

BIOGRAPHICAL SKETCH

FULL NAME ROSANA CAMARINI	POSITION TITLE ASSOCIATE PROFESSOR		
AFFILIATION UNIVERSIDADE DE SAO PAULO			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Universidade de São Paulo, São Paulo, SP, Brazil	B.Sc	12/1986	School of Pharmaceutical Sciences
Universidade Federal de São Paulo, São Paulo, SP, Brazil	M.Sc.	1991	Psychobiology
Universidade Federal de São Paulo, São Paulo, SP, Brazil	Ph.D	1997	Psychobiology
Ernest Gallo Clinic and Research Center, UCSF, CA, USA	Postdoc	2001	Alcohol Research

NOTE: The Biographical Sketch may not exceed four pages. Follow the formats and instructions below.

A. Personal Statement: In this space briefly describe your professional experience as it relates to your role in this education activity (e.g., session organizer, chair, introducer, presenter, discussant). This may include current research efforts, internships, residency programs, fellowships, certifications, and other professional endeavors including recent presentations.

These are my areas of interest: Neurobiological basis of drug addiction and dependence; stimulant-induced sensitization; animal models of addiction.

Organization of **LASBRA** Meetings:

2011- São Paulo, Brazil – Rosana Camarini, Ricardo Pautassi, Luis Aguayo

2013 – Concepción, Chile – Luis Aguayo, Rosana Camarini, Ricardo Pautassi

2017 – Puerto Varas, Chile – Luis Aguayo, Ricardo Pautassi, Rosana Camarini

Sponsors: The Sao Paulo Research Foundation (FAPESP), Brazilian Coordination for the Improvement of Higher Level Personnel (CAPES), International Brain Organization (IBRO), International Society for Neurochemistry (ISN), LASBRA, PCI/Conicyt and the Universidad de Concepción

Role in International Symposium as Chair/Speaker (last 5 years):

- **Camarini, R** (Speaker). The good, the bad and the ugly side of environmental enrichment on ethanol's effects. **SOFARCHI** Meeting; **LASBRA** Meeting, Puerto Varas, Chile, 2017.
- **Camarini, R** and Naassila, M. (Chair and Speaker). Parallel approaches for oxytocin and environmental enrichment upon ethanol's rewarding effects (ESBRA-LASBRA Joint Symposium). **ESBRA** Meeting, Hersonissos, Grécia, 2017.
- Guerri, C; **Camarini, R** (Chair and Speaker). Effects of environmental enrichment upon ethanol-induced conditional place preference and BDNF levels in adolescent and adult mice. **ESBRA** Meeting, Hersonissos, Grécia, 2017.
- **Camarini R** and **Dodd P** (Organizers). An interdisciplinary and translational approach to understanding the role of GABA system in AUD. In: International Society for Biomedical Research on Alcoholism - **ISBRA** Meeting, Berlin, Germany, 2016.
- **Camarini R** (Speaker). Environmental enrichment vs exercise: ethanol sensitization vs CPP. In: International Society for Biomedical Research on Alcoholism - **ISBRA** Meeting, Berlin, Germany, 2016.

- **Camarini R and Aguayo L (Chair).** An international and interdisciplinary approach to characterize new models of alcohol addiction in rodents and novel therapies for AUD. **European Society for Biomedical Research on Alcoholism/ Latin American Society for Biomedical Research on Alcoholism Joint Meeting**, Valencia, Spain, 2015
- **Camarini R (Speaker).** Environmental enrichment attenuates behavioural and neurochemical effects of ethanol: a model of eustress. **Research Society on Alcoholism/ International Society for Biomedical Research on Alcoholism/ RSA/ISBRA Joint Meeting**, Seattle, WA, USA, 2014
- **Camarini R (Chair).** Theories of addiction: Experimental evidences using different models. **Latin American Society for Biomedical Research on Alcoholism; LASBRA-LARNEDA Joint Meeting**, Concepción, Chile, 2013.
- **Camarini R (Speaker).** Comparing behavioural responses to alcohol and cocaine in adolescent and adult mice: implication for the role of CREB in the behavioural sensitization process. **Latin American Society for Biomedical Research on Alcoholism; LASBRA-LARNEDA Joint Meeting**, Concepción, Chile, 2013.
- **Camarini R (Chair and Speaker).** Environmental enrichment blocks ethanol-induced behavioral sensitization and decreases ethanol intake. **European Society for Biomedical Research on Alcoholism**, Warsaw, Poland, 2013.
- **Camarini R (Speaker).** Comparing behavioural responses to alcohol and cocaine in adolescent and adult mice: implication for the role of CREB in the behavioural sensitization process. **European Opioid Conference**, Guildford, UK, 2013

