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Neuroscience Institute
Georgia State University.
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EDUCATION

- Ph.D. Neuroscience: 2015.
Universidad Nacional de Córdoba, Córdoba, Argentina.
Dissertation title: Role of sex chromosomes in brain sexual differentiation.
Mentor: María Julia Cambiasso, PhD
- B.S. Biologist (equivalent MS Biology): 2007.
Universidad Nacional de Córdoba, Argentina.
Thesis title: Influence of external prenatal adverse agents on the maternal synchronization of fetal clock.
Mentor: Nelia T. Vermouth, PhD

EXPERIENCE

- Position: Postdoctoral Research Associate
Advisor: Nancy Forger, PhD
Institution: Georgia State University, Atlanta, GA (2016-present)
- Position: Assistant Professor (teaching position)
Institution: Departamento de Biología Oral. Course: Introducción a la Física y Química Biológicas. Facultad de Odontología. Universidad Nacional de Córdoba (2011- present)
- Position: Postdoctoral Fellow
Advisor: María Julia Cambiasso, PhD
Institution: Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC-CONICET-UNC. Córdoba, Argentina (2016)
- Position: PhD Fellow
Advisor: María Julia Cambiasso, PhD
Institution: Instituto de Investigación Médica Mercedes y Martín Ferreyra, INIMEC-CONICET-UNC. Córdoba, Argentina (2010-2015)

- Position: Research Assistant (research stay)
Advisor: Luis Miguel García-Segura, PhD
Institution: Instituto Cajal, CSIC. Madrid, Spain (2014-2015)
- Position: Undergraduate student researcher
Advisor: Nelia Vermouth, PhD
Institution: Universidad Nacional de Córdoba, Córdoba, Argentina (2005-2007)

FELLOWSHIPS AND AWARDS

- **Research Initiation Fellowship.** Research fellowship for undergraduates (2006 - 2007)
- **Doctoral Fellowship Type I.** Research fellowship. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). Argentina (2010 - 2013)
- **Ricardo Miledi Neuroscience Training Program.** SfN. Society for Neuroscience. (2011)
- **Hugo Arechiga Fellowship.** Grass Foundation. Travel Award. (2011)
- **Doctoral Fellowship Type II.** Research fellowship. Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). Argentina (2013-2015)
- **SAFIS** (Argentine Society for Physiology). Travel award. (2013)
- **“i-COOP+”** Research fellowship. Agencia Nacional Consejo Superior de Investigaciones Científicas (CSIC), Spain. (2014-2015)
- **Postdoc Fellowship** Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET). Argentina (2016)
- **SfN-IBRO** Travel Award (2016)
- **Next Generation Postdoctoral Scholar in Neuroscience.** Neuroscience Institute. Georgia State University. (2016-2018)

PUBLICATIONS

- Cambiasso MJ, **Cisternas CD**, Ruiz-Palmero I, Scerbo MJ, Arevalo MA, Azcoitia I, García-Segura LM. (2017) Interaction of sex chromosome complement, gonadal hormones and neuronal steroid synthesis on the sexual differentiation of mammalian neurons. *J Neurogenetics*. (4):300-306.
- **Cisternas CD**, García-Segura LM, Cambiasso MJ. Hormonal and genetic factors interact to control aromatase expression in the developing brain. *J Neuroendocrinol*. In press
- **Cisternas CD**, Cabrera Zapata LE, Arevalo MA, García-Segura LM, Cambiasso MJ. (2017) Regulation of aromatase expression in the anterior amygdala of the developing mouse brain depends on ER β and sex chromosome complement. *Sci Rep*. 7(1):5320.

- Dadam FM, **Cisternas CD**, Macchione AF, Godino A, Antunes-Rodrigues J, Cambiasso MJ, Vivas LM, Caeiro XE. (2017) Sex chromosome complement involvement in angiotensin receptor sexual dimorphism. *Mol Cell Endocrinol.*15;447:98-105.
- **Cisternas CD**, Tome K, Caeiro XE, Dadam FM, García-Segura LM, Cambiasso MJ (2015) Sex chromosome complement determines sex differences in aromatase expression and regulation in the stria terminalis and anterior amygdala of developing brain. *Mol Cell Endocrinol* 414:99-110.
- Dadam FM, Caeiro XE, **Cisternas CD**, Macchione AF, Cambiasso MJ and Vivas L (2014) Effect of sex chromosome complement on sodium appetite and Fos-immunoreactivity induced by sodium depletion. *Am J Physiol Regul Integr Comp Physiol* 306: R175–R184.
- Scerbo MJ, Freire-Regatillo A, **Cisternas CD**, Brunotto M, Arevalo MA, Garcia-Segura LM and Cambiasso MJ (2014) Neurogenin 3 mediates sex chromosome effects on the generation of sex differences in hypothalamic neuronal development. *Front Cell Neurosci.* 8:188.
- **Cisternas CD**, Compagnucci MV, Conti NR, Ponce RH, Vermouth NT (2010) Protective effect of maternal prenatal melatonin administration on rat pups born to mothers submitted to constant light during gestation. *Brazilian Journal of Medical and Biological Research* 43: 874-882.

