

CURRICULUM VITAE

PERSONAL DATA

Last Name Dagnino	Mother's name Subiabre	Name Alexies	ID 11.925.826-k
Birth date February 9, 1972	Age 54	Gender (M o F) M	Nationality Chilean
Title Biochemist		Academic Degree Ph.D. in Biomedical Sciences	
Contacts		Street Address (street, N°, locality, postal code, city, country) Gran Bretaña 1111, Playa Ancha, Valparaíso, Chile, Postal code: 2360102 alexies.dagnino@uv.cl; www.stress.cl	

ACADEMIC AND PROFESSIONAL EXPERIENCE

Academic Degrees:

- 1999-2003: Ph.D. in Biomedical Sciences, Universidad de Chile.
1991-1999: Biochemist (equivalent to MS in Biochemistry), Universidad Austral de Chile.

Training and Employment:

- 2011 - Present. Full Professor, Institute of Physiology, Faculty of Sciences, Universidad de Valparaíso. Valparaíso, Chile.
2006 - 2010 Associated Professor, Department of Biomedical Sciences, Faculty of Medicine, Universidad Católica del Norte. Coquimbo, Chile.
2009: Visiting Scientist, Sapolsky Lab, Stanford University, USA.
2008: Visiting Scientist, Atzori Lab, University of Texas at Dallas, USA.
2004-2005: Postdoctoral Training, Department of Psychiatry, Pontificia Universidad Católica de Chile, Advisor: Francisco Aboitiz (ICM Scholarship).
2002: Visiting student, Department of Pharmacology, East Tennessee State University, USA (MECESUP Fellowship).

Awards & Fellowships:

- 2023 Global Fellowships Scheme, University of Brighton, United Kingdom.
(<https://www.brighton.ac.uk/research/research-environment/global-fellowship-scheme/global-fellowship-scheme.aspx>)
2019 IBRO Travel Grant to attend 10th IBRO World Congress, Daegu, Korea.
2009 Award for "Research or relevant artistic creation of the Universidad Católica del Norte". Chile.
2002 PhD fellowship CONICYT, Chile.
2001 MECESUP Fellowship for Visiting Researcher at East Tennessee State University, USA.

Neuroscience Consultancy:

- 2023-Present. NeuroSci Ltd, Registered in England and Wales No. [6974878](http://neurosci.co.uk/)
(<http://neurosci.co.uk/>)

Grants (last 5 years):

Ongoing

- 1) **2026-2030.** "Pharmacological modulation of stress resilience in the ventral hippocampus of females and males: New frontiers in glucocorticoid receptor research". Grant: FONDECYT Regular N° 1260330. Principal Investigator.
- 2) **2026-2027.** "Stress resilience and cancer progression". R&KE Development Fund, Co-Investigator; Grant: AH/X003477/1, AHRC -University of Brighton, United Kingdom.
- 3) **2025-2027.** "Understanding the neural mechanisms underlying social buffering". The Japan Society for the Promotion of Science Bilateral Program Grant Number: JPJSBP120259911. Co-Investigator.
- 4) **2026.** "A novel pharmacological approach to improve stress resilience and depression targeting glucocorticoid and connexin hemichannel-dependent neuroinflammation". Collaboration Grant N°

PVM2026_008, Co-Investigator. Millennium Institute CINV N° ICN2025_026.

- 5) **2026.** “Biomarkers and Psychometric Measurements of a Mental Health Literacy-Based Intervention Targeting Primary School Students in Valparaíso”. Collaboration Grant N° PVM2026_022, Co-Investigator. Millennium Institute CINV N° ICN2025_026.

Past

- 1) **2024-2025.** “Millennium Institute for Depression and Personality Research (MIDAP)”. National Agency for Research and Development, Chile (ANID), Grant N° AIM23-0002. Principal Investigator.
- 2) **2023-2024.** “Impact of stress resilience on cancer progression”. Global Fellowships Scheme, University of Brighton, UK. Grant N° AP02 3010 G2452. Principal Investigator.
- 3) **2022-2024.** “Strategies for coping with stress during aging and its impact on memory”. Consorcio de Universidades del Estado (CUECH) RED21993. Grant N° CIES008. Principal Investigator.
- 4) **2022-2026.** “Impact of the high n-6 polyunsaturated fatty acid intake and/or maternal obesity on neurodevelopment. Is there an essential contribution of dietary n-3 fatty acids?”. FONDECYT Regular N° 1221098. Co-Investigator.
- 5) **2021-2025.** “Hyperandrogenism during prenatal and pubertal development alters functional brain networks compromising social cognition in daughters of women with polycystic ovary syndrome: a doble hit hypothesis”. FONDECYT Regular N° 1210261. Co-Investigator.

