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.

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 toxicology, pharmacology, risk assessment, pharmacokinetics, dermal penetration and absorption, oncology, hypersensitivity, dermal toxicity, 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

DTSS Sponsored Sessions:

Workshop Session:

- "Applicability Domains and Future of Nonanimal Tests for Skin Sensitization".
  - Monday, March 16th, 8:00-11:45 am in CC Room 204B
  - Chairs: Victor A. Johnson, Borumson Research Technologies, and Marc Pallardy, Université Paris-Sud, France

- "Impacts on Human Health of Sunscreen Active Ingredients Used to Filter Ultraviolet Light".
  - Monday, March 16th, 11:00 am-12:30 pm in CC Room 204B
  - Chairs: Michael F. Hughes, US EPA, and Barry B. McKeever, NIEHS/NIH

Career Exploration through Speed Informational Interviews:

"Exhibit-Hosted Session: The Application of In Vitro GARD Assays for Skin and Respiratory Sensitization Assessment of "Difficult-to-Test"" Tuesday, March 16th, 1:30-4:30 pm, CC Room 204B
Substances: Presented by: Sensata AB

Poster Session:

- Skin and Dermal Toxicity
  - Chair(s): Yoko-Chen Chang, Rutgers, The State University of New Jersey; and Michael Madden, US EPA
  - Monday, March 16th, 3:00-4:30 pm, CC Exhibi Hall (P05 - P06)

- Alternatives to Mammalian Models II
  - Chair(s): Lauren A. Lewis, Texas A&M University; and Michael Madden, US EPA
  - Monday, March 16th, 7:15-9:30 pm, CC Exhibi Hall (P07-P08)

DTSS Reception:

DTSS Annual Meeting Reception

Wednesday, March 16th (6:30-9:00 pm), Anaheim Marriott Platinum 3

What does a Dermal Toxicologist do?

- Basic Research
  - Risk assessment based on ADME principles

- Pharmaceuticals
  - From topical ointments to transdermal delivery systems

- Cosmetic Industry
  - Risk assessment for perfumes, after-shaves, body lotions, sunscreens

- Contact Hypersensitivity
  - Immunological response to an allergen

- Occupational Exposures and Risk Assessment
  - Occupational exposure in various industries producing chemicals, pesticides, and food.