Toxicology of the Skin

The book covers the following important topics:

- stratum corneum (SC) formation and maturation, barrier repair mechanisms, clinical manifestation of disease and topical drug delivery and bioavailability
- emerging epidermal barrier functions for permeability barrier homeostasis, epidermal transporters and skin metabolism, as well as antimicrobial and defense mechanisms
- biomechanics, including keratin remodeling, SC biomechanics and the role of flexion in skin absorption and toxicity
- chemicals associated with skin toxicity and absorption, such as specific cosmetics, irritants, chemical toxicants, drugs, drug delivery methods, and nanoparticles

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**About the Editor:**

Nancy A. Monteiro-Riviere, Ph.D. is a Professor of Investigative Dermatology and Toxicology at the Center for Chemical Toxicology Research and Pharmacokinetics, North Carolina State University (NCSU) as well as a Professor in the Joint Department of Biomedical Engineering at UNC-Chapel Hill/NC State University and Research Adjunct Professor of Dermatology, School of Medicine at UNC Chapel Hill. She received her B.S. in Biology from Stonehill College, M.S. and Ph.D. in Anatomy and Cell Biology from Purdue University and a postdoctoral fellowship in toxicology at CIT in Research Triangle Park, NC. She was past-President of both the Dermal Toxicology and In Vitro Toxicology Specialty Sections of the National Society of Toxicology. Dr. Monteiro-Riviere is a Fellow in The Academy of Toxicological Sciences, and in the American College of Toxicology. She serves as Associate Editor for Wiley Interdisciplinary Reviews in Nanomedicine and Nanobiotechnology and serves on seven toxicology editorial boards. She also serves on several national panels relating to dermal penetration and absorption, including many in nanotoxicology, including the National Academies of Science Research Council to Review the Federal Strategy to Address Environmental, Health, and Safety Research Needs for Engineered Nanoscale Materials. She has published over 225 manuscripts in the field of skin biology and toxicology and is also Co-Editor of the book Nanotoxicology: Characterization and Dosing and Health Effects.

**Essential reading for...**

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