

**Abigail F. Scott**  
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**Education**

<b><u>Years</u></b>	<b><u>Degree</u></b>	<b><u>Institution (Area of Study)</u></b>	<b><u>GPA</u></b>
2020-Present	PhD in progress	University of Utah, Medicinal Chemistry	3.88
2014-2018	BS	Westminster College, Neuroscience	3.75

**Research Experience**

2020-Present	Graduate Research Assistant, Dr. Jaelyn Winter, University of Utah, Salt Lake City, UT
2017-2019	Lab Technician, Dr. Christopher Reilly, University of Utah, Salt Lake City, UT
2017	Undergraduate Research Assistant, Dr. Eric Schmidt, University of Utah, Salt Lake City, UT
2016-2017	Undergraduate Research Assistant, Dr. Frank Black, Westminster College, Salt Lake City, UT

**Teaching Experience**

2021	Teaching Assistant for CHEM 6450 Biophysical Chemistry, University of Utah
2019-2020	Medical College Admissions Test (MCAT) Tutor, Altius Test Prep, Salt Lake City, UT
2016-2018	Teaching Assistant for Organic Chemistry, Westminster College
2016-2017	Teaching Assistant for The Science of Food and Drink, Westminster College
2015	Counselor at Camp Outdoor Education Laboratory, Kansas City, Kansas
2014-2015	Math and Music Teacher, ArtsBridge Program, Westminster College, Salt Lake City, UT

**Funding and Awards**

2018	Westminster Honors College Travel Award
2017	Associated Students of Westminster College Opportunity Fund Travel Award
2017	Westminster College Arts & Sciences Undergraduate Research Student-Faculty Travel Grant
2016	Utah Department of Forestry, Fire, and State Lands Summer Research Stipend

**Publications**

Wright J, Yang S, Johnson WP, Black FJ, McVey J, Epler A, **Scott AF**, Trentman MP, Martin AR, Pandey G, Piskadlo AM. Temporal correspondence of selenium and mercury, among brine shrimp and water in Great Salt Lake, Utah, USA. *Science of The Total Environment*. 2020 Dec 20;749:141273.

**Scott AF**, Black FJ. Mercury bioaccumulation and biomagnification in Great Salt Lake ecosystems. *In Great Salt Lake Biology* 2020 (pp. 435-461). Springer, Cham.

Nguyen ND, Memon TA, Burrell KL, Almestica-Roberts M, Rapp E, Sun L, **Scott AF**, Rower JE, Deering-Rice CE, Reilly CA. Transient Receptor Potential Ankyrin-1 and Vanilloid-3 Differentially Regulate Endoplasmic Reticulum Stress and Cytotoxicity in Human Lung Epithelial Cells After Pneumotoxic Wood Smoke Particle Exposure. *Molecular Pharmacology*. 2020 Nov 1;98(5):586-97.

**Scott AF**, Reilly CA. Wood and biomass smoke: addressing human health risks and exposures. Chemical research in toxicology. 2019 Feb 5;32(2):219-21.

Memon TA, Nguyen ND, Burrell KL, **Scott AF**, Almestica-Roberts M, Rapp E, Deering-Rice CE, Reilly CA. Wood smoke particles stimulate MUC5AC overproduction by human bronchial epithelial cells through TRPA1 and EGFR signaling. Toxicological Sciences. 2020 Apr 1;174(2):278-90.

Pacanowsky M, Arsht SS, Mackey A, Baxter BK, Banks L, Henage RT, Ingle P, Manship J, Martin A, McGovern JM, **Scott A**. Employee voice: Foundation to the scaffolding of CHG Healthcare's culture journey. Organizational Dynamics. 2019 Jan 1;48(1):16-27.

## **Presentations**

### **Oral Presentations**

“Mercury Bioaccumulation and Biomagnification in Great Salt Lake Ecosystems”

- International Conference for Salt Lake Research, Oct. 18, 2021, Zoom via Murcia, Spain
- Salty Science Series, Dec. 11, 2020, Zoom

### **Poster Presentations**

“Discovery of TRP Channel Agonists in Pneumotoxic Biomass Smoke Particulate Materials”, Mountain West Society of Toxicology Annual Meeting, Sept. 2018, Phoenix, AZ

“TRP channel agonists in air pollutants: possible molecular mediators of pathogenesis for environmentally sensitive respiratory diseases”, American Chemical Society National Conference, March 2018, New Orleans, LA

“Optimizing Peptides for Use as Drug Analogs”, University of Utah SPUR Symposium, August 2017, Salt Lake City, UT

“Evaluating Potential Trace Element Toxicity for Birds of the Great Salt Lake”

- Mountain West Society of Toxicology Annual Meeting, September 2016, Salt Lake City, UT
- Utah Conference for Undergraduate Research, February 2017, Logan, UT
- Association of the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, March 2017, Honolulu, HI

## **Professional Memberships**

2022-present Associated Sciences of Pharmacognosy

2021-present International Society for Salt Lake Research

2018-2019 American Chemical Society

2017-2018 Associated Sciences of Limnology and Oceanography

## **Service and Volunteering**

2021 – Present Co-Founder Westminster College Science Alumni Affinity Group

2019 – Present University of Utah Hospital No One Dies Alone (NODA) Program Volunteer

2016 – Present Great Salt Lake Institute Volunteer

## **Certifications**

PADI (Professional Association of Diving Instructors) Rescue Diver SCUBA Certification