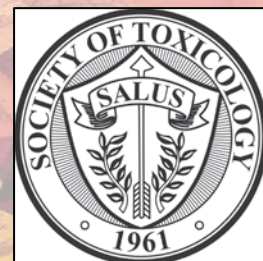


# IMMUNOTOXICOLOGY Specialty Section

Fall Edition



## 2022-2023 Executive Committee

President  
**Berran Yucesoy**

Vice President  
**Marie-Soleil Piche**

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## President's Message

Greetings to the ITSS membership! I hope that everyone has had a nice and relaxing summer and is enjoying the fall season.

As we look forward to the 2023 Annual Meeting, I would like to congratulate our ITSS Program Committee for reviewing, vetting, and ranking the proposals. As usual, we will have a strong immunotoxicology representation with [four exciting proposals](#) (see page 16 for details).

During the last few months of 2022, ITSS will focus on the following activities and opportunities:

- Although the main program session deadline has passed, we still have plenty of time to put poster and platform abstracts together. Please mark your calendars as December 1, 2022, is the deadline for abstract submissions (see page 9).
- It is the time of the year for the recruitment of candidates for the 2023–2024 leadership term and officer elections. We will have four officer positions open: [Vice President-Elect](#), [Junior Councilor](#), [Secretary/Treasurer](#), [Graduate Student Representative](#), and [Postdoc Representative](#). Please consider nominating yourself or your colleagues who are interested in serving the ITSS community. We also welcome anyone interested in getting involved in committee activities. Information about officers' responsibilities and our committees is available on our [website](#). As always, we welcome new faces, diversity, fresh perspectives, and new ideas!
- It is also time to start submitting nominations for the 2023 ITSS Awards. We strongly encourage you to submit the nomination well before the December 1 deadline so that the

nominee will have sufficient time to provide all the necessary information before the deadline. This year, the [Outstanding Senior Immunotoxicologist and Outstanding Young Immunotoxicologist Awards](#) could not be given as there were no nominees. I know that we have many outstanding members who meet the criteria for these awards. Please consider nominating your colleagues for awards to recognize their outstanding commitment to immunotoxicology. We also encourage mentors to work with their students and postdocs on submitting their poster or platform presentations for one of the Best Presentation awards. It is a great way to recognize your students for their hard work and dedication. Awards descriptions and application requirements can be found on the [ITSS website](#) (see also pages 11-17), and any award-related questions can be directed to our Awards Committee chairs, Thea Golden and Amy Sharma.

- An important reminder is that the deadline for ITSS membership renewal is fast approaching. Your membership renewal is what makes our work possible and helps us plan potential upcoming activities. Please remember to renew your membership in early December 2022. We very much appreciate your continued membership and support.
- Although our Specialty Section has a great retention rate, we need your help for sustainable membership growth. Please encourage your colleagues, students, and postdocs to join ITSS and let them know about the opportunities and awards offered through ITSS. Our leadership is happy to answer any questions from potential new members. Membership information can be found on the [ITSS website](#), and any membership-related questions can be directed to our Membership Committee chairs, Thea Golden and Cassandra Houser.
- It is also not too early to start planning for the 2024 meeting. I would like to encourage our members to continue the tradition of submitting strong proposals for the 2024 meeting. While planning future proposals, please remember that our Program Committee is here to help you. As the request for new proposals will come soon after the annual meeting, it would be ideal to have these discussions before the annual meeting to avoid being pressed with a tight deadline. Please reach out to our Program Committee Chair, Marie-Soleil Piche, with your ideas for the 2024 meeting.

I am also pleased to announce the mentoring webinar, which will be held on December 9, 2022. Please check page 6 for further information about this event. Along those lines, we invite you to consider being more involved in mentoring activities, as your support and leadership help build a pipeline of future leaders. If you are interested in becoming a mentor for the forthcoming live mentoring event in Nashville, please get in touch with our Education Committee Chair, Alessandro Venosa.

As always, please do not hesitate to contact me or any other member of the Executive Committee if you have any questions, concerns, or feedback. We appreciate hearing from you.

All the best for the remainder of 2022, and we look forward to seeing you next year in Nashville!

Best Regards,

Dr. Berran Yucesoy  
President, ITSS 2022-2023



# 2023-2024

## ITSS Officer Elections!

It is time to start thinking about officer elections and the recruitment of candidates for the 2023-2024 leadership term!

