Postdoctoral Fellow or PhD
Aptamers: small molecule sensing and novel aptamer selection

interdisciplinary | sensors | synthetic chemistry | DNA | SELEX

Profs. David Juncker and Hanadi Sleiman of McGill University seek an outstanding postdoctoral fellow or a PhD candidate to (i) work on ultrasensitive detection of small molecules (environmental contaminants) using aptamers and (ii) develop novel aptamer-screening methods using chemically-enhanced DNA.

Start: Immediately or at the earliest convenience for Post-docs, 1. Jan. 2018 for PhD candidates.

Major Activities:
- Develop and optimize assay for detecting small molecules on an integrated platform using beads, microfluidics, and electrochemical sensors.
- Design and test novel screening methods to identify aptamers against small molecules.
- Test chemically-enhanced DNA aptamers for binding and develop screening methods.
- Coordination of projects and interaction with clinical and scientific collaborators.
- Supervision and training of students.
- Possibility to participate in grant writing and teaching upon mutual agreement.

Requirements and assets:
- Strong background in aptamers, sensors, synthetic chemistry, SELEX.
- Knowledge of bead-based assays, microfluidics, DNA chemistry, electrochemistry, environmental contamination, technology integration for lab-on-a-chip applications.
- Team player with leadership abilities.
- Excellent communication and writing skills.
- Education in related area.

Please send your application (cover letter, CV, names of three references and pertinent reprints and preprints, preferred format .pdf) by email with the subject “Postdoctoral Fellow on Aptamers” or “PhD on Aptamers” to:

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Please visit our webpages for additional information:
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