B. Positions and Honors: List in chronological order previous positions, concluding with the present position. List any honors. Include present membership on any Federal Government public advisory committee.

- Principal Investigator and Associate Professor at the Department of Pharmacology -Institute of Biomedical Sciences -Universidade de São Paulo, SP, Brazil
- Vice-Head of the Department of Pharmacology - Universidade de São Paulo – 2017-2019.
- Head of the PostGraduate Program in Pharmacology – 2013-2017
- Member of the Board of Directors of the International Society for Biomedical Research on Alcoholism – 2014-2018
- Vice-President Jr of the International Society for Biomedical Research on Alcoholism – 2016-2018
- President of Latin American Society for Biomedical Research on Alcoholism – 2008 -2013
- Member of the Animal Ethics Committee – 2009 - 2012
- Member of the Committee on Undergraduate Teaching for the Course of Pharmacy and Biochemistry – 2012-present
- Member of the Pharmacology Department Council – 2005 – 2011, 2013-2019.
- Member of the Institute of Biomedical Sciences Council – 2005 – 2011, 2017-2020.
- Member of the Research Committee of the Institute of Biomedical Sciences – 2005 – 2010.

C. Selected Peer-reviewed Publications: RSA encourages applicants to limit the list of selected peer-reviewed publications or manuscripts in press to no more than 15. Do not include manuscripts submitted or in preparation. The individual may choose to include selected publications based on recency, importance to the field, and/or relevance to the proposed research (last 5 years).

- Keyworth, H; Georgiou, P ; Zanos, P ; Rueda, AV ; Chen, Y ; Kitchen, I ; **Camarini, R**; Cropley, M; Bailey, A. Wheel running during chronic nicotine exposure is protective against mecamylamine-precipitated withdrawal and up-regulates hippocampal $\alpha 7$ nACh receptors in mice. **British Journal of Pharmacology**, in press, 2017.
- Pautassi R, Suarez A, Hoffman LB, Rueda AV, Rae MB, Marianno P, **Camarini R**. Effects of environmental enrichment upon ethanol-induced conditioned place preference and pre-frontal cortex BDNF levels in adolescent and adult mice. **Scientific Reports**, 7(1): 8574, 2017.