### Openings for the 2023-2024 ITSS Executive Committee

- Vice President-Elect (4-year term)
- Secretary/Treasurer (2-year term)
- Junior Councilor (2-year term)
- Postdoc Representative (1-year term)
- Graduate Student Representative (2-year term)

\* **November 15, 2022:** Deadline to submit Biosketches to SOT Headquarters

\* **May 1, 2023:** Terms start for newly elected leaders

#### Example Biosketch

*[Full Name, including degrees and affiliations]*

*Dr. [Last Name] is a/the [Current position] at [Place of employment], where he/she/they [Summary of work]. He/She/They received a doctorate in [Field] from [School/University] in [Year] and was a postdoctoral scholar at [Institution] from [Years, i.e. 1995-1998]. Dr. [Last Name] has served on the [Study sections, Panels, etc.] at the [Organization, i.e. NIH, EPA, etc.]. He/She/They is author/co-author of [Number] [Publications including peer-reviewed articles and/or book chapters, etc.]. He/She/They has been a member of the SOT since [Year] and has served the SOT in the following capacities: [Offices/positions held].*

**Please send nominations to Thea Golden @  
goldent@pennmedicine.upenn.edu**

# International Collaborations

## *Report on the 29th Annual Meeting of the Japanese Society of Immunotoxicology (JSIT)*

The Japanese Society of Immunotoxicology (JSIT) was held in Sapporo, Hokkaido on September 12<sup>th</sup> and 13<sup>th</sup>, 2022. The JSIT meeting was also jointly attended by the 79<sup>th</sup> Annual Meeting of the Allergy and Immunotoxicology study group of the Japan Society of Occupational Health. The theme of the meeting was “Immunotoxicity and Diseases” and my special lecture, hosted by Tin-Tin Win-Shwe from the National Institute for Environmental Studies, focused on immunotoxicity that has been linked to exposure to per- and polyfluoroalkyl substances (PFAS). Attending this meeting and interacting with my JSIT colleagues was a wonderful honor and I’m thankful to the ITSS and SOT for supporting this ongoing international collaboration.

I was hosted by the current JSIT president, Professor Hiroyuki Kojima, a Professor at the Health Sciences University of Hokkaido. Professor Kojima was a warm and accommodating host who made me and my partner (who traveled with me) feel like honored guests. While we were not audience members for the bulk of the sessions as they were in Japanese, we did visit posters and attend the award ceremony to see students receive presentation awards. The poster session covered a wide range of topics in immunotoxicology from linkages between endocrine disrupting chemicals and immunotoxicity to neuroinflammation to allergic responses. It was energizing to walk among (while being masked, which is still a requirement in Japan) students and others who were excited to present their research findings in person. I was also able to catch up with Professor Kazuichi Nakamura, a previous JSIT president who has been very active with the ITSS. He is doing well and appears to be healthy and happy! Overall, it appeared as if well over 100 people attended this year’s JSIT and the enthusiasm for an in-person meeting after being limited to virtual was high.

Professor Kojima also arranged for me to be a speaker at a special international seminar at Hokkaido University. Professor Chihiro Miyashita and Professor Atsuko Ikeda from the Hokkaido University Center for Environmental and Health Sciences also presented at this special seminar where they discussed research findings concerning PFAS from their birth cohort study (Hokkaido study). The seminar was well attended by representatives from the University and from several government-level offices and our lectures were highly complementary to one another. Hokkaido University is certainly at the cutting edge of PFAS immunotoxicological research!

I also would like to add that Professor Kojima arranged a special trip around Hokkaido for me and my partner and invited his collaborator, Professor Kubota and one of his graduate students, Wataru Murase, to accompany us. We traveled south from Sapporo to Noboribetsu to visit the mineral baths and then back north along the coastline. We were able to see volcanoes, lakes, Japanese deer and squirrels, and eat local food and drink local beer. Professor Kojima, Professor Kubota, and Wataru arranged and planned all of this as they knew this was our first visit to Japan. Although we used Google Translate a lot, shared interest in immunotoxicology and shared interest in learning about one another overcame language barriers. We have memories that will last us a lifetime and are grateful for this opportunity to engage in a cultural exchange based on immunotoxicological research.

