

Biographical Data

Rasaq Ojasanya is originally from Nigeria, and he obtained his Doctor of Veterinary Medicine degree from the College of Veterinary medicine, Federal University of Agriculture, Abeokuta in Nigeria, in 2018. Post-graduation, he worked with the Ministry of Agriculture and Food security Osogbo in Nigeria as a Veterinary Public Health officer. He later joined the Department of Health Management, Atlantic Veterinary College, in September 2020 to pursue his master's degree in Health Management and Epidemiology. His master's thesis research involves the evaluation of antimicrobial resistance trends in farmed salmonids in Atlantic Canada and the test validation of a main spectral profile for the detection of *Yersinia ruckeri* in Atlantic salmon.

Awards

- 2022 Summer Institute Scholarship for Statistics and Modeling in Infectious Diseases, Department of Biostatistics, University of Washington, USA
- 2021 Fish Health Graduate Student Awards, Atlantic Veterinary College, Department of Health Management, UPEI
- 2021 Summer Institute Scholarship Foundations for One Health, Faculty of Veterinary medicine, University of Calgary
- 2021 Summer Institute Scholarship for Statistics and Modeling in Infectious Diseases, Department of Biostatistics, University of Washington, USA

University of Prince Edward Island

Faculty of Veterinary Medicine
Summary of Dissertation

Submitted in Partial Fulfilment
of the Requirements for the

DEGREE OF MASTER OF SCIENCE

Rasaq Ojasanva

Department of Health Management

Supervisory Committee

Dr. Jeffery Davidson, Chair
Dr. Krishna Thakur, Co-supervisor
Dr. Ian Gardner, Co-supervisor
Dr. Sonja Saksida
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Examination Committee

Dr. Beibei Jia, Chair
Dr. Krishna Thakur
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Dr. Shivani Ojha
Mr. Matthew Saab

Bacterial identification and antimicrobial resistance trends in farmed salmonids in Atlantic Canada

This research provides valuable information on temporal trends of commonly-cultured bacteria in salmonid aquaculture in Atlantic Canada and has described these bacteria with their antimicrobial susceptibility profiles. This information may influence fish veterinarians' rational use of antimicrobials in choosing empirical therapies and treatments. Also, this study developed a protein spectral profile (MSP) to detect *Yersinia ruckeri* from Atlantic salmon. The developed MSP will supplement other *Yersinia* MSPs in a quality-assured matrix-assisted laser desorption ionization time-of-flight Biotyper® reference library to promote early detection of *Yersinia ruckeri* from salmonid samples submitted for bacteriology.

Publications

Ojasanya, R. A., Gardner, I. A., Groman, D. B., Saksida, S., Saab, M. E., & Thakur, K. K. (2022). Antimicrobial susceptibility profiles of bacteria commonly isolated from farmed salmonids in Atlantic Canada (2000–2021). *Veterinary sciences*, 9(4), 159.

Ojasanya, R. A., Akande, F. A., & Idowu, O. A. (2020). A comparison of four techniques for ante-mortem diagnosis of swine gastrointestinal parasitic infections. *Tropical Veterinarian*, 38(2), 67-82.

Presentations

- Ojasanya, R. A., Ian A. Gardner, David B. Groman, Sonja Saksida, Matthew E. Saab, and Krishna K. Thakur. (2022). Antimicrobial Susceptibility Profiles of Bacteria Commonly Isolated from Farmed Salmonids in Atlantic Canada (2000–2021). 16th International Symposium of Veterinary Epidemiology and Economics (ISVEE 16), Halifax, Nova Scotia, Canada. August 11, 2022, (oral presentation)
- Ojasanya, R. A., Ian A. Gardner, David B. Groman, Sonja Saksida, Matthew E. Saab, and Krishna K. Thakur. (2022). Antimicrobial Susceptibility Profiles of Bacteria Commonly Isolated from Farmed Salmonids in Atlantic Canada (2000–2021). In, One Health & Development for a World Under Pressure Symposium at the Ontario Veterinary College, University of Guelph, Canada. May 9, 2022 (Oral presentation)
- R.A, Ojasanya, I.A., Gardner, D., Groman, S., Saksida, M. E., Saab, & K.K., Thakur. (2021). Antimicrobial susceptibility patterns of bacteria commonly isolated from farmed salmonids in Atlantic Canada (2000-2021). In, Eastern Aquaculture Veterinary Association, Continuing Education Session, Canada. February 9, 2022 (Oral presentation)
- R.A, Ojasanya, I.A., Gardner, D., Groman, S., Saksida, M. E., Saab, & K.K., Thakur. (2021). Antimicrobial susceptibility patterns of bacteria commonly isolated from farmed salmonids in Atlantic Canada (2000-2021). University of Prince Edward Island Graduate Studies and Research Conference. October 13, 2021 (Oral presentation)