

3rd ANNUAL APTAMER WORKSHOP

by NeoVentures Biotechnology Inc.

February 21st, 2017

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

Free Workshop.

Pre-registration required by February 7th. 2017 at info@neovertures.ca.

After this date, attendance will be subject to space availability.

13:00 Introductions

13:10 Aptamer identification

- Overview of aptamer selection.
 - Mathematical models. How to apply stringency in each selection cycle
- Overview of FRELEX : Free aptamer - Free target selection platform
 - Different selection strategies and outcomes.
- Next Generation Sequencing (NGS) analysis of candidate sequences
 - Predicting binding performance of sets of aptamers
- Binding assays
 - Binding Assays using surface plasmon resonance imaging (SPRI)
 - Binding Assays with ITC , Isothermal Titration Calorimetry
 - Data Analysis. Improving binding. Binding in Matrices.

15:00 Coffee break

15:20 Aptamer applications

- Diagnostics
 - ELISA
 - Lateral flow
 - GNP : Gold Nano-Particles in solution
- Therapeutics
 - Selecting aptamers with nuclease protection
 - Aptamers that penetrate the Brain Blood Barrier and cells.
 - Pharmacokinetics
- Biomarker discovery
 - REP platform for biomarker identification
 - Aptamers for the identification of low abundance proteins

17:30 Questions

18:00 Reception