Jamie DeWitt, PhD  
Department of Pharmacology and Toxicology  
East Carolina University



# JOIN US!

## HESI ITC & ITSS Immuno-Safety Mentoring Webinar

Friday, December 9<sup>th</sup>, 2022

**Registration is free- register now!**

<https://register.gotowebinar.com/register/4907903663081657616>

**Webinar Goal:** The aim is to increase awareness about careers in the Immunosafety and Immunopharmacology field, with the target audience of graduate students, postdocs, and fellows. This webinar will allow meaningful Q&A interactions between the audience and speakers to give insight on their respective career pathways. Note, breakout session will approximately be 1:5 mentor/mentee ratio.

### **Mentors:**

- Jorg Blumel, Genentech – Industry
- Courtnei Newsome, BMS – Industry
- Smita Salain-Mehta, Gilead – Industry
- Laurent Malherbe, Lilly – Industry
- Birgit Fogal, Boehringer Ingelheim – Industry
- Nikki Marshall, GSK – Industry
- Tracey Papenfuss, Stagebio – Industry
- John Dubinion, FDA – Regulatory, Public Policy
- Kristina Howard, FDA – Regulatory, Public Policy
- Shermaine Mitchel Ryan, HESI – Non-profit
- Melissa Wilkinson, DOS – Public Policy



# Member Spotlight



## David McMillan, PhD Toxicologist, FDA

### **How did you become interested in immunotoxicology?**

My interest in immunotoxicology started when I was a graduate student in the Toxicology Training Program at the University of Rochester. I was a member of the laboratories of Richard Phipps, PhD, and Patricia Sime, MD, and my research was focused on the anti-inflammatory properties of the NF- $\kappa$ B member, RelB, particularly in the context of cigarette smoke-induced acute lung inflammation. Rick's lab was, at its heart, an immunology lab and he required all of his students who weren't immunology majors to take an immunology course as an elective. And most of his other students and post-docs were also immunologists, so I quickly learned a lot from others and their projects through osmosis. I wasn't actively seeking a career in "immunotoxicology" per se but realized I enjoyed both immunology and toxicology and ended up finding a niche through my combined experiences in both fields.

### **Who or what inspired you to have the career you have today?**

My interest in toxicology started when I was an undergraduate. My parents are close friends with a clinical toxicologist who works in a poison control center in Phoenix, AZ. I considered medical school for a few years in part because I found (and still find) his stories and experiences to be endlessly fascinating. In the end, though, I realized that medical school wasn't for me and that I could pursue a similar career through other means. He and I still keep in touch, though. As a graduate student at the University of Rochester, I actually invited him to give a seminar about rattlesnake envenomation, one of his many areas of expertise. Friends of mine who attended still talk about that seminar to this day.

# Member Spotlight

**What do you like most about working in government? Have you considered other career paths?**

The most fulfilling aspect is that I directly contribute, in my own tiny, humble way, to the betterment of public health. I am a nonclinical reviewer of new drugs at FDA and am assigned to the Division of Antivirals (located within the Office of New Drugs in CDER), so I am responsible for reviewing the nonclinical safety data submitted in support of new drugs for antiviral indications (HIV, influenza, ebolavirus, COVID, etc.). The decisions our group makes are integral to ensuring that new drugs are both safe and effective and reach those who need them as quickly as possible. The work is interesting and challenging and every day is different. I have considered other career options but for now at least, I am proud and grateful to be where I am.

**What is the most exciting thing you are working on right now?**

I can't answer that exactly, but I can say that I am one of a great many at FDA who have contributed to the ongoing COVID-19 pandemic response. Our division has been heavily involved since Day 1 and I've had a front row seat to some of the decision-making. It has certainly been challenging, but it is very exciting and fulfilling and I'm grateful to be a part of it.

**Is there any advice you would like to give ITSS trainees or young investigators to achieve scientific success?**

Networking is everything. You can have the greatest resume with the highest grades and the most exciting project, but if you don't know the right people, you'll have a much harder time. I know from experience how difficult it can be to put yourself out there and meet new people, particularly as a graduate student with no publications or experience, but I promise you it will pay off in the long run. Shake people's hands, look them in the eye, and be honest and humble. Write a good resume, CV and cover letter. Learn how to interview, negotiate salary and otherwise advocate for yourself. And to quote Dr. Anthony Fauci, "be nice to everyone because you never know who your boss will be one day!"

