Sarah Berlinski
Exposure Scientist

Paustenbach and Associates
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Academic & Professional Profile

Sarah Berlinski is an Exposure Scientist and consultant with Paustenbach and Associates. Where she is focused on occupational health, industrial hygiene, and risk assessment. Specialized areas of interest include dermal toxicology, microbial contamination, per- and polyfluoroalkyl substances (PFAS), asbestos, and consumer product exposures. With an undergraduate degree in Health and Societies, Disease and Society from the University of Pennsylvania and experience in biomedical research settings, she is committed to advancing scientific knowledge.

Education and Degrees Earned

- Bachelor of Arts in Health and Societies, Disease and Society and Minor in Hispanic Studies
    - University of Pennsylvania, *summa cum laude*

Experience Summary

Paustenbach and Associates
Exposure Scientist
Jackson Hole, Wyoming Office
June 2024 – Present

- Consultant in toxicology, occupational health, industrial hygiene, risk assessment, state-of-the-art, and safety.
- Special interest in dermal toxicology, per- and polyfluoroalkyl substances (PFAS), benzenes, asbestos, and consumer product exposures (food and beverages)
- Involved in litigation work, interpreting toxicological studies, characterizing risks posed by chemicals in the environment, and contributing to ongoing research and the writing of manuscripts

Paustenbach and Associates
Scientific and Operations Associate
Jackson Hole, Wyoming Office
January 2024 – June 2024

- Previously responsible for business development, literature reviews, Asana project management, PowerPoint presentations recruiting/onboarding, daily office operations, and technical report writing

NAMSA
Associate Microbiologist
Jackson Hole, Wyoming
September 2022-January 2023

- Developed protocols for custom in vitro and ex vivo microbiological testing on new and emerging biomedical products
- Previously responsible for experimental design and implementation, data analysis, and written reports and presentations to clients

Teton Science Schools
Environmental Science Instructor
Jackson Hole, Wyoming
February 2021-November 2022

- Implemented place-based education and research practices to teach geology, glaciology, ecology, and river morphology curricula
- Devised lesson plans for grades 4-12 as well as undergraduate students and adult learners

Key Projects (Partial List)

Biofilm Studies for Experimental Therapeutics| NAMSA, Jackson, WY
Developed a protocol to test the biofilm disruption properties of various nasal decolonizers using porcine gastric mucin to simulate normal physiological processes in the nasal cavity
Results: Successfully quantified and visualized data via spiral plating and live-dead staining techniques

Gene Expression Studies for Experimental Therapeutics| NAMSA, Jackson, WY
Developed genetic testing service for examining virulence genes after application of a novel wound irrigator
Results: Successful downregulation of hla and agr *S. aureus* virulence genes

Microbial Migration Studies for Experimental Therapeutics| NAMSA, Jackson, WY
Developed a protocol to test the efficacy of surgical drapes by utilizing surgical incision techniques on porcine tissue that mimic in-hospital surgical incision protocols
Results: Successfully quantified the impact of surgical wound drapes in the migration of the Xen30 strain of S. aureus from skin into a surgical wound as compared to control

Microbiome Studies for Experimental Therapeutics| NAMSA, Jackson, WY
Completed testing to assess a baboon vaginal/cervical microbiome pre and post implantation of a silicone contraceptive device
Results: Successfully characterized pre-implantation, post-implantation, and device microbiomes utilizing a genomic sequencing collection kit and micro collection kit

Publications

Poster Presentation

1. Laubauch, Isabel, **Sarah Berlinski**, Jessica Sanders, Marnie Peterson, Ranjani Parthasarathy (2023). *Efficacy and Persistence of 3M Skin and Nasal Antiseptic for Reduction of S. Aureus Colonization on an Ex Vivo Porcine Tissue Model*. Available from IDWeek Conference, Boston, Massachusetts 10 Oct. 2023