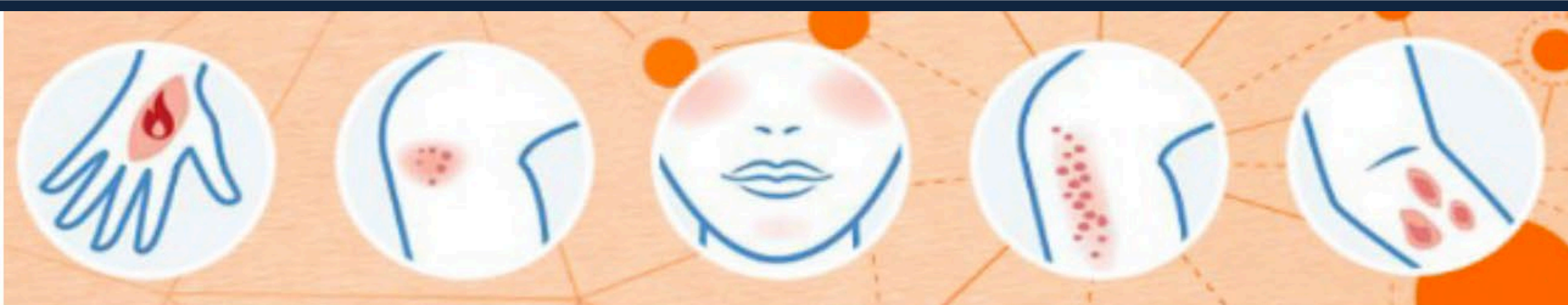


DERMAL TOXICOLOGY SPECIALTY SECTION



What is Dermal Toxicology?

- Skin is the largest and most visible organ of the body; it protects against different types of insults: natural synthetic, biological, chemical, and physical.
- Dermal toxicology is the study of the local and/or systemic adverse reactions resulting from dermal exposure to chemicals. Dermal toxicology also studies the skin penetration of toxicants and evaluates potential systemic exposure.

Examples of Dermatotoxic Materials

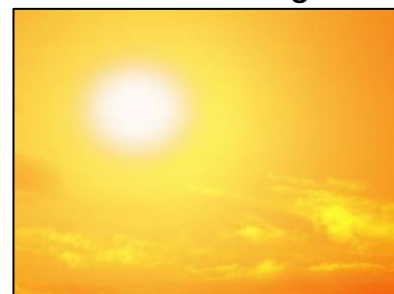
Poisonous Plants



Chemicals



Ultraviolet Light



Occupational Exposure



Cosmetics



Skin Infections



What does a Dermal Toxicologist do?



Basic Research



Pharmaceuticals



Contact Hypersensitivity



Cosmetic Industry



Occupational Exposures and Risk Assessment

Risk assessment based on ADME principles

From topical ointments to transdermal delivery systems

Immunological response to an allergen

Risk assessment for perfumes, after shaves, body lotions, sunscreens

Exposure to chemicals in industry producing chemicals, pesticides, and food

The Dermal Toxicology Specialty Section (DTSS)

The DTSS serves to promote knowledge in the field of dermal toxicology with specific focus on developing clinically relevant models to study **mechanisms and risk assessment for cutaneous exposure to protect against toxicants.**

Members within this Specialty Section conduct research in many diverse areas including **dermal toxicology and pharmacology, risk assessment pharmacokinetics, dermal penetration and absorption, oncology, hypersensitivity, regulatory toxicology and product safety.**

The DTSS meeting/reception is held every year during the SOT Annual Meeting. In order to promote research within the field the Dermal Toxicology Specialty Section offers **student and post-doctoral awards at the SOT Annual Meeting for accepted abstracts as recognition for exceptional research involving skin toxicology and pharmacology.**

Benefits of DTSS Membership

Award Opportunities

Networking with pioneers in academic, industrial, and governmental research organizations

Special Program to Recruit Graduate Student Members

The DTSS is offering a membership program to **6 graduate students for free membership to the specialty section.** If you have a lab colleague who might be interested in becoming a DTSS graduate student member, encourage them to contact Bo Inscho at SOT headquarters.

DTSS Sponsored Sessions

Workshop session

Crucial Role of Physiologically Based Pharmacokinetic Modeling in Human Health Risk Assessment in Different Sectors

Tuesday March 21st (1:00 PM – 2:30 PM)

Karl Dean Ballroom A1

DTSS Reception

March 20th, 6:00-7:30 p.m.

Legends Ballroom G

OFFICERS



President

Sara Farahmand, PharmD, PhD
Principal Toxicologist
Edgewell Personal Care
sara.farahmand@edgewell.com



Vice President

Kimberly Norman, PhD, DABT, ERT
Senior Director, Safety and Regulatory Toxicology
Personal Care Products Council
kimberlygailnorman@gmail.com



Vice President Elect

Sarah Gilpin, PhD
Director Product Safety 3M
sarahsarahgilpin@gmail.com



Secretary-Treasurer

James (Jamie) Coleman, PhD, DABT, ERT
Senior Manager Product Safety Kao USA
jamie.coleman@kao.com



Senior Councilor

Michael D. Southall, PhD
Research Director Pre-Clinical Strategy
Medical and Clinical Sciences at Johnson & Johnson Consumer Health
msoutha@its.jnj.com



Junior Councilor

Prajakta Shimpi, PhD, ERT, DABT
Senior Scientist II
Product Safety L'Oréal
prajakta.shimpi@rd.loreal.com



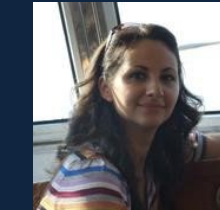
Postdoctoral Representative

Alexandra Nail, PhD
Department of Pharmacology and Toxicology
University of Louisville
alexandra.nail@louisville.edu



Graduate Student Representative

Valeria Cota
University of Iowa
College of Pharmacy
valeria-cota@uiowa.edu



Volunteer

Valentina Galbiati, PhD
Department of Pharmacological and Biomolecular Sciences
University of Milan
valentina.galbiati@unimi.it

Session proposals for 2024

- One way to enhance the visibility of our Specialty Section is to sponsor sessions at the Annual Meeting. Chairing (or co-chairing) a session at the 2024 Annual Meeting is also an excellent way to develop your own career!
- Start making plans to work with your colleagues to submit session proposals. There are number of session types at the Annual Meeting in Salt Lake City, Utah!

@ Contact **Sara Farahmand** or **Sarah Gilpin** for more information

DTSS Student & Postdoctoral Awards

DTSS Papers of the Year Award

In recognition of an **exceptional recent publication in the field of skin toxicology and pharmacology**

Ana Ferragut Cardoso and Mayukh Banerjee

"Temporal Modulation of Differential Alternative Splicing in HaCaT Human Keratinocyte Cell Line Chronically Exposed to Arsenic for up to 28 Wk"

Stratacor Postdoctoral Award

In recognition of a **postdoctoral candidate for their research that advances the understanding of skin toxicology and pharmacology**

Meichen Wang

"Inclusion of Montmorillonite Clays in Environmental Barrier Formulations to Reduce Skin Exposure to Water-Soluble Chemicals from Polluted Water"

Edgewell Personal Care Postdoctoral and Student Awards

In recognition of **outstanding student and postdoc candidates for their contribution to skin-related research**

Omid Madadgar

"Phosgene Oxime Skin Exposure Causes Oxidative Damage to Biomolecules Including Lipids, Proteins, and DNA in Murine Skin Models"

For more information about the DTSS visit our website!

Scan this QR code and follow the link!

