



AS

ALAA SEWID

VISITING SCHOLAR

[HTTPS://WWW.LINKEDIN.COM/IN/ALAA-SEWID-A08622225/](https://www.linkedin.com/in/alaa-sewid-a08622225/)
[HTTPS://LOOP.FRONTIERSIN.ORG/PEOPLE/1073810/EDITORIAL](https://loop.frontiersin.org/people/1073810/editorial)

PROFESSIONAL SUMMARY

Highly motivated visiting scholar in pursuing a career in which can leverage these skills toward solving problems in human health, and have ability in designing cutting edge molecular assays for rapid detection of infectious agents. Documented publication record in eleven peer-reviewed literature, seven conference paper, and one upcoming publication. Recent PhD degree in synthetic cloning with effectively expressed several proteins and characterized their unique functions in December 2018.

SKILLS

- Molecular Biology
- DNA Cloning
- Protein Biochemistry
- Flow Cytometry
- DNA Sequencing

EXPERIENCE

VISITING SCHOLAR • SCHOOL OF NATURAL RESOURCES • UT • 05/01/2022 - NOW

My current work involves food-borne pathogens detection using isothermal amplification, colorimetric quantification, and electrochemical detection.

- School of natural resources -university of Tennessee-Knoxville-TN-USA

EDITORIAL BOARD REVIEWER • UT • 12/01/2020 - 01/01/2021

Managed competing deadlines with efficiency. Scientific and professional reviewing of various types of publications and submitted for approval by editor and publisher.

- Frontier in veterinary sciences
- Advances in Animal and Veterinary Sciences

PHD GRADUATE ASSISTANT • UT • 04/01/2016 - 04/01/2018

I pursued part of my PhD in Comparative and Experimental Medicine, where I worked on synthetic cloning of *Staphylococcus* surface antigens.

- Immunology and Molecular Diagnostics
- Dept. of Biomedical and Diagnostics sciences
- College of veterinary medicine- university of Tennessee-Knoxville-TN-USA

PUBLICATION, AND CONFERENCE MEETINGS

- 1) Antimicrobial potential of myricetin-coated zinc oxide nanocomposite against drug-resistant *Clostridium perfringens* Last author Alaa H. Sewid. BMC Microbiology (2023)
- 2) Application of Bacteriophages for Biocontrol of Extensively

- Laboratory Management, Daily Reports, and Staff Meetings
- Scientific Writing of Grant Proposals , and Papers Evaluation

REFERENCES

- Prof. Dr. Shigetoshi Eda (seda@utk.edu); Professor in the Department of Forestry, Wildlife & Fisheries, and Microbiology-school of natural resources-university of Tennessee-Knoxville-TN-USA
 - Prof. Dr. Stephen A.Kania (skania@utk.edu); Professor of Immunology and Molecular Diagnostics -Dept. of Biomedical and Diagnostics sciences - college of veterinary medicine-university of Tennessee-Knoxville-TN-USA
 - Prof. Dr. Doris D'Souza(ddsouza@utk.edu); Professor in the Department of Food Science-university of Tennessee-Knoxville-TN-USA
- Drug Resistant Salmonella Serovars Isolated from Poultry Farms Last author Alaa H. Sewid. Journal of Advanced Veterinary Research (2023)
 - Rhamnolipid-Coated Iron Oxide Nanoparticles as a Novel Multi target Candidate against Major Foodborne *E. coli* Serotypes and Methicillin-Resistant *S. aureus*. Second author Alaa H. Sewid. Microbiology Spectrum (2022)
 - Clonal Diversity and Epidemiological Characteristics of ST239-MRSA Strains. Second author Alaa H. Sewid. Front Cell Infect Microbiol (2022)
 - Evaluating the efficacy of a polyvalent infectious coryza vaccine against emerging avibacterium paragallinarum serotypes in egypt. Last author Alaa H. Sewid. Slovenian Veterinary Research (2021)
 - Antimicrobial resistance, virulence-associated genes, and flagellin typing of thermophilic campylobacter species isolated from diarrheic humans, raw milk, and broiler niches. Last author Alaa H. Sewid. Slovenian Veterinary Research (2021)
 - Mannan oligosaccharides as a Carbon Source in Biofloc Boost Dietary Plant Protein and Water Quality, Growth, Immunity and *Aeromonas hydrophila* Resistance in Nile Tilapia (*Oreochromis niloticus*). Second author Alaa H. Sewid. Animals (2020)
 - First Report of aacC5-aadA7 Δ 4 Gene Cassette Array and Phage Tail Tape Measure Protein on Class 1 Integrons of Campylobacter Species Isolated from Animal and Human Sources in Egypt. Last author Alaa H. Sewid. Animals (2020)
 - Influence of Glycyrrhiza extract on growth, genes expression of gut integrity and Campylobacter jejuni colonization in broiler chickens. Second author Alaa H. Sewid. Frontier in veterinary sciences (2020).
 - Staphylococcus pseudintermedius* Sbi paralogs inhibit complement and bind IgM, IgG Fc and Fab. First author Alaa H. Sewid. PLOS ONE (2019)
 - Identification, cloning and characterization of *Staphylococcus pseudintermedius* coagulase. First author

