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 toxics 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?

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 toxics.

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 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 Insho 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

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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 WA”

Stratascor 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 “Phagene Oxide Skin Exposure Causes Oxidative Damage to Biomolecules Including Lpidids, Proteins, and DNA in Murine Skin Models”

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 no number of session types at the Annual Meeting in Salt Lake City, Utah!

Contact Sara Farahmand or Sarah Gilpin for more information

For more information about the DTSS visit our website!

Scan this QR code and follow the link!