- Carrara-Nascimento PF, Hoffman LB, Contó MB, Marcourakis T, **Camarini R**. Ethanol sensitization during adolescence or adulthood induces different patterns of ethanol consumption without affecting ethanol metabolism. **Front Behav Neurosci**, 11:46, 2017.
- Marianno P, Abrahao KP, Camarini R. Environmental enrichment blunts ethanol consumption after restraint stress in C57BL/6 mice. **PLoS One**, 12: e0170317, 2017.
- Novaes LS, Dos Santos NB, Batalhote RF, Malta MB, **Camarini R**, Scavone C, Munhoz CD. Environmental enrichment protects against stress-induced anxiety: Role of glucocorticoid receptor, ERK, and CREB signaling in the basolateral amygdala. **Neuropharmacology**, v.113: 457-466, 2017.
- Garcia RC, Torres LH, Balestrin NT, Andrioli TC, Florio JC, de Oliveira CD, da Costa JL, Yonamine M, Sandoval MR, **Camarini R**, Marcourakis T. Anhydroecgonine methyl ester, a cocaine pyrolysis product, may contribute to cocaine behavioral sensitization. **Toxicology**, v. 376: 44-50, 2017.
- Ravelli KG, Rosário BDA, Vasconcelos AR, Scavone C, **Camarini R**, Hernandez MS, Britto LR. NADPH oxidase contributes to streptozotocin-induced neurodegeneration. **Neuroscience**, v. 358: 227-237, 2017.
- **Camarini R**,; Scavone, C. ; Marcourakis, T. Long-Lasting Changes Following Repeated Cocaine Use. In: Victor R. Preedy. (Org.). *The Neuroscience of Cocaine*. 1ed.Amsterdam: Elsevier, v. , p. 353-361, 2017.
- Quadir SG, Santos JR, Campbell RR, Wroten MG, Singh N, Holloway JJ, Bal SK, **Camarini R**, Szumlinski KK. Homer2 regulates alcohol and stress cross-sensitization. **Addiction Biology**, 21: 613-633, 2016.
- **Camarini R**, Pautassi, RM. Behavioral sensitization to ethanol: Neural basis and factors that influence its acquisition and expression. **Brain Res Bull**, 125: 53-78, 2016.
- **Camarini R**, Pautassi, RM. Alcohol Abuse in Adolescents: Relevance of Animal Models and Experimental Results in Adolescent Animals. In: Denise De Michele; André Luiz Monezi Andrade; Eroy Aparecida da Silva; Maria Lucia Oliveira de Souza Formigoni. (Org.). *Drug Abuse in Adolescence Neurobiological, Cognitive, and Psychological Issues*. 1ed.Cham: Springer, v. 1, p. 101-112, 2015.
- Correia D, Martynhak BJ, Pereira M, Siba IP, Ribeiro AF, **Camarini R**, Boerngen-Lacerda R. Reduction of ethanol intake by corticotropin-releasing factor receptor-1 antagonist in “heavy-drinking” mice in a free-choice paradigm. **Psychopharmacology**, v. 232:2731-2739, 2015.
- Garcia RC, Dati LM, Torres LH, da Silva MA, Udo MS, Abdalla FM, da Costa JL, Gorjão R, Afeche, SC, Yonamine M, Neswender CM, Conn PJ, **Camarini R**, Sandoval MR, Marcourakis T. M1 and M3 muscarinic receptors may play a role in the neurotoxicity of anhydroecgonine methyl ester, a cocaine pyrolysis product. **Scientific Reports**, 5:17555, 2015.
- Torres LH, Annoni R, Balestrin NT, Coletto PL, Duro SO, Garcia RC, Pacheco-Neto M, Mauad T, **Camarini R**, Britto LR, Marcourakis T. Environmental tobacco smoke in the early postnatal period induces impairment in brain myelination. **Archives of Toxicology**, v.89: 2051-2058, 2015.
- Coelho FG, Vital TM, Stein AM, Arantes FJ, Rueda AV, **Camarini R**, Teodorov E, Santos-Galuduróz RF. Acute aerobic exercise increases brain-derived neurotrophic factor levels in elderly with Alzheimer’s disease. **Journal of Alzheimer’s Disease**, v. 39:401-408, 2014.

D. Research Support: List both selected ongoing and completed research projects for the past three years (Federal or non-Federally-supported).

- **2016-2019** – Study of environmental enrichment on ethanol-related behaviors and the relationship between oxytocin and dopamine systems. Grant# 408228/2016-4. Funding Agency: **CNPq (National Council for Scientific and Technological Development)**
- **2016-2018** – Environmental enrichment as a phenotype inductor of behaviors that access addictive characteristics in mice. Grant #2015-02397-0. Funding Agency: **FAPESP (The Sao Paulo Research Foundation)**
- **2013 - 2016**– Environmental influences on the effects of ethanol on BDNF signaling. Grant# 470070/2012-9. Funding Agency: **CNPq**
- **2012 – 2015**: Evaluation of the CREB pathway in adolescent and adult mice treated with chronic cocaine. Grant#12/10260-7. Funding Agency: **FAPESP**