Published Abstracts and Conference Presentations

- **Cisternas CD**, Arevalo MA, Garcia-Segura LM, Cambiasso MJ. Role of sex chromosome complement in the regulation of aromatase expression in developing mice brain. Society for Neuroscience, Program No. 163.09. 2011 Neuroscience Meeting Planner. San Diego, CA: Society for Neuroscience, 2016. Online.
- **Cisternas CD**, Arevalo MA, Garcia-Segura LM, Cambiasso MJ. Role of X-linked genes on sex differences in neurogenin 3 expression in developing hypothalamic neurons. 2nd Meeting of Federation of Latin-American and Caribbean Neuroscience Societies (FALAN). Buenos Aires, Argentina. October 2016.
- Tome K; **Cisternas CD**; Scerbo MJ; Cambiasso MJ. Abolition of the sex Difference in Ngn3 by Estradiol is depending on sex chromosome complement. Argentine Society for Neuroscience (SAN). Córdoba. Argentina. October 2014.
- **Cisternas CD**, Tome K, Cambiasso MJ. Expression of key steroidogenic enzymes in developing brain: hormonal compensation of sex chromosomes-induced sex differences. Argentine Society for Neuroscience (SAN). Córdoba. Argentina. October 2014.
- **Cisternas, CD**; Caeiro X.; Mir F.; Cambiasso M. Sex differences in the expression of genes for aromatase and androgen and estrogen receptors in brain development before masculinization by gonadal steroids in utero: the role of sex chromosome complement. Argentine Society for Clinical Research (SAIC). Mar del Plata, Argentina. November 2013.
- **Cisternas, CD**; Tomé, K; Scerbo, MJ; Cambiasso, MJ. Sex differences in Ngn3 expression in primary hypothalamic neurons is determined by sex chromosomes. Argentine Society for Neuroscience (SAN). Córdoba. Argentina. October 2013.

- Dadam F, Caeiro, X; **Cisternas CD**, Vivas L, Cambiasso MJ. Participation of sex chromosome complement in brain pattern activation during acute sodium depletion. Argentine Society for Neuroscience (SAN). Córdoba. Argentina. October 2011.
- **Cisternas, CD**; Caeiro, X; Mir, F; Scerbo, MJ; Garcia-Segura, LM; Cambiasso, MJ. Participation of sex chromosome complement in the dimorphic expression of embryonic brain aromatase. Program No. 499.09. 2011 Neuroscience Meeting Planner. Washington, DC: Society for Neuroscience, 2011. Online.
- Scerbo, MJ; Gorosito, S; Gutierrez, S; Mir, FR; **Cisternas, CD**; Caeiro, X, Torres, A, Cambiasso, MJ. Estradiol induces membrane localization of the estrogen receptor and association with Shc in neurons. Abstract published in Biocell 34 (Suppl.):130. 2010.
- **Cisternas, CD**; Caeiro, X; Mir, F; Scerbo, MJ; Cambiasso MJ. Participation of sex chromosome complement in the dimorphic expression of brain aromatase. Argentine Society for Neuroscience (SAN). Córdoba. Argentina. October 2010.
- Ponce RH, **Cisternas CD**, Vaqué AM, Compagnucci MV, Abramor NF, Vermouth NT. Protective effect of melatonin in pregnant rats. Abstract published in Biocell 33(3): A247, 2009.
- **Cisternas CD**, Compagnucci MV, Ponce RH and Vermouth NT. Melatonin administration to mothers suppresses the effect of the prenatal varied chronic stress on LDH and MDH circadian rhythms of rat testis. Abstract published in Biocell 32(1):98, 2008.
- Compagnucci MV, **Cisternas CD**, Ponce RH and Vermouth NT. Maternal melatonin restores the effects of prenatal constant light on MDH and LDH circadian rhythms of rat testis. Abstract published in Biocell 32(1):99, 2008.
- Compagnucci MV, **Cisternas CD**, Vaqué AM, Ponce RH and Vermouth NT. Maternal melatonin attenuates the demasculinized copulatory behavior of prenatally constant light exposed male rats. Abstract published in Biocell 32(1):99, 2008.
- Compagnucci MV, Conti NR, Vaqué AM, **Cisternas CD**, Ponce RH, Vermouth NT. Prenatal chronic constant light and long term behaviour: melatonin effect during gestation. Abstract published in Medicina (p ISSN 0025-7680) 67, issue 3, 72 (p 2660), 2008.

