



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology



Annual Meeting & ToxExpo  
VIRTUAL EVENT • MARCH 2021

Registration ▼

Program ▼

ePubs and App

Exhibits ▼

Supporters

Presenters ▼

Virtual Meeting Details ▼

## Welcome to the 2021 SOT Annual Meeting Website!

Virtual Meeting Benefits

2021 SOT—more than just another Zoom meeting or webinar

### Business meeting

All slides will be available from

[www.toxicology.org/groups/ss/IRSS](http://www.toxicology.org/groups/ss/IRSS)

Wednesday March 17, 2021

4:30 pm till 6:30 pm EST



# **Inhalation and Respiratory Specialty Section**

of the Society of Toxicology

## **SOT Virtual 2021**

### **Agenda**

Wednesday March 17 after 4:30 pm till 6:30 pm EST

- **Welcome (Irfan)**
- **Introduce the executive committee; election results (Irfan)**
- **Secretary / Treasurer's report (Mehdi)**
- **Presentation of Awards (Melanie)**
- **Presentation of Career Achievement Award (Judy)**
- **Education/Outreach Activities (Holger)**
- **SS-CCG activities (Marusia)**
- **Mentoring Activities (Colette or Judy or Amie)**
- **Sponsored Events and Other Business Activities (Matt)**
- **Closing (Irfan)**



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Executive Committee 2020-2021

**President**



**Irfan Rahman**

**Vice President**



**Judy  
Zelikoff**

**VP-elect**



**Melanie  
Doyle-Eisele**

**Sec/Treas**



**Mehdi Saeed  
Hazari**

**Past President**



**Matt Campen**

**Sr Councilor**



**Amie Lund**

**Sr Councilor**



**Christopher  
Reilly**

**Jr Councilor**



**Holger  
Behrsing**

**Jr Councilor**



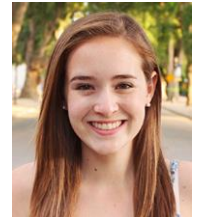
**Marusia  
Popovech**

**Post-doc**



**Colette Miller**

**Grad student**



**Elise  
Hickman**





# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Incoming Executive Committee 2021-2022

**President**



**Judy  
Zelikoff**

**Vice President**



**Melanie  
Doyle-Eisele**

**VP-elect**



**Kym  
Gowdy**

**Sec/Treas**



**Meghan  
Rebulli**

**Past President**



**Irfan  
Rahman**

**Sr Councilor**



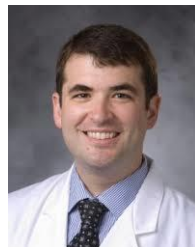
**Holger  
Behrsing**

**Sr Councilor**



**Marusia  
Popovech**

**Jr Councilor**



**Robert  
Tighe**

**Jr Councilor**



**Natalie  
Johnson**

**Post-doc**



**Thivanka  
Muthumalage**

**Grad student**



**Michael  
Yaeger**






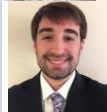


# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Executive Committee Election 2021-2022

Executive committee 2021-2022

Kymberly Gowdy, Ohio State Univ	VP-elect	
Meghan E. Rebuli, PhD, UNC	Treasurer	
Johnson, Natalie M, Texas A&M	Councilor	
Robert M. Tighe, M.D. Duke Univ	Councilor	
Muthumalage, Thivanka University of Rochester	Postdoc Rep	
Michael Yaeger, Ohio State Univ	Student Rep	

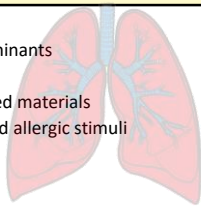
# INHALATION AND RESPIRATORY SPECIALTY SECTION

## Description

The Inhalation and Respiratory Specialty Section provides a focus for members of the Society of Toxicology dealing with the impact of airborne chemicals and particles on the body. The Section meets regularly at the SOT Annual Meeting to promote a better understanding of inhalation and respiratory tract toxicology, to recognize students and colleagues for notable contributions to research, and to address issues of importance to this field. IRSS sponsors webinars and other educational opportunities.

