

SAN2020 E-BOOK

Welcome

*In the context of the COVID19 pandemic, the XXXV Annual Meeting of the Argentinian Society for Neuroscience Research took place under a **virtual** format, opening an opportunity to widely reach the neuroscience community in Argentina and abroad.*

*Conserving the classical structure the meeting included **plenary lectures, symposia, young investigator talks and poster presentations**, as well as **round tables** discussing career advancement, work environment topics and a special event dedicated to LATBrain (Latin American Brain Initiative).*

*The meeting was supported, as every year, on the principles of **scientific excellence and nationwide representation, with a special emphasis in gender equality.***

EXECUTIVE BOARD SAN

DR. LILIANA CANCELA, PRESIDENT
IFEC (UNC-CONICET) / DF (FCQ-UNC)

DR. MARTA ANTONELLI, VICE-PRESIDENT
IBCN-CONICET, FMED UBA

DR. MARIO GUIDO, PAST-PRESIDENT
CIQUIBIC (FCQ, UNC-CONICET)

DR. MARÍA ANA CONTÍN, SECRETARY
CIQUIBIC (FCQ, UNC-CONICET)

DR. JUAN E. FERRARIO, TREASURER
IB3 (UBA), CONICET / DFBMC (FCEN-UBA)

DR. MARCELA BROCCO, VOCAL
INSTITUTO DE INVESTIGACIONES
BIOTECNOLÓGICAS (IIB-UNSAM)

DR. PATRICIA SETTON, VOCAL
IQUIFIB (UBA-CONICET) / FFYB UNIVERSIDAD DE
BUENOS AIRES.

DR. NICOLÁS UNSAÍN, VOCAL
INIMEC (UNC-CONICET)

ORGANIZING COMMITTEE

DR. LILIANA CANCELA
IFEC (UNC-CONICET) / DF (FCQ-UNC)

DR. VERÓNICA DE LA FUENTE
IFIBYNE (UBA-CONICET) / DFBMC (FCEN-UBA).

DR. JUAN FERRARIO
IB3 (UBA), CONICET / DFBMC (FCEN-UBA)

DR. GRACIELA MAZZONE
IIMT (UA-CONICET) / UNIVERSIDAD AUSTRAL, FCB
Y CONICET.

DR. SANTIAGO OJEA RAMOS
IFIBYNE (UBA-CONICET).

DR. ALEJANDRA PACCHIONI
FCBYF - UNR / CONICET.

DR. LORENA RELA
IFIBIO HOUSSAY (UBA-CONICET) / FISIOLÓGÍA
(FMED-UBA)

DR. PATRICIA SETTON
IQUIFIB (UBA-CONICET) / FFYB UBA

DR. AZUL SILVA
IFIBIO HOUSSAY (UBA-CONICET)

DR. NICOLÁS UNSAIN
INIMEC (UNC-CONICET)

TEAM

PABLO BRAMAJO
SAN Secretariat

PAUL CABALLERO
SAN Webmaster

SILVINA CERIANI
SAN Meeting Manager

Code of conduct

All attendees are required to agree with the following code of conduct. Organizers will enforce this code throughout the event. We expect cooperation from everyone to help ensure a safe environment for everybody.

No unauthorized Recording:

*While some presentations may be recorded by the organizers for on demand broadcast with permission from presenters, **it is not allowed for attendees to record sessions**. This restriction applies to all the scheduled events in the conference including chat interactions.*

If you become aware of someone making unauthorized recordings, please contact to congresosan2020@gmail.com immediately.

Any person or organization recording without authorization may be subject to legal actions by the affected presenter, the organizations they are affiliated with, or by SAN.

SAN Congress material, including videos, will be available only for those registered to the congress and will not be archived, uploaded to the networks or broadcasted via streaming unless explicitly allowed by the speakers in writing. Videos whose presenters did not consent to be uploaded to the congress website will be deleted immediately once the activity is over.

SAN adheres to the copyright laws guiding the appropriate sharing of scientific research material, including data.

Do not share links, slides, poster material or audio/video with unregistered attendees.

Individuals should register for the event individually. Sharing access links makes the conference more prone to unwanted disruptions. Sharing login credentials or access links will result in an automatic ban from the conference.

Conference Best Practices:

All communication must be carried out in a professional and respectful manner. Live sessions will be moderated and disrespectful messages will not be tolerated.