# Member Spotlight



## Fenna Sillè, PhD

Assistant Professor, Deputy Director, Center for Alternatives to Animal Testing (CAAT), Director JHU Exposome Collaborative

Johns Hopkins Bloomberg School of Public Health  
Department of Environmental Health & Engineering

### **How did you become interested in immunotoxicology?**

After my PhD in immunology, I wanted to combine my passion for a healthy planet with my educational background. I realized that environmental health was a good bridge between those two interests. My motto became “Healthy Environment = Healthy People.” It took a bit of a detour to end up in the field of immunotoxicology. I joined Martyn Smith’s group at UC Berkeley as a postdoc as it focused on Genes and Environment. However, at the time I started there was only an opening on the “genes” side of the research projects. When the opportunity came to “step over” to the environmental health projects, his advice was to still stay true to my background in immunology. So, that’s how I became an immunotoxicologist and environmental health scientist.

### **Who or what inspired you to have the career you have today?**

I have always been concerned about our planet and all living species on it. I hope that with my research I can create awareness of how a healthy environment leads to a healthy lives and thereby prompt people to make safe choice for themselves that also are good for the planet.

### **What do you like most about working in government? Have you considered other career paths?**

What I like most about working in academia is the interaction with trainees, professors, staff, all with brilliant ideas and a lot of enthusiasm to do good. Before I decided to become a scientist, as a little kid I always wanted to become a medical doctor, but my curiosity for science and biology took over.

# Member Spotlight

## **What is the most exciting thing you are working on right now?**

The most exciting thing I'm working on right now is to characterize the Baltimore Exposome from a most holistic approach as currently possible, by collaborating with many different scientists combining a full spectrum of exposure assessments as well as omics technologies and artificial intelligence (AI)-driven data analytics.

## **Is there any advice you would like to give ITSS trainees or young investigators to achieve scientific success?**

Find your passion! That is what will get you through all obstacles on your way to scientific success.



62nd Annual Meeting  
& ToxExpo • Nashville, TN  
March 19–23, 2023

**The SOT 2022 Annual Meeting and  
ToxExpo is open for registration and  
housing!**

Early bird registration deadline is  
**January 27<sup>th</sup>, 2023**

Abstract submission deadline is  
**December 1<sup>st</sup>, 2022**



## **SOT 2023 Awards**

SOT offers several awards to recognize distinguished toxicologists at every career level through hundreds of Awards. We encourage you to review each award description closely to discover the nomination and application procedures and apply!

<https://www.toxicology.org/awards/sot/awards.aspx>

# ITSS 2023 Awards and Deadlines



ITSS offers awards for outstanding postdoctoral trainees, graduate students, and junior and senior scientists! Please review each award description and consider submitting a nomination or application. Application deadline is **December 1<sup>st</sup>, 2022**.

## Immunotoxicology SS Best Paper of the Year Award

**Description:** This award is for the best paper in the area of Immunotoxicology, published in ANY peer-reviewed journal between January 1 and December 31 of the current calendar year. The first publication date (either electronic or paper) will be considered the date of publication. Authors may not nominate their own papers. Review papers are not eligible for this award. For full consideration, first author and/or corresponding author will need to be ITSS members. An engraved plaque will be awarded to the authors.

**Requirements:** For submission, please provide a full citation of the article and/or a PDF attachment. In addition, please provide a letter of support discussing the findings and value of the research.

Please submit nomination to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)

## Immunotoxicology SS Best Presentation by a Postdoctoral Trainee Award

**Description:** This award will be presented to the postdoctoral trainees whose work in the field of Immunotoxicology is deserving of recognition. For full consideration, applicants need to be ITSS members (pending applications are also accepted), the original abstract must be submitted to the SOT Annual Meeting, and the nominee plans to attend the meeting, a letter of support from the mentor describing the impact of the work and the role of the postdoctoral trainee in the project. A complete written version (including all graphs and tables) of a presentation to be made at the SOT Annual Meeting. Only presentations representing an expansion of the submitted abstract will be accepted for this award. The reviewers will score quality of the presentation and the content of the text accompanying each slide, describing rationale and significance of the results presented. Please note that submissions of full-size manuscripts will not be accepted. An engraved plaque and cash award (\$500) will be presented to the recipient of this award.