Alaa H. Sewid. Infection and Immunity (2018)

- Prof. Dr.Sreekmari Rajeev (srajeev@utk.edu) Professor of Infectious Diseases and Director of Bacteriology and Mycology Laboratory | Biomedical and Diagnostic Sciences
 - Prof. Dr. David Bemis (bemis@utk.edu); Professor of Bacteriology -Dept. of Biomedical and Diagnostics sciences - college of veterinary medicine- university of Tennessee-Knoxville- TN-USA
 - Dr. Aaron Baumann (abaumann@utk.edu); Postdoctoral Associate in Center for Agricultural Synthetic Biology- university of Tennessee-Knoxville- TN-USA
- 12) Electrochemical and Smartphone-Based Colorimetric Analysis of DNase Loop-Mediated Isothermal Amplification (DNase-LAMP) for Rapid and Inexpensive On-Site Detection and Quantification of *E. coli*. First author Alaa H. Sewid ASM Microbe 2023, Houston, Texas
 - 13) Optimization and validation of a novel platform for inexpensive on-site detection of pathogens in foods First author Alaa H. Sewid ASM Microbe 2022, Kentucky, TN
 - 14) Distinguishing characteristics of *Staphylococcus schleiferi* and *Staphylococcus coagulans* from human and canine origin First author Alaa H. Sewid ASM Microbe 2022, Kentucky, TN
 - 15) Development of a vaccine to treat *Staphylococcus pseudintermedius* infections in dogs. Third author Alaa H. Sewid. North American Veterinary Dermatology Forum in Maui, HI, in May, 2018
 - 16) Staphylococcal binder of immunoglobulin(Sbi) and coagulase are multifunctional *S. pseudintermedius* immune evasion proteins. First author Alaa H. Sewid. CEM seminar Monday March 5, 2018 Biomedical, and Diagnostic department University of Tennessee.
 - 17) Identification, Cloning and Characterization of Coagulase Protein from *S. pseudintermedius*. First author Alaa H. Sewid. Kentucky-Tennessee Branch of the American Society for Microbiology, November 2017 Meeting in Oakley STEM Center Tennessee Technological University, Cookeville, TN
 - 18) Identification, Cloning and Characterization of Coagulase Protein from *S. pseudintermedius*. First author Alaa H. Sewid. Comparative & Experimental Medicine Research Symposium, October 2017
 - 19) Evidence of host adaptation of coagulase positive *Staphylococcus schleiferi* from human and canine origin. First author Alaa H. Sewid. (upcoming publication in Plos one)