

[Dermal Toxicology Specialty Section]

ANNUAL REPORT: 2019-2020

May 1, 2019 to April 30, 2020

I. Officers/Committees:

<u>Officers</u>	<u>2019-2020</u>	<u>2020-2021</u>
President:	Michael F. Hughes	Neera Tewari-Singh
President-Elect:	Vijayavel Kannappan	Sara Farahmand
Vice President:	Neera Tewari-Singh	Vijayavel Kannappan
Secretary:	Thomas Lewandowski	Yoke-Chen Chang
Treasurer:	Thomas Lewandowski	Yoke-Chen Chang
Past President	Jeffrey A. Klein	Michael F. Hughes
Councilors:	Jeffrey A. Klein	Michael F. Hughes
	Yoke-Chen Chang	Jeffrey Moehlenkamp
	Jeffrey Moehlenkamp	Gabriel Knudsen

PDA Representative: Laila Al-Eryani Ana Ferragut Cardoso

Postdoctoral Representative-Elect: Ana Ferragut Cardoso N/A

Grad Student Representative: Careen Khachatoorian Careen Khachatoorian

II. 2019 Membership total: 139

III. Key Outcomes in 2019-2020:

Activities:

A. 2020 SOT Annual Meeting Virtual Activities (e.g. courses, scientific sessions, or virtual receptions):

DTSS Reception Slides and Poster

Unfortunately, due to the COVID-19 situation, DTSS was unable to meet in person during the 2020 SOT Annual Meeting.

However, Dermal SS sponsored two workshops:

-Monday, March 16, 8:00 AM to 10:45 AM, CC Room 204B Workshop Session: Applicability Domains and Future of Nonanimal Tests for Skin Sensitization Chair(s): Victor J. Johnson, Bureson Research Technologies; and Marc Pallardy, Université Paris-Sud, France. Primary Endorser: Immunotoxicology Specialty Section Other Endorser(s): Dermal Toxicology Specialty Section; In Vitro and Alternative Methods Specialty Section

-Workshop Session: Impacts on Human Health of Sunscreen Active Ingredients Used to Filter Ultraviolet Light Chair(s): Michael F. Hughes, US EPA; and Barry S. McIntyre, NIEHS/NTP. Primary Endorser: Dermal Toxicology Specialty Section Other Endorser(s): Carcinogenesis Specialty Section; Reproductive and Developmental Toxicology Specialty Section

The DTSS leadership decided in honoring the DTSS award recipients and thanking our outgoing officers and welcoming the incoming officers by posting the slides that were planned to be presented at the DTSS

reception as well as the DTSS poster prepared by the student and postdoctoral representatives. The reception slides and poster are posted on the DTSS website.

B. 2020 Awards Information:

- i) DTSS Paper of the Year – Margaret Kraeling et al., *In vitro Skin Penetration of Dendrimer Nanoparticles Applied in Vitro Toxicology 2019, Vol. 5, No. 3, 134-149*
- ii) Stratacor Postdoctoral Award – Ana Ferragut Cardoso. *Alternative Splicing as a Key Mechanism in Arsenic-Induced Squamous Cell Carcinoma: Evidence from RNA-Seq and Proteomic Analysis.*
- iii) DTSS Student Research Award – Bryan Holloman. *Role of Aryl Hydrocarbon Receptor Ligands in Allograft Rejection.*
- iv) DTSS Student and Postdoctoral Fellow Travel Awards –
Rachel Baur (Student). *Alterations in the Mouse Skin and Gut Microbiome and Skin Integrity Following Dermal Exposure to the Antimicrobial Chemical Triclosan.*

Angeliki Lykoudi (student). *Overexpression of hsa-miR-186 induces anchorage-independent growth and chromosomal alterations in arsenic exposed human keratinocytes: A preliminary study.*

Satyendra Singh (postdoc). *Toxicologic pathology and related mechanism following cutaneous exposure of phosgene oxime.*

C. Other Educational Activities Conducted (e.g. webinars, in person meetings, etc.):

DTSS held its first webinar on Monday, January 13, 2020 at 1:00 – 2:00 pm EDT

Webinar: “Best of the Dermal Toxicology Specialty Section: 2019 Scientific Award Winners”

Speaker(s):

- i) Yoke-Chen Chang, PhD; Rutgers University
Title: “Expression of cytokines and chemokines in mouse skin treated with sulfur mustard”
- ii) Xu (Lucia) Liu, PhD; NIH
Title: “Human reconstructed epidermis and vascularized bio-printed skin tissues as tissue-in-a-dish models for drug screening”
- iii) Sarah Dickinson (Phelan); University of Rochester
Title: “The UV filter octinoxate modulates AhR activity via CYP1A1 (and 1B1) inhibition”

D. Communication Activities:

Newsletter publication frequency: DTSS Fall 2019 Newsletter

Key Announcements/blogs:

Website highlights: DTSS 2020 Reception Slides and Poster

E. Mentoring activities:

N/A