ADDITIONAL PARTICIPATION IN CONGRESSES AND SYMPOSIA

- May 2017. Neuroscience Institute Breakfast & Lectures Series (NIBL). Georgia State University. Type of participation: **Talk**.
- November 2016. Annual Meeting of Society for Neuroscience. San Diego, CA. USA. Type of participation: **Poster**.
- October 2016. 2nd Meeting of Federation of Latin-American and Caribbean Neuroscience Societies (FALAN). Buenos Aires, Argentina. Type of participation: **Poster**.
- November 2013. LVIII Annual Meeting of Argentine Society for Clinical Research. Mar del Plata, Argentina. Type of participation: **Poster**.

- September 2013: XXVIII Annual Meeting of Argentine Society for Neuroscience (SAN). Huerta Grande, Córdoba. Argentina. Type of participation: **Poster**.
- November 2011: 41st Society for Neuroscience Annual Meeting. Washington DC. USA. Type of participation: **Poster**.
- October 2010. II Joint Meeting of Neuroscience. Type of Scientific Meeting: Congress. Huerta Grande, Córdoba. Type of participation: **Poster**.
- September 2010. “Brain Sexual Differentiation”. INIMEC Symposium. Córdoba. Type of participation: **Talk**.
- August 2009. XVII Meeting of Biology Society of Córdoba. Type of Scientific Meeting: Congress. Huerta Grande, Córdoba. Type of participation: **Poster**.
- April 2009. 1st Meeting of Young Researchers in Neuroscience of Cordoba: an interdisciplinary overview. College of Mathematics, Astronomy and Physics. University of Cordoba. Cordoba, Argentina. Type of participation: **Assistant**.
- June 2009. Prenatal adverse stimuli that affect the mechanism of maternal synchronization of fetal clock. Internal Symposium of Neurophysiology Laboratory. INIMEC. Type of participation: **Talk**.
- August 2007. First Meeting of Biology Societies of Argentina. Type of Scientific Meeting: Congress. Huerta Grande, Córdoba. Type of participation: **Poster**.

TEACHING AND MENTORING

- **Assistant Professor** in Departamento de Biología Oral. Course: Introduction to Biological Physics and Chemistry. Facultad de Odontología. Universidad Nacional de Córdoba. (2011- Present).
- **Co-Advisor of Undergraduate student:** Karina Tomé. Title: Study of the expression of proneural transcription factor neurogenin3 in a transgenic mouse model for the Sry gene. Facultad de Ciencias Exactas, Físicas y Naturales. Universidad Nacional de Córdoba. Argentina. 2013-2014
- **Teaching Assistant** for the pre-grade course: Introducción a la Física y Química Biológicas.. Facultad de Odontología. Universidad Nacional de Cordoba. Periods: 2008, 2009 and 2010.
- **Student Assistant** for the pre-grade course: Animal Physiology. Facultad de Ciencias Exactas, Físicas y Naturales. Universidad Nacional de Cordoba. Periods: 2005 and 2006.
- **Workshop Facilitator for the course** “Designing Molecular Tools for the Study of Integrative Physiology”. Dr. L Vivas (INIMEC-CONICET-UNC. Argentina) and Drs. WK Samson and GLC Yosten (Saint Louis University School of Medicine, St. Louis, US). December 2016.

AFFILIATIONS

- International Society for Neurochemistry (ISN). 2012-present.
- Argentine Society for Neurosciences (SAN). 2013-present.
- Society for Neuroscience. 2011-present.

- International Neuroendocrine Federation. 2015-present.
- Organization for the Study of Sex Differences (OSSD). (2017-present).

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