

Jacob S. Siracusa, Ph.D.
Toxicologist

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Academic and Professional Profile

Dr. Jacob Siracusa is a consultant focusing on toxicology, exposure assessment, industrial hygiene and risk characterization. His current interests are perfluorinated compounds and other environmental toxicants. He currently works under the guidance of Dr.'s Dennis Paustenbach and David Brew. With his Ph.D from the University of Georgia, Jacob uses his toxicology and environmental health backgrounds as well as technical knowledge to summarize experimental studies and effectively solve problems. His interest in consulting, as well as environmental health and human health is driven by his passion to enhance current and future generation's quality of life.

Education and Degrees Earned

- Ph.D. in Toxicology, Department of Biomedical Sciences, University of Georgia, Athens, 2023
- Bachelor of Science in Environmental Health Sciences, University of Georgia, Athens, 2017

Certifications

- HAZWOPER, Athens, GA 2016

Professional Honors/Awards

- First Place Poster Presentation at UGA Interdisciplinary Toxicology Program Spring Workshop (2018)
- Second Place Poster Presentation at UGA Interdisciplinary Toxicology Program Spring Workshop (2022)
- First Place Platform Presentation at UGA Interdisciplinary Toxicology Program Spring Workshop (2023)
- Nominated Secretary and Treasurer for the UGA Interdisciplinary Toxicology Program Student Body

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- Gwinnett County Soccer First Team All-County Member
- Peachtree Ridge High School Relay for Life Team Captain 2nd Largest Fundraising Team in County

Membership and Service to Professional Societies

- Society of Toxicology (member)

Grants Awarded

2021: Received UGA Summer Research Grant to provide funding to conduct fecal microbiota analysis for dissertation experiments examining the effects of PFOS and PFBA on Metabolic and Immunological Functions Associated with the Fecal Microbiota in Mice fed a Western Diet.

2022: Received UGA Summer Research Grant to provide funding to conduct fecal microbiota analysis for dissertation experiments examining the effects of PFOS and PFBA on Metabolic and Immunological Functions Associated with the Fecal Microbiota in Mice fed a Western Diet.

Experience Summary

Paustenbach and Associates

Toxicologist

Jackson Hole, Wyoming

February 2024 - Present

- Consultant in toxicology, industrial hygiene, exposure assessment and risk characterization.
- Currently focused on per-and-polyfluoroalkyl substances (PFAS) and a variety of other environmental toxicants.

PUBLICATIONS

Peer-Reviewed Publications

1. **Siracusa, Jacob S.**, Yin, Lei, Measel, Emily, Liang Shenxuan, & Yu, Xiaozhong (2018). Effects of Bisphenol A and its Analogs on Reproductive Health: A Mini Review. *Reproductive Toxicology*. 79. 10.1016/j.reprotox.2018.06.005.
2. Yin, Lei, **Steven Siracusa, Jacob S.**, Measel, Emily, Guan, Xueling, Edenfield, Clayton, Liang, Shenxuan & Yu, Xiaozhong. (2019). High-Content Image-Based Single Cell Phenotypic Analysis for the Testicular Toxicity Prediction Induced by Bisphenol A and its Analogs Bisphenol S, Bisphenol AF, and Tetrabromobisphenol A in a Three-Dimensional Testicular Cell Co-culture model. *Toxicological sciences : an official journal of the Society of Toxicology*. 173. 10.1093/toxsci/kfz233.

Book Chapters

1. Edenfield, Clayton & **Siracusa, Jacob S.** & Wang, Ruoning & Yu, Xiaozhong. (2021). Chapter 1- Human iPSCs and their uses in developmental toxicology. Editor: Alexander Birbrair, In *Advances in Stem Cell Biology, iPSCs from Diverse Species*. Pages 1-44. <https://doi.org/10.1016/B978-0-12-822228-7.00012-6>.

Presentations at Scientific Conferences

1. 2018 (Spring). Machine Learning-based High-Content Analysis to Characterize Phenotypic Assessment of the Reproductive Toxicity of Bisphenol A, Bisphenol S, Bisphenol AF, and Tetrabromobisphenol A in a Testicular Cell Co-Culture Model Associated with the Toxicity of Bisphenols. UGA Environmental Health Science Research Showcase. Spring 2018. Athens, Georgia.
2. 2018 (March). Machine Learning-based High-Content Analysis to Characterize Phenotypic Assessment of the Reproductive Toxicity of Bisphenol A, Bisphenol S, Bisphenol AF, and Tetrabromobisphenol A in a Testicular Cell Co-Culture Model Associated with the Toxicity of Bisphenols. Society of Toxicology. March 2018. San Antonio, Texas.
3. 2018 (April). Machine Learning-based High-Content Analysis to Characterize Phenotypic Assessment of the Reproductive Toxicity of Bisphenol A, Bisphenol S, Bisphenol AF, and Tetrabromobisphenol A in a Testicular Cell Co-Culture Model Associated with the Toxicity of Bisphenols. UGA Interdisciplinary Toxicology Program. April 2018. Athens, Georgia.
4. 2019 (March). Reproductive Toxicity of Eight Per-and Polyfluoroalkyl Substances in Murine C18-4 Spermatogonial Cells. Society of Toxicology. March 2019. Baltimore, Maryland.
5. 2019 (March). Reproductive Toxicity of Eight Per-and Polyfluoroalkyl Substances in Murine C18-4 Spermatogonial Cells. UGA Environmental Health Science Research Showcase. March 2019. Athens, Georgia.
6. 2021 (March). Functional Comparison of Dietary Early Glycation Products Produced Through Spray-Drying and Freeze-Drying Methods. Society of Toxicology (Virtual). March 2021. Athens, Georgia.
7. 2021 (April). Functional Comparison of Dietary Early Glycation Products Produced Through Spray-Drying and Freeze-Drying Methods. UGA ITP Spring Workshop. April 2021. Athens, Georgia.
8. 2021 (October). The Association Between Perfluorooctane Sulfonic Acid-Induced Metabolic Alterations and Non-alcoholic Fatty Liver disease. Southeastern Society of Toxicology Meeting. October 2021. Athens, Georgia.
9. 2022 (March). The Association Between Perfluorooctane Sulfonic Acid-Induced Metabolic Alterations and Non-alcoholic Fatty Liver disease. Society of Toxicology. March 2022. San Deigo, California.
10. 2022 (April). The Association Between Perfluorooctane Sulfonic Acid-Induced Metabolic Alterations and Non-Alcoholic Fatty Liver Disease. UGA ITP Spring Workshop. April 2022. Athens, Georgia.