## Issues of Interest

- Indoor and outdoor air pollution
- Occupational exposure to airborne contaminants
- Therapeutic drug delivery by inhalation
- Deposition and pharmacokinetics of inhaled materials
- Interactions between inhaled materials and allergic stimuli
- Airway injury from systemic toxicants
- Systemic injury from airway exposure
- Biomarkers of exposure and disease



## Membership Benefits

- Network with inhalation and respiratory toxicologists from industry, government, and academia.
- Present your work in sponsored and selective specialty sessions.
- Mentoring junior members.

## Reception and Awards Meeting

Wednesday, March 17, 2021

4:30 PM – 6:30 PM EDT

## Virtual Meeting via Webex/Zoom

Please join us to honor our award winners and discuss member involvement.

## Executive Committee 2020-2021/2022



President  
Irfan Rahman



Vice President  
Judy T. Zelickoff



Vice President-Elect  
Melanie Doyle-Eisele



Secretary/Treasurer  
Medhi S. Hazari



Past President  
Matthew J. Carrigan



Councillor  
Amie K. Lund



Councillor  
Marusia Popovici



Councillor  
Christopher A. Rely



Postdoctoral  
Rep  
Corinne Miller



Grad  
Student Rep  
Elise

Kymberly Gowdy, PhD, Ohio State Univ	VP-Elect
Meghan E. Rebut, PhD, UNC	Treasurer
Johnson, Natalie M, PhD, Texas A&M	Councillor
Robert M. Tighe, M.D. Duke Univ	Councillor
Thivanka Muthumalage, PhD, University of Rochester	Postdoc Rep
Michael Yaeger, Ohio State Univ	Student Rep

## Sponsored Events at SOT Virtual Meeting

- "From Inhaled Particles to Neurodegeneration and Toxicity: Evidence from Studies in Volunteers, Experimental Animals, and Cell-Based Systems" (3/16/2021 at 11:15 AM EST)
- "It Is Not Just Air: Exposure to Indoor Air Pollution, Diagnostic Tools, and Evaluation of Health Effects" (3/17/2021 at 11:30 AM EST)

### Workshops:

- "Standardization of In Vitro Inhalation Exposure for Regulatory Acceptance" (3/15/2021 at 11:15 AM EST)
- "Precision-Cut Lung Slices: A Versatile Tool for Pulmonary Toxicology" (3/16/2021 at 11:15 AM EST)
- "New Approaches for the Identification and Evaluation of Chemical Respiratory Sensitizers" (3/22/2021 at 11:15 AM EST)

### Continuing Education:

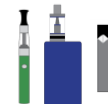
- "Establishing Confidence in Organ-on-a-Chip Systems for Toxicity Testing: Lung-on-a-Chip as an Example" (3/26/2021 at 11:00 AM EST)

## IRSS 2021 Award Winners



# Inhalation Toxicology Through the Ages

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# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Secretary/Treasurer's Report

***IRSS Membership (as of Dec 2020): 351***

***Finances (as of Dec 2020)***

- General Assets - \$12,966 (up \$4,675 compared to 2019)
- IRSS Business Meeting/Reception
  - Approved Funding from SOT council - \$ (Not available yet)
  - Estimated sponsorships/scholarships - \$ (SOT)
  - Estimated Expenses - \$ (Not available yet)
- Donald Gardner Endowment - \$63,261 (down \$1,454)
- Mary Amdur Fund - \$110,102 (down \$411)



Thanks

Retreat: May 21, 2:30 PM – 4:00 PM  
Award Ceremony (Judith Zelikoff, PhD, VP)  
**Congratulations to the 2020 IRSS Award Winners!**





# Inhalation and Respiratory Specialty Section of the Society of Toxicology



**Awards  
Several  
competitive  
applications  
received**

**Paper of the Year Award:**

**Postdoctoral Award:**

**Mary Amdur Student Award:**

**Student Award:**

**Career Achievement Award:**

**Donald E. Gardner Inhalation Toxicology Education Award:**

**Young Investigator Award:**



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Paper of the Year Award



Samantha Snow, et. al.

