

**Theoretical-Practical Course on Measuring Gene Expression in Micropunches of Discrete Brain Nuclei:  
Special Emphasis on brain control of reproduction and metabolism**

Organizers: **Dr. Victoria Lux-Lantos** and **Dr. Noelia Di Giorgio** (IBYME-CONICET, Buenos Aires, Argentina)

International expert: **Dr. Alexander S. Kauffman** (Associate Professor, Department of Reproductive Medicine, UCSD, USA)

2-day course in English language: Thursday 4<sup>th</sup>- Friday 5<sup>th</sup> December 2014

**Contact information:**

Dr. Victoria Lux-Lantos:

Instituto de Biología y Medicina Experimental (IBYME-CONICET)

Vuelta de Obligado 2490 (C1428ADN) CABA

011 4783 2869 int 287/224

vlux@lantos.com.ar

vlux@ibyme.conicet.gov.ar

**Day 1:** 9:00-9:45 - Introductory lecture: The brain and its nuclei. Analyses of mRNA in the brain. Use of brain atlas.

Dr. Alexander Kauffman

9:45-10:30 -Introductory lecture to technique of brain collection and freezing, brain slicing and micropunching

Dr. Alexander Kauffman

10:30-11:00 - Coffee break, Meet the expert.

11:00-13:00 - Hands-on training: Inclusion in OCT, brain slicing in cryostat and punching of nuclei

(2-3 persons/per group): one group/hour

Dr. Alexander Kauffman

11:00-13:00 For groups waiting for hands on training with Dr. Kauffman:

- Brain dissection and freezing: lab demonstration and hands-on training.

Dr. Noelia Di Giorgio

13:00 – 14:30 Lunch

14:30 - 16:00 - Hands-on training: Inclusion in OCT, brain slicing in cryostat and punching of nuclei

(2-3 persons/per group)

Dr. Alexander Kauffman

14:30 - 16:00 For groups waiting for hands on training with Dr. Kauffman:

- Brain dissection and freezing: lab demonstration and hands-on training.

Dr. Noelia Di Giorgio

16:00 - 16:30 Coffee/drink Break. Chat/trouble-shooting with the expert

16:30 - 18:00 - Hands-on training: Inclusion in OCT, brain slicing in cryostat and punching of nuclei

(2-3 persons/per group)

Dr. Alexander Kauffman

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**Day 2:**

9:00 - 10:00 – Extraction and quantification of RNA—Introductory lecture

Dr. Noelia Di Giorgio

10:00 – 10:15 – Coffee break

10:15 – 12:00 - Hands-on RNA extraction of punches obtained by participants

Dr. Noelia Di Giorgio

12:00-13:30 - Lunch (**tarde en aula**)

13:30 – 16:00 – Quantification of RNA.

Calculation of total RNA in samples in preparation for qPCR

Dr. Noelia Di Giorgio

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**Registration fees:**

SAB members: \$ 1.000.-

Non SAB members: \$ 1.500.-

**Deadline for registration:** November 20, 2014.

**Limited number of assistants:** 20