

POSTDOCTORAL POSITION OFFER – UNIVERSITÉ LAVAL (Quebec, Canada)

Program	Postdoctoral research program
Research fields	Microbiome, bio-informatics, metagenome, metatranscriptome and metabolome approaches
Faculty, Department	Faculty of Agriculture and Food Sciences, Food science
Duration	1 year, renewable
Annual salary	45 000 CAD
Director	Dr. Ismaïl Fliss

A postdoctoral position is available at the Food science department, Faculty of agriculture and food sciences of the Université Laval to investigate the interplay between natural antimicrobial compounds and indigenous microflora in food products and animal gut microbiota. This project will take place within the NSERC Industrial Research Chair in metabolic activity and the functionality of bioprotective lactic cultures (METABIOLAC) held by Dr. Ismaïl Fliss. The purpose of this Chair is to develop natural alternatives to chemical additives used for food preservation and to antibiotics employed as growth promoters in livestock production.

We are looking to recruit a highly motivated candidate interested in characterizing microbial ecosystem dynamics in the gut or in food products using metagenomics, metabolomics, metatranscriptomics and bioinformatics methods. We are specifically interested in interspecies interactions, impacts of antimicrobial compounds on microbial ecosystems and antibiotic resistance. The candidate should hold a Ph.D. degree in microbiology, biology, bioinformatics or a related field. Research experience in microbial ecology, working knowledge of omic approaches and excellent oral and written communication skills are essential. Experience with standard molecular methods (e.g. nucleic acid extraction, PCR, q-PCR) would be an asset.

The postdoctoral scientist will be employed for a full-time, one-year duration with the possibility to extend for an additional year. The project will begin in June 2019 and the annual fellowship is 45 000\$ plus benefits according to the collective agreement for postdoctoral fellow at Université Laval. The successful candidate will have access to well-equipped microbiology (levels 1 and 2) and analytical chemistry laboratories.

Candidates must send 1) a cover letter; 2) a curriculum vitae; 3) two relevant publications and 4) contact information for three independent professional referees to: ismael.fliss@fsaa.ulaval.ca.