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## Postdoctoral Position

### Pharmacogenomics and Neuropharmacology Laboratory of Rachel F. Tyndale

#### University of Toronto and CAMH, Toronto, Ontario, Canada

The laboratory of Dr. Rachel F. Tyndale is recruiting at least two Postdoctoral Fellows to join our group at the University of Toronto and Centre for Addiction and Mental Health. The research focus of our laboratory is two-fold. 1) Pharmacogenomics: we investigate the intersections between sex, gender, genetics, and ancestry to better understand individual differences in the use and abuse potential of psychoactive drugs including nicotine and opioids. Importantly, in identifying genomic predictors of response to treatment medications, we also advance personalized medicine approaches for the treatment of drug addiction. 2) Neuropharmacology of drug response and risk for drug use and addiction: we study the role of metabolism by cytochrome P450 enzymes (CYPs) in the brain, in the risk for drug addiction and associated diseases, and in interindividual variation in drug response. We are seeking at least one candidate for each area.

*Pharmacogenomics:* The ideal candidate would have a PhD in Pharmacology or Genetics or a related field. Proficiency in statistical genetics and/or bioinformatics is considered an asset. The ideal candidate would have experience in analyzing 'big data', bash scripting, one or more programming languages, and Linux, and would take the lead in designing and running projects investigating genomic sources of variation in drug metabolism and addiction-related diseases and traits.

*Neuropharmacology:* The ideal candidate would have a PhD in Neuropharmacology or a related field, with additional research experience in drug metabolism and rodent self-administration models or other rodent models of drug reward or drug response. They would take the lead in designing projects exploring the role of drug metabolism by CYPs

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in the brain in drug reward, as well as other projects exploring the role of metabolism by CYPs in the brain in drug response.

Our laboratory provides a rich training environment in the areas of drug metabolism, pharmacogenomics, and preclinical research. Dr. Tyndale and senior scientists in the group have an appointment at both the University of Toronto and the Centre for Addiction and Mental Health, enhancing the close association between the institutions and providing unique opportunities for collaboration between Scientists in the Department of Pharmacology and Toxicology and Scientists/Clinicians at the Centre for Addiction and Mental Health, and throughout the research-rich environment of the Toronto Academic Health Science Network (TAHSN) hospitals.

These positions are available immediately, initially for a period of one year with the option of extension for additional years. Salary is commensurate with experience, with a minimum of \$40,000 Canadian dollars per annum. The normal hours of work are 40 hours per week for a full-time postdoctoral fellow (pro-rated for those holding a partial appointment) recognizing that the needs of the employee's research and training and the needs of the supervisor's research program may require flexibility in the performance of the employee's duties and hours of work.

Interested candidates should send a CV and a cover letter outlining their research interests and career goals to:

**Dr. Rachel F. Tyndale, [r.tyndale@utoronto.ca](mailto:r.tyndale@utoronto.ca)**

Professor Departments of Pharmacology & Toxicology, and Psychiatry, University of Toronto

Canada Research Chair in Pharmacogenomics, Pharmacogenetics Head, CAMH

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Employment as a Postdoctoral Fellow at the University of Toronto is covered by the terms of the CUPE 3902 Unit 5 Collective Agreement. This job is posted in accordance with the CUPE 3902 Unit 5 Collective Agreement.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.