[www.nature.com/scientificreports](https://www.nature.com/scientificreports)

**SCIENTIFIC  
REPORTS**

nature research



OPEN

**Offspring susceptibility  
to metabolic alterations due  
to maternal high-fat diet  
and the impact of inhaled ozone  
used as a stressor**

Samantha J. Snow<sup>1,4</sup>, Katarzyna Broniowska<sup>2</sup>, Edward D. Karoly<sup>2</sup>, Andres R. Henriquez<sup>3</sup>,  
Pamela M. Phillips<sup>1</sup>, Allen D. Ledbetter<sup>1</sup>, Mette C. Schladweiler<sup>1</sup>, Colette N. Miller<sup>3</sup>,  
Christopher J. Gordon<sup>1</sup> & Urmila P. Kodavanti<sup>1</sup>



# Inhalation and Respiratory Specialty Section

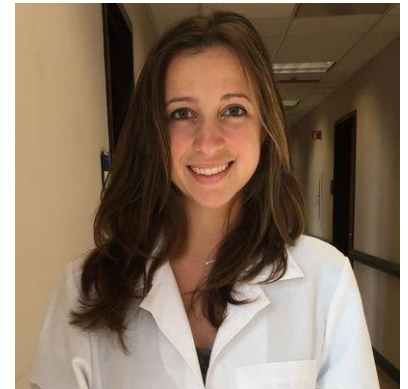
of the Society of Toxicology

## Mary Amdur Student Award

**Eva Vitucci**

University of North Carolina, Chapel Hill

Mentor: *Shaun D. McCullough*



**Identifying the Molecular Mechanisms  
of Air Pollution-Induced  
Cardiovascular Disease**







# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## IRSS Student Award

**Carmen Lau**

Texas A&M University



*Mentors:* Natalie M. Johnson (School of Public Health)  
and Dr. Aline Rodrigues Hoffman (College of  
Veterinary Medicine)

**In utero ultrafine particulate matter exposure leads  
to enhanced murine neonatal RSV infection severity**



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## IRSS Postdoctoral Award

**Gagandeep Kaur**

University of Rochester

Mentor: Irfan Rahman



**Dysregulated ACE2 Activity and Cytokine  
Profile amongst Smokers Could Increase  
Susceptibility towards SARS-CoV2**



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology



## Donald E. Gardner Inhalation Toxicology Education Award

**Keith Rogers**

University of NC – Chapel Hill



**Goal:** To introduce the science of inhalation toxicology to underrepresented students at historically black colleges or universities by creating the “New Respiratory Toxicology Coach Series”

**Mentor:** *Ilona Jaspers*





# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Young Investigator Award

**Meghan Rebuli**

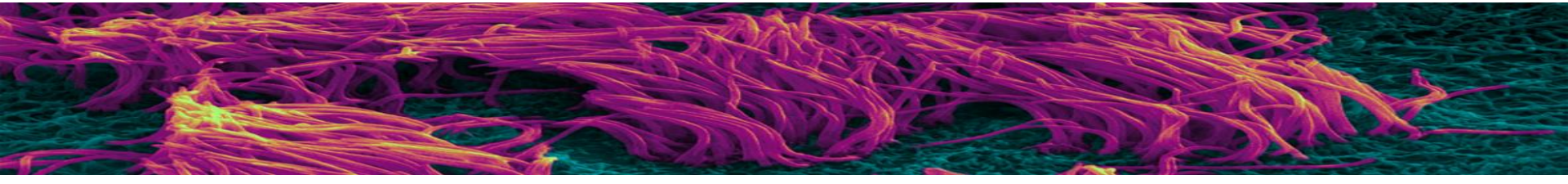
Assistant Professor

Center for Environmental Health & Susceptibility  
University of North Carolina – Chapel Hill