Articles published between 2021 and 2026 (*Corresponding Author):

- 1) Iturra-Mena AM, Chang S, Bel-Gaete V, Silva JR, **Dagnino-Subiabre A. (2026).** Social fear memory as a framework for understanding social defeat stress and psychopathology. *Neurosci Biobehav Rev.* 189:106860. doi: 10.1016/j.neubiorev.2026.106860.
- 2) Pablo A, Lizana PA, Gálvez-Ojeda L, **Dagnino-Subiabre A**, Lera L, Kuehnle-Carreño I, Clarke G, Bravo JA, Julio-Pieper M. Nocturnal salivary cortisol and perceived stress in schoolteachers: A pilot study. **(2026).** *Frontiers in Psychiatry.* 17:1772876. doi: 10.3389/fpsy.2026.1772876.
- 3) Beyer MP, Mercado-Lopez L, Farias C, Carrasco-Gutiérrez R, Espinosa A, **Dagnino-Subiabre A**, Muñoz Y, E IA, Videla LA, Valenzuela R. Impact of perinatal α -linolenic acid deficiency combined with high-fat diet consumption on tissue-specific fatty acid profiles in rats: Maternal and offspring analysis. **(2026).** *Prostaglandins Leukot Essent Fatty Acids.* 2026 Jan 19;208:102723. doi: 10.1016/j.plefa.2026.102723.
- 4) Del Río JP, Tsompanidis A, Gaspar P, Maturana A, Rojas G, **Dagnino-Subiabre A**, Olea A, Maliqueo M, Echiburú B, Ladrón de Guevara A, Montiel J, Baron-Cohen S, Crisosto N. Women with polycystic ovary syndrome (PCOS): Likelihood of cooccurring neuropsychiatric conditions and the dual hit hypothesis. **(2025).** *Frontiers in Neuroendocrinology.* In press, doi: 10.1016/j.yfrne.2025.101188.
- 5) Zúñiga-Hernández J, Farias C, Espinosa A, Mercado L, **Dagnino-Subiabre A**, Campo AD, Illesca P, Videla LA, Valenzuela R. Modulation of Δ 5- and Δ 6-desaturases in the brain-liver axis. *Nutrition.* **(2025).** 131:112629. doi: 10.1016/j.nut.2024.112629.
- 6) Muñoz Y, Kaune H, **Dagnino-Subiabre A**, Cruz G, Toledo J, Valenzuela R, Moraga R, Tabilo L, Flores C, Muñoz A, Crisosto N, Montiel JF, Maliqueo M. Fish Oil Supplementation Attenuates Offspring's Neurodevelopmental Changes Induced by a Maternal High-Fat Diet in a Rat Model. *Nutrients.* **(2025).** 17(10):1741. doi: 10.3390/nu17101741.
- 7) Mercado-López L, Muñoz Y, Farias C, Beyer MP, Carrasco-Gutiérrez R, Caicedo-Paz AV, **Dagnino-Subiabre A**, Espinosa A, Valenzuela R. High-Fat Diet in Perinatal Period Promotes Liver Steatosis and Low Desaturation Capacity of Polyunsaturated Fatty Acids in Dams: A Link with Anxiety-Like Behavior in Rats. *Nutrients.* **(2025).** 17(7):1180. doi: 10.3390/nu17071180.
- 8) Terreros G, Pérez MÁ, Muñoz-LLanco P, D'Espessailles A, Martínez EA, **Dagnino-Subiabre A. (2024).** The Neuroprotective Role of Quinoa (*Chenopodium quinoa*, Wild) Supplementation in Hippocampal Morphology and Memory of Adolescent Stressed Rats. *Nutrients.* 16(3):381. doi: 10.3390/nu16030381.
- 9) Casanova MLH, Luhr JH, Castillo-Aguilar M, Castillo-Aguilar M, Perez-Chacón M, King KH, **Dagnino-Subiabre A**, Guzmán-Muñoz E, Núñez-Espinosa C. **(2024).** The High Sensitivity of Sensory Processing and its relationship with postural balance in older people. *RETOS*, issue 58, page 308-314.