SAN encourages open intellectual discussion in a welcoming and inclusive environment. Inappropriate behavior, harassment or offensive acts towards any member of the community is strictly prohibited and will result in removal from the conference and a report to the host institution of the removed attendee will be issued. Be friendly, welcoming and respectful. When discussing with colleagues, disagreement is an unavoidable occurrence and it is important that all discussions are carried out in good faith and seen as an opportunity to improve others and our own work. Be mindful of the tone and words you choose to communicate with others. Inappropriate behavior can be reported to congresosan2020@gmail.com.

Program

	Oct 7	Oct 8	Oct 9
9:00 - 11:00	Symposia Wed-S1 to Wed-S4: Beckwith & de la Fuente, Falzone & Jerusalinsky, Kochen, Rayes.	Symposia Thu-S5 to Thu-S9: Amador, Bellini, Bianchi & Kamienkowski, Locatelli & Sumbre, Rossetti.	Symposia Fri-S10 to Fri-S14: Espósito & Morgenstern, Goldin, Pigino, Berardino & Sonzogni, Tagliazucchi
11:30 - 12:30	"Eduardo De Robertis" Plenary Lecture Gustavo Murer: What mechanisms underlie Parkinson's disease symptoms?	Plenary Lecture: Zhigang He: From axon regeneration to function recovery after CNS injury	Plenary Lecture: Tracy Bale: 50 years since Leloir's Nobel: Maternal stress and energy signals critical to neurodevelopment.
12:30 - 13:30			
13:30 - 14:30	Políticas de Ciencia y Técnica en Argentina	Latbrain Initiative	IBRO LARC CEPAL: Gender Survey Results
14:30 - 15:30	Young Investigator Talks: Wed-YIT-1 to Wed-YIT-4	Young Investigator Talks: Thu-YIT-5 to Thu-YIT-8	Oral Communications
16:00 - 17:00	Plenary Lecture: Kay Tye: Neural Representations of Social Homeostasis	"Hector Maldonado" Plenary Lecture: Sheena Josselyn: Making memories in mice.	"Ranwell Caputto" Plenary Lecture: Juana Pasquini: Cinco décadas de Neurociencias en América Latina: Siguiendo los pasos de Ranwel Caputto
17:00 - 19:30	E-Poster Session 1	E-Poster Session 2	E-Poster Session 3
19:30 - 21:00	Looking for a postdoc abroad? Tips for international postdoc interviews.	Asamblea SAN	

COGNITION, BEHAVIOR AND MEMORY

Caloric restriction recovered cerebellar motor and cognitive abilities in aged rats

Ivanna Castro Pascual ¹, Bruna Pereira Sorroche ², Florencia Elisa Curzel ³, Fernando Gabriel Altamigano ¹, Mariana Lucila Ferramola ⁴, Maria Gabriela Lacoste ¹, Marcela Delgado ⁴, Mauricio Martin ⁵, Ana Cecilia Anzulovich ^{1,4}

1 Laboratorio de Cronobiología, IMIBIO-SL, CONICET-UNSL, San Luis, Argentina

2 Centro de Pesquisa em Oncologia Molecular, Hospital de Câncer de Barretos, São Paulo, Brasil

4 FQByF, UNSL, San Luis, Argentina

5 Laboratorio de Neurobiología, INIMEC, CONICET-UNC, Córdoba, Argentina

Presenting author:

Ivanna Castro Pascual, ivannacastropascual@gmail.com

The beneficial effects of caloric restriction would work through epigenetic processes, but this is largely unexplored. Here, we examine the hypothesis that CR recovers learning and motor coordination associated to changes in Bdnf and TrkB DNA methylation, in old rats. For that, male Holtzman rats -young (3-mo-old, n=8), old (22-mo-old, n=9), both fed ad-libitum, and 18-mo-old rats fed a 40% calorie restricted diet for 3 months (n=4)- were kept under 12h-light: 12h-dark, 22-24 °C and water ad-libitum. Performing the Single Reaching Pellet test, we observed that the percentage of the total success rate and the quality of the first attempt during performance are significantly lower in the old compared to the young and old rats with CR ($p < 0.05$). As a control the olfactory sense and mood of the animals, the Buried Food Pellet and Corner Test were performed respectively. Samples (n=6) of cerebellar DNA from the three groups, were examined by bisulfite sequencing at CpG sites in regulatory regions in exons 3 and 9 of Bdnf and exon 1 of TrkB genes, to measure methylation with base-specificity. We observed 89 to 100% methylation at the CpG site in exon 9 of Bdnf gene, with no significant differences between groups. Methylations were not detected at the CpG sites in exon 3 of Bdnf nor exon 1 of TrkB gene, in any of the experimental groups. Our results show there is no association between cognitive CR benefits and CpG methylation of cerebellar Bdnf and TrkB genes in the studied exons.