### **Research focus:**

Evaluating sex differences in respiratory  
toxicology





# Inhalation and Respiratory Specialty Section

of the Society of Toxicology

## Career Achievement Award

**John Morris**

Retired

University of Connecticut



**John B. Morris, Ph.D.**

**Board of Trustees Distinguished Professor Emeritus**

**University of Connecticut**

**Society of Toxicology President 2016-2017**

**T: +1 (860) 402-1778**

**E: [john.morris@uconn.edu](mailto:john.morris@uconn.edu)**



# Inhalation and Respiratory Specialty Section of the Society of Toxicology



## Awards: Winners

**Paper of the Year Award:** Samantha Snow, US EPA

**Postdoctoral Award:** Gagandeep Kaur, University of Rochester

**Mary Amdur Student Award:** Eva Vitucci

**Student Award:** Carmen Lau, Texas A&M University

**Career Achievement Award:** John Morris, University of Connecticut

**Donald E. Gardner Inhalation Toxicology Education Award:**  
Keith Rogers, University of North Carolina

**Young Investigator Award:** Meghan Rebuli,  
University of North Carolina





SOT 2021 Program Webinars hosted by IRSS Members: Thank you to all  
<https://www.toxicology.org/events/am/AM2021/program-overview.asp>

**Symposia:** **Sponsored Events at SOT Virtual Meeting 2021**

- “From Inhaled Particles to Neurodegeneration and Toxicity: Evidence from Studies in Volunteers, Experimental Animals, and Cell-Based Systems” (3/16/2021 at 11:15 AM EST)
- “It Is Not Just Air: Exposure to Indoor Air Pollution, Diagnostic Tools, and Evaluation of Health Effects” (3/17/2021 at 11:30 AM EST)

**Workshops:**

- “Standardization of In Vitro Inhalation Exposure for Regulatory Acceptance” (3/15/2021 at 11:15 AM EST)
- “Precision-Cut Lung Slices: A Versatile Tool for Pulmonary Toxicology” (3/16/2021 at 11:15 AM EST)
- “New Approaches for the Identification and Evaluation of Chemical Respiratory Sensitizers” (3/22/2021 at 11:15 AM EST)

**Continuing Education:**

- “Establishing Confidence in Organ-on-a-Chip Systems for Toxicity Testing: Lung-on-a-Chip as an Example” (3/26/2021 at 11:00 AM EST)



# Inhalation and Respiratory Specialty Section

of the Society of Toxicology



## Webinars

**For nominations and suggestions-**

**Please contact:**

**Holger P. Behrsing, Ph.D.**

Director – Respiratory Toxicology

Office: 301-963-4946

[hbehrsing@iivs.org](mailto:hbehrsing@iivs.org)



## Webinar Series 2020-2021

### “COVID-19: Impact of Inhalation Based Exposures on Respiratory System”

Wednesday, August 5, 2020 at 1:00 – 2:00 PM EDT.



**Gagandeep Kaur, Ph.D.**  
Postdoctoral Associate, University  
of Rochester Medical Center



**Robert Foronjy, M.D.**  
Chief, Pulmonary and Critical Care  
Medicine SUNY Downstate Medical Center

#### Moderators:

- **Irfan Rahman, Ph.D.**, Professor, University of Rochester, Rochester, NY
- **Judith Zelikoff, Ph.D.**, Professor, New York University School of Medicine
- **Holger Behrsing, Ph.D.**, Principal Scientist & Head: Respiratory Toxicology Program, IIVS, Inc.





## Webinar Series 2020-2021

**“A respiratory look into COVID-19 pediatric health and adolescent health risks of behavior”**

Wednesday, November 18, 2020 at 2:00 – 3:00 PM EDT.



**Ilona Jaspers, Ph.D.**

Professor, Depts. of Pediatrics, Microbiology &  
Immunology, and Environmental Sciences and Engineering  
University of North Carolina at Chapel Hill



**Matthew McGraw, M.D.**

Assistant Professor - Department of  
Pediatrics, Pulmonology (SMD)  
University of Rochester Medical Center

### **Moderators:**

- **Irfan Rahman, Ph.D.**, Professor, University of Rochester, Rochester, NY
- **Judith Zelikoff, Ph.D.**, Professor, New York University School of Medicine
- **Holger Behrsing, Ph.D.**, Principal Scientist & Head: Respiratory Toxicology Program, IIVS, Inc.



## Webinar Series 2020-2021

### “Microplastics and pulmonary risk:

### Environmental prevalence, exposure and mechanisms of pulmonary action”

Tuesday, April 13th, 2021 at 2:00 – 3:00 PM EDT.



