

POSTDOCTORAL POSITION IN MICROBIOME RESEARCH SyMBIOTA (Synergy in Microbiota Research)

Funded by CIHR's \$13M Canadian Microbiome Initiative, the SyMBIOTA research team is investigating the impact of early life exposures (maternal stress, birth mode, antibiotic use and infant diet) on the infant intestinal microbiome, and subsequent development of asthma, allergic disease and overweight in childhood, using data obtained from mothers and infants in the Canadian Healthy Infant Longitudinal Development (CHILD) study (<http://www.canadianchildstudy.ca/>).

We are seeking to recruit an exceptional Postdoctoral Fellow to analyze infant gut microbiome data in relation to pre and postnatal exposures, as well as to child health outcomes in the CHILD pregnancy cohort study. The analysis repertoire will range from standard epidemiologic testing for associations, and structural equation and repeated measures modeling to microbiome-specific techniques, such as supervised and unsupervised learning, and principle coordinates analysis (based on phylogenetic distance metrics). See Goodrich et al. Cell 2014; 158 for an overview of microbiome research techniques.

The position offers an exciting and unique opportunity to become part of the largest infant microbiome study in North America and contribute novel data to the evolving area of microbiome research. The candidate will become a key part of our inter-disciplinary team of microbiologists, evolutionary biologists, immunologists, pediatric allergists and statisticians across 5 Canadian universities.

The ideal candidate will be a highly ambitious, self-motivated individual with a background in advanced statistics/bioinformatics (SAS, R-statistics), exceptional oral and written English communication and a strong publication record. Completion of postgraduate courses in biostatistics and epidemiology is a requirement. Experience in epidemiological research and/or analysis of microbiome datasets, including familiarity with the microbiome bioinformatics and analysis program, QIIME, is an asset. Previous postdoctoral students with the SyMBIOTA team have been highly competitive, receiving funding from Banting, CIHR, AIHS and the Killam Foundation.

To Apply:

Please send your CV and letter of interest to Dr Anita Kozyrskyj
kozyrsky@ualberta.ca

Closing date:

Position open until filled.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted.

The University of Alberta offers appointments on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities and Aboriginal persons.