**Requirements:** For submission, please provide a copy of the original abstract submitted to the SOT annual meeting, a mentor's letter of support, and a written version of a presentation (5-7 slides/7' + 3' Q&A) based on submitted abstract

Please submit nomination to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)

# ITSS 2023 Awards and Deadlines



## Immunotoxicology SS Best Presentation by a Student Award

**Description:** This award will be presented to graduate student trainees whose work in the field of Immunotoxicology is deserving of recognition. The reviewers will score quality of the presentation and the content of the text accompanying each slide, describing rationale and significance of the results presented. Please note that submissions of full-size manuscripts will not be accepted. An engraved plaque and cash award (\$500) will be presented to the recipient of this award.

**Requirements:** For full consideration, applicants need to be ITSS members (pending applications are also accepted), the original abstract must be submitted to the SOT Annual Meeting, and the nominee plans to attend the meeting, a letter of support from the mentor describing the impact of the work and the role of the postdoctoral trainee in the project and a complete written version (including all graphs and tables) of a presentation (5-7 slides/7' + 3' Q&A) based on submitted abstract. Only presentations representing an expansion of the submitted abstract will be accepted for this award.

Please submit nomination to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)

## Immunotoxicology Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Award

**Description:** This award is made possible by the Mitzi and Prakash Nagarkatti Research Excellence in Immunotoxicology Award Fund of the SOT Endowment Fund. This cash award will assist graduate students or postdoctoral scholars to attend the SOT Annual Meeting and present their research. Final decisions will be made by the ITSS President, last three ITSS Past Presidents, the Vice President, and Vice President-Elect (chaired by the Vice President). The number of awards will be dependent on outstanding submissions and at the discretion of the Awards Committee and ITSS leadership. An engraved plaque and cash award will be presented to the recipient of this award.

**Requirements:** For submission, applicants need to be ITSS members. Please provide the original abstract submitted to the SOT Annual Meeting, and the nominee plans to attend the meeting, a letter of support from current advisor and/or employer indicating the individual's contributions to Immunotoxicology (or a closely related discipline) and potential future contributions to the discipline, an up-to-date CV, and a letter from the applicant on how attendance at SOT will contribute to their career development in Immunotoxicology.

Please submit nomination to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)

# ITSS 2023 Awards and Deadlines



## Immunotoxicology SS HESI Immunotoxicology Young Investigator Travel Award

**Description:** This award is made possible by the Health and Environmental Science Institute Immunotoxicology Young Investigator Student Award Fund of the SOT Endowment Fund. The nominees should be within five years of receiving a PhD. The cash award will assist young investigators to attend the SOT annual meeting and presenting their research. Both US and international investigators are eligible and encouraged to apply. Selection of the recipient will be made by the President, last three Past Presidents, the Vice President, and Vice President-Elect (Chaired by the President). An engraved plaque and cash award will be presented to the recipient of this award. An individual cannot be the recipient of this award more than once.

**Requirements:** For full consideration the following are required:

- Applicants need not be ITSS members. However, those who are members or who are in the process of becoming members will be given preferential consideration.
- The original abstract submitted to the SOT Annual Meeting, and the nominee plans to attend the meeting. The abstract must be included in the application.
- A letter from current advisor and/or employer indicating the individual's contributions to Immunotoxicology (or a closely related discipline) and potential future contributions to the discipline.
- Up-to-date CV
- A letter from applicant on how attendance at SOT will contribute to their career development in Immunotoxicology.

Please submit applications to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)



# ITSS 2023 Awards and Deadlines



## Immunotoxicology SS Outstanding Senior Immunotoxicologist Award

**Description:** The Outstanding Senior Immunotoxicologist Award is for scientists in academia, industry, or regulatory entities whose work have made significant contributions to the field of Immunotoxicology. Final decisions will be made by the ITSS President, last three ITSS Past Presidents, the Vice President, and Vice President-elect (Chaired by the Vice President).

**Requirements:** The nominee must have *greater than 10 years* experience since obtaining their highest degree. Nominees must have distinguished themselves as leaders in their chosen area of Immunotoxicology and not previously been awarded the Vos Lifetime Career Achievement Award. Self-nominations will not be considered. Nominees need to be SOT and ITSS members for full consideration. The depth, breadth and significance of the scientific contributions of the nominee to advancing the field of Immunotoxicology should be addressed, as well as service to the Immunotoxicology community.

