability testing.
- Computational approaches to predicting skin transport of drugs.
- Drug delivery into the oral cavity: optimization of oral transmucosal (buccal), transgingival and sublingual drug delivery.
- Pharmacokinetics and ADME studies.
- Biorelevant drug release/dissolution testing of pharmaceutical dosage forms.
- Design & development of topical transdermal drug-containing polymer films.

## AWARDS AND HONORS

### Michniak –Kohn Awards:

Awarded the prestigious title of **Doctor Honoris Causa D.Sc. (Honorary Doctor of Science Degree)** by the Poznan University of Medical Sciences, Poznan, Poland July 6<sup>th</sup> 2023.

Elected Fellow of Royal Society of Chemistry (FRSC), October 2023.

Invited as 2021 winner of City of Poznan Public Annual Lecture by Eminent Global Scientist competition. Lecture was entitled “Understanding the Skin to Preserve your Health” at the Polish Library-Congress Center, 37a Przybyszewskiego Street, Poznan, Poland. November 15<sup>th</sup>, 2021.

Elected to The Kosciuszko Foundation Collegium of Eminent Scientists as a Distinguished Fellow of the Collegium for Outstanding Achievements and Contributions to the Polish Scientific Community, February 2015.

Rutgers University Student Employment Office 2012 Supervisor of the Year Award.

Rutgers University ARESTY Research Center for Undergraduates Faculty Research Mentor of the Year Award, April 2011.

Awarded Fellow of the American Association of Pharmaceutical Scientists (FAAPS), July 2008. Awards ceremony at the AAPS annual meeting, Nov. 16<sup>th</sup> 2008 in Atlanta, GA.

Awarded the 2007 Meggers Award from the Society for Applied Spectroscopy for paper entitled “Infrared Kinetic/Structural Studies of Barrier Reformation in Intact Stratum Corneum Following Thermal Perturbation” *Applied Spectroscopy*, 2007, 60 (12), 1399-1404. Co-authors: Pensack, Moore and Mendelsohn.

The Controlled Release Society New Jersey Student Chapter Annual Innovated Controlled Delivery Concept Award has been named after Dr. Bozena B. Michniak-Kohn (awarded for first time in 2008).

Awarded New South Wales (Australia) Cancer Institute’s Premier Award for Outstanding Cancer Research Award 2007 for five-year grant submitted by Khachigian, L. *et al.* entitled “Novel Gene-Targeted Therapies for Basal Cell Carcinoma”. Listed as Associate Investigator I on study.

Received Most Cited Paper Award 2005 in European Journal of Pharmaceutics and Biopharmaceutics for Wang, Y., Thakur, R., Fan, Q., Michniak, B. Transdermal iontophoresis: combination strategies to improve transdermal iontophoretic drug delivery, Vol. 60, Issue 2 (2005), 179-191.

Awarded the Lady Davis Fellowship at the Hebrew University, Jerusalem, Israel, 2000-2001.

Recipient of Researcher of the Year Award 1998, College of Pharmacy, University of SC.

The 1981 Best Publication Prize in the Int. J. Cosm. Sci. for the paper "Studies on the mechanism of topical anhidrosis due to polyvalent cations" 3(1), 29-36. First Author: B. Michniak.

Participant in Pharmaceutical Manufacturers’ Association (P.M.A.) Coordinated Industry Program for Pharmacy Faculty (Burroughs Wellcome, Research Triangle Park, NC) August 1989.

Elected for membership of Sigma Xi, The Scientific Research Society (May 1993).

Honorary member of Golden Key Honor Society.

**Michniak-Kohn Lab. Member Awards since 2011:**

Jailen Doyle, summer undergraduate student won 1<sup>st</sup> place in Chemistry and Chemical Science category for best poster: Doyle, J., Enekebe, C., Matharoo, N., Michniak-Kohn, B. Development and characterization of diclofenac sodium loaded liposomes. Emerging Researchers National Conference in STEM. Washington DC, February 9-11, 2023.

Jailen Doyle, summer undergraduate student on Best Poster Award plus scholarship for graduate school program for best poster: Doyle, J., Enekebe, C., Matharoo, N., Michniak-Kohn, B. Development and characterization of diclofenac sodium loaded liposomes. HBCU Conference, Eli Lilly, Indianapolis, IN. Feb 23-24, 2023.

Michniak-Kohn Ph.D. student Zhang “Julia” Zhang received the 2019 AAPS Best Poster Award for her contribution entitled “Dermal and transdermal delivery of oxicams using deformable liposomes” at the AAPS PharmSci360 annual conference, November 3-6, 2019 in San Antonio, TX.

Michniak-Kohn Ph.D. student Anika Haq Alam received the Rutgers University Pharmaceutical Research Award in 2019.

Michniak-Kohn Ph.D. student Anika Haq Alam received the AAAS member (American Association for the Advancement of Science), AAAS/Science Program, Excellence in Science Award 2018-2019.

Michniak-Kohn Ph.D. student Rose Soskind received the 2018 AAPS Foundation Graduate Student Fellowship- July 2018.

Michniak-Kohn Ph.D. student Rose Soskind awarded travel scholarship to attend the EBICS Engineering Cellular Systems Summer School (co-organized by MIT, Georgia Tech & UIUC), August 6-10, 2018 at University of Illinois at Urbana-Champaign.

Michniak-Kohn Ph.D. student Rose Soskind awarded participation in the 2018 AAAS/Science Program for Excellence in Science.

Michniak-Kohn Ph.D. student Rose Soskind received a travel award to represent Rutgers-The State University of New Jersey School of Graduate Studies at the Jilin-Rutgers Student Forum held at Jilin University, Changchun, China on June 25-26<sup>th</sup>, 2018.

Michniak-Kohn Ph.D student Hongmei “Lisa” Lin received the fourth prize in the Poster Competition at the 71<sup>st</sup> Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.

Michniak-Kohn Pharm.D/Ph.D student Rose Soskind received the third prize in the Poster Competition at the 71<sup>st</sup> Annual Society for Cosmetic Chemists Scientific Meeting and Technology Showcase, December 11-12, 2017, The Westin New York at Times Square.

Michniak-Kohn Pharm.D/Ph.D. student Rose Soskind received the Samuel Bergen, Jr., MD Medal of Excellence Award, May 2017.

Michniak-Kohn Ph.D. student Anika Haq Alam was elected President of the Rutgers University AAPS Student Chapter, 2017.

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