**James McGrath, Ph.D.**

Professor of Biomedical Engineering  
University of Rochester



**Eliseo Castillo, Ph.D.**

Assistant Professor, Department of Internal Medicine  
University of New Mexico Health Sciences Center

### Moderators:

- **Irfan Rahman, Ph.D.**, Professor, University of Rochester, Rochester, NY
- **Judith Zelikoff, Ph.D.**, Professor, New York University School of Medicine
- **Holger Behrsing, Ph.D.**, Director & Head: Respiratory Toxicology Program, IIVS, Inc.



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## Member Highlights

### **Communication Activities –**

**Marusia Popovech, PhD** (IRSS councilor) is now a member of Specialty Section-Collaboration and Communication Group (SS-CCG) on Ethical, Legal, Forensics, and Societal Issues for 2019-2021.

Congratulations to **Amie Lund, PhD** (our IRSS councilor) who is recognized as

- Lone Star Society of Toxicology (LSSOT) Regional Chapter- President (2020-2021)
- SOT Regional Chapter Communication and Collaboration Committee (RC4) - co-Chair (2020-2021)
- LSSOT - FUTURE Liaison (2020-2021)





# Specialty Section-Collaboration and Communication Group (SS-CCG)

Mission: Facilitate the exchange of ideas across Specialty Sections

Seeking Input:

- Co-sponsored events (webinars, etc.)
- Best Practices



# Inhalation and Respiratory Specialty Section

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## Forthcoming Meetings

The **23<sup>rd</sup> Congress of the International Society for Aerosols in Medicine (ISAM)** will be held in **Boise, Idaho** from **22<sup>nd</sup> to 26<sup>th</sup> May 2021**.

<https://www.isam.org/website/2021%20Congress/congress>

The International Society for Aerosols in Medicine (ISAM)  
office@ISAM.org

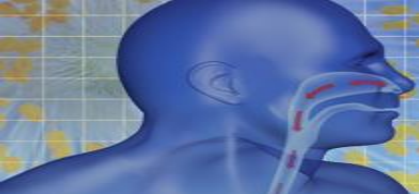
Call for Proposals for the International Congress of Toxicology 2022 Scientific Program  
Maastricht, **September 18-22, 2022**.

The International Congress of Toxicology is a joined meeting **of IUTOX and EUROTOX** ([www.ict2022.com](http://www.ict2022.com)). The theme of the 2022 ICT ***“Uniting in Toxicology”***, reflects our desire to address topics dealing with different disciplines. Submit your scientific proposals via the [submission platform](#) making sure to include the organiser details, the recommended speakers, and a brief presentation for the proposal.

[https://www.eventclass.org/contxt\\_ict2022/welcome/index](https://www.eventclass.org/contxt_ict2022/welcome/index)

The 10th International Conference on Nanotoxicology (virtual program) is just around the corner. Registration is open, and the conference runs from **April 20-22**. The program is available online. There are **212** presentations consisting of, **7** Keynotes, **86** Abstract Oral Presentations, and **119** Poster Presentations with presenters from over **28** countries.

Further information on this conference can be found in the attached flyer link or at [10th International Conference on Nanotoxicology \(nanotox2021.org\)](http://10th International Conference on Nanotoxicology (nanotox2021.org))



# Inhalation and Respiratory Specialty Section

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Dear members,  
We would like to acknowledge and thank all of our Executive Committee and IRSS members for their contributions

## Awards Committee:

Judith Zelikoff, PhD (Chair)  
[Judith.Zelikoff@nyulangone.org](mailto:Judith.Zelikoff@nyulangone.org)  
All EC members

## Education, Outreach, Endowment and Webinar Committee:

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**Thank you for your involvement and commitment.**  
**Please be a part of our endeavors, and contact us for**  
**feedback and involvement!**



# Inhalation and Respiratory Specialty Section of the Society of Toxicology



All slides will be available from  
[www.toxicology.org/groups/ss/IRSS](http://www.toxicology.org/groups/ss/IRSS)  
Spring Newsletter soon!