All nominations of candidates that have not received the award will be retained and considered for an additional two years unless the nomination is withdrawn by the sponsor. The nominator will submit a summary of the awardee's accomplishments in the field of Immunotoxicology for the ITSS Newsletter following the SOT Annual Meeting.

For submission, please submit a letter of nomination and an up-to-date CV for the nominee along with a bibliography.

Please submit nominations to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)



# ITSS 2023 Awards and Deadlines



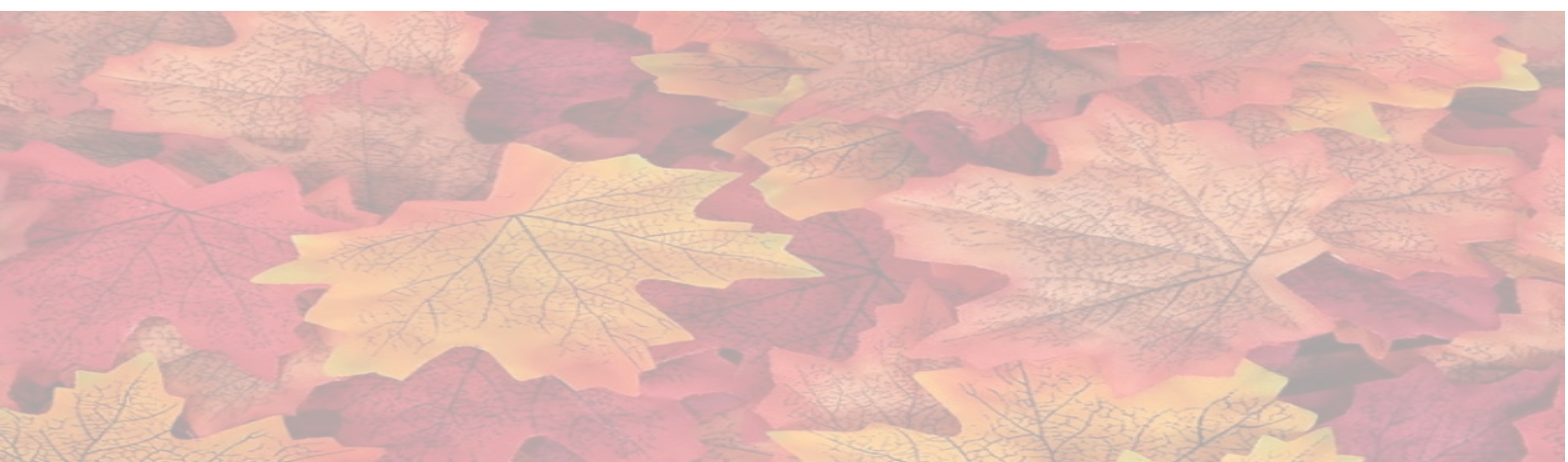
## Immunotoxicology SS Outstanding Young Immunotoxicologist Award

**Description:** This award will be presented to postdoctoral trainees and junior independent scientists in academia, industry, or regulatory entities. Final decisions will be made by the ITSS President, last three ITSS Past Presidents, the ITSS Vice President, and ITSS Vice President-Elect (Chaired by the Vice President). An engraved plaque and cash award will be presented to the recipient of this award.

**Requirements:** For submission, please submit a letter of nomination and up-to-date CV for the nominee along with a bibliography. The nominee must have up to *10 years* of experience since obtaining their highest degree. Exceptions to the 10-year limitation can be made if careers have been interrupted for family or health reasons, or clinical practice, etc. Reasons for the exception should be documented in the nomination letter. Self-nominations will not be considered. Nominees need to be SOT and ITSS members for full consideration (pending applications are also accepted). Nominators are required to document the contributions of the candidate and also provide a curriculum vitae and bibliography. The depth, breadth and significance of the scientific contributions of the nominee to advancing the field of Immunotoxicology should be addressed, as well as service to the Immunotoxicology community.

All nominations of candidates that have not received the award will be retained and considered for an additional two years unless the nomination is withdrawn by the sponsor. Final decisions will be made by the Vice President and members of the Awards Committee (Chaired by the Vice President).

