

# **APTAMER WORKSHOP**

## **by NeoVentures Biotechnology Inc.**

February 23rd, 2016.

**Institut du cerveau et de la moelle épinière (ICM)**  
**Hôpital Pitié Salpêtrière, Paris, France**

**Free** workshop. Pre-registration required by February 12th, 2016 at [info@neovertures.ca](mailto:info@neovertures.ca). After this date attendance will be subject to space availability.

Learn the latest in aptamer selection and applications from an industry leader. NeoVentures will describe their new free aptamer/free target selection strategy called FRELEX. We will also discuss what is necessary to get aptamers to work well in diagnostics and provide an introduction to aptamers for therapeutics.

### **Agenda:**

#### **Session I 1:00- 3:30 : Aptamer selection**

- Introduction to aptamers
  - Custom selection strategies, counter selection and contrasts
  - Mathematics of the selection process
- The use of modified nucleotides for therapeutic aptamers
  - DNA versus RNA
- FRELEX: The new standard for aptamer selection
  - Reverse FRELEX for ligand/protein interactions
- Next generation sequencing (NGS). What good aptamers look like.
- Binding assays: SPRi Surface Plasmon Resonance Imaging:
  - Sandwich assays
  - Antisense development
- Using gold nano particles (GNP) binding assays for metabolites

#### **3:30 to 4:00 Coffee Break**

#### **Session II 4 :00 to 5:30 : Aptamer Applications**

- Steps in the development of diagnostic test kits (ELASA/Lateral flow)
- In solution assays
- Aptamers for therapeutics applications:
  - Tissue selection for Alzheimer's disease ( NeoNeuro-ICM-IPEPS)
- Discovering biomarkers with aptamers

#### **5:30 6:00 Q&A**

#### **6:00 A glass of wine**