Please submit nominations to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)



# ITSS 2023 Awards and Deadlines



## Immunotoxicology SS Vos Lifetime Career Achievement Award in Immunotoxicology

**Description:** This award will be presented to a Senior Investigator (at least 20 years since obtaining their highest degree) whose body of work represents an outstanding career in Immunotoxicology. Final decisions will be made by the ITSS President, last three ITSS Past Presidents, the ITSS Vice President, and ITSS Vice President-Elect (Chaired by the President). An engraved plaque will be presented to the recipient of this award.

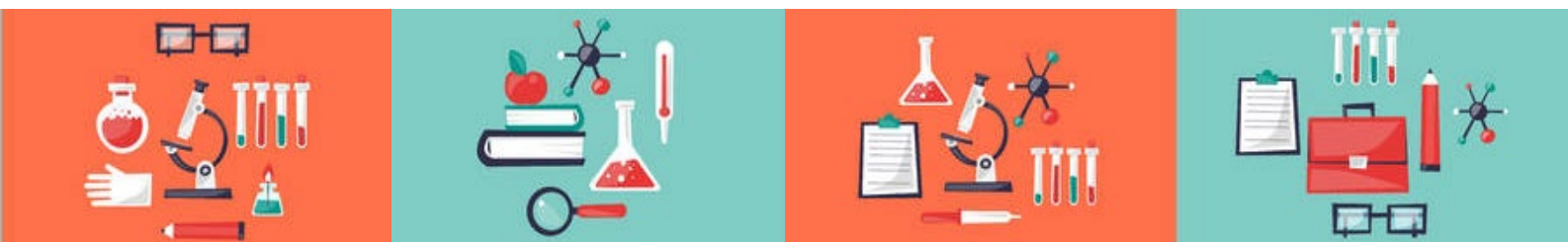
**Requirements:** The nominator should provide a discussion of the role that the individual's work has played in advancing the field of Immunotoxicology. A curriculum vitae and bibliography should also be included. A second letter of recommendation from another investigator in the field would be helpful.

Nominees are evaluated with respect to the following criteria:

- Contribution to the field of Immunotoxicology: depth and breadth of scientific contributions and significance of contributions for advancing the field. (weighted value = 50%)
- Major influence in the education/training/mentorship of young scientists in the field of Immunotoxicology including training in government, industry, or academia (weighted value = 20%)
- Leadership and service to the immunotoxicology field including involvement in the Specialty Section or other meetings/organizations related to Immunotoxicology (weighted value = 20%)
- Influence on regulatory and risk/safety assessment decisions related to Immunotoxicology (weighted value = 10%)

Presentation slides and a brief description of the awardee's career accomplishments in the field of Immunotoxicology will be made by the nominator. Nominations of unselected candidates will be considered for two additional years unless the nomination is withdrawn by the sponsor.

Please submit nominations to Amy Sharma at [amy.sharma@pfizer.com](mailto:amy.sharma@pfizer.com)



# CONTINUING EDUCATION COURSES & SYMPOSIA @ 2023 SOT



❖ **Immunosafety, current considerations and applications in the landscape of immunomodulatory therapies**

Chair: Birgit Fogal and Co-Chair: Shermaine Mitchell-Ryan



❖ **Humanized Mouse Models for Preclinical Evaluation of CART Cells**

*Chair: Michael Oropallo and Co-chair: Marie-Soleil Piche*

❖ **Human Cells as Non-Animal Alternative Approaches for Immunotoxicity Testing**

*Chair: Vic Johnson and Co-Chair: Emanuela Corsini*

❖ **Toxicologic liabilities and translational considerations of anti-sense oligonucleotides and other RNA-centric modalities**

*Chair: Tracey Papenfuss and Co-Chair: Jessica Grieves*

# Call for

*Have a great idea for a symposium but don't know where to start?*

We can help! Reach out to the ITSS Executive Committee to get help bringing your ideas to life, well before the symposia deadline. We can pair you up with a mentor who is familiar with the SOT submission process, who can help you develop your ideas and help you submit the best application possible!

# Program Committee

Marie-Soleil Piche  
Marie-Soleil.Piche@crl.com



## Education Committee

Alessandro Venosa  
Alessandro.venosa@pharm.Utah.edu



*\*SOT membership is required. Must be willing to become a member of the ITSS. Please see the Committees page of the ITSS website for details.*