- 10) Rojas-Thomas F, Artigas C, Wainstein G, Morales JP, Arriagada M, Soto D, **Dagnino-Subiabre A**, Silva J, Lopez V. (2023). Impact of acute psychosocial stress on attentional control in humans. A study of evoked potentials and pupillary response. *Neurobiol Stress*. 25:100551. doi: 10.1016/j.ynstr.2023.100551.
- 11) Escobar AP, Bonansco C, Cruz G, **Dagnino-Subiabre A**, Fuenzalida M, Negrón I, Sotomayor-Zárate R, Martínez-Pinto J, Jorquera G. Central and Peripheral Inflammation: A Common Factor Causing Addictive and Neurological Disorders and Aging-Related Pathologies. (2023). *Int J Mol Sci*. 24(12):10083. doi: 10.3390/ijms241210083.
- 12) Burgueño AL, Astiz M, **Dagnino-Subiabre A**. (2022). Editorial: Early life stress and its impact on physiological fitness. *Front Physiol*. 13:1037409. doi: 10.3389/fphys.2022.1037409.
- 13) Alvarado-Aravena C, Arriaza K, Castillo-Aguilar M, Flores K, **Dagnino-Subiabre A**, Estrada-Goic C, Núñez-Espinosa C. (2022). Effect of Confinement on Anxiety Symptoms and Sleep Quality during the COVID-19 Pandemic. *Behav Sci (Basel)*. 12(10):398. doi: 10.3390/bs12100398.
- 14) **Dagnino-Subiabre A***. (2022). Resilience to stress and social touch. *Current Opinion in Behavioral Sciences*. Volume 43, Pages 75-79. doi: 10.1016/j.cobeha.2021.08.011
- 15) Walker SC, Cavieres A, Peñaloza-Sancho V, El-Deredy W, McGlone FP, **Dagnino-Subiabre A***. (2022). C-low threshold mechanosensitive targeted dynamic touch modulates stress resilience in rats exposed to chronic mild stress. *Eur J Neurosci*. 55(9-10):2925-2938. doi: 10.1111/ejn.14951..
- 16) Bravo-Tobar ID, Fernández P, Sáez JC, **Dagnino-Subiabre A***. (2021). Long-term effects of stress resilience: Hippocampal neuroinflammation and behavioral approach in male rats. *J Neurosci Res*. 99(10):2493-2510. doi: 10.1002/jnr.24902.
- 17) Peñaloza-Sancho V, Pérez-Valenzuela C, Gonzalez C, Jujihara G, Bustos P, **Dagnino-Subiabre A***. (2021). Cannabinoid receptor type 1 modulates the effects of polyunsaturated fatty acids on memory of stressed rats. *Nutritional Neuroscience*. 24(8):583-600. doi: 10.1080/1028415X.2019.1659561.
- 18) **Dagnino-Subiabre A***. (2021). Stress and Western diets increase vulnerability to neuropsychiatric disorders: A common mechanism. *Nutritional Neuroscience*. 24(8):624-634. doi: 10.1080/1028415X.2019.1661651.

Guest Editor (Last 5 years):

Frontiers in Physiology (ISI: 4.566)

Research Topic:

Early Life Stress and Its Impact on Physiological Fitness (<https://www.frontiersin.org/research-topics/22321/early-life-stress-and-its-impact-on-physiological-fitness>).

International and National Meetings (Last 5 years):

Keynote Speaker:

- 1) **Alexies Dagnino**. "Decoding brain mechanism of stress resilience: a new approach to mental illness". International Meeting Advances in Neuropathology: From Fundamental Research to Medical Practice. January 15-17, 2025. Conference Hall "Hilda Cid", University of Concepción, Concepción, Chile.
- 2) **Alexies Dagnino**. "Pharmacological modulation of stress resilience: a new frontier for biomarkers in psychiatry". International Workshop "Biomarkers in Psychiatry and Gynecology: From Discovery to Diagnosis". 2 – 3 December, 2024. IMPACT Centre (ANID Basal Center), Universidad de Los Andes, Santiago, Chile. (<https://centroimpact.cl/biomarkers-2024/>)
- 3) **Alexies Dagnino**. "Neurobiology of stress resilience: a new frontier for mental illness". IBEM International Workshop: Stress and Resilience: Towards evidence-based mental health management". November 28, 2024. Instituto de Bienestar Emocional, Universidad del Desarrollo, Santiago, Chile.
- 4) **Alexies Dagnino**. "Resilience and vulnerability to stress during the prepuberty period", 3rd LATBrain Symposium: "Current state of research in Latin America on the problems of pre- and postnatal development of the central nervous system" held in virtual mode on

November 23 and 24, 2023.

- 5) **Alexies Dagnino.** "Role of CORT113176 on resilience to stress: A new approach to depressive disorders", Corcept Research Conference. September 14-17, 2022. The Ritz-Carlton Half Moon Bay, San Francisco, California, USA.
- 6) **Alexies Dagnino.** Effects of stress on sensory systems: an approach to study a common origin for mood disorders and dementia. "3rd Edition of Dementia & Neurology Webinar". MAY 26, 2021. St. John of God Hospital, Italy.
- 7) **Alexies Dagnino.** Long-term effects of stress resilience on neuroinflammation and behavior. "1st International Dr. Safiye Ali Congress in Health Sciences". August 6, 2021, Duzce, Turkey.
- 8) **Alexies Dagnino.** Resilience to Stress and Neuroinflammation. "4th International Conference on Neurology and Brain Disorders", September 10, 2021. Rome, Italy.
- 9) **Alexies Dagnino.** Resilience to stress and neuropsychiatric disorders. Second Symposium of Neuroscience, November 6, 2020, Bogota, Colombia.

International Seminars:

- 6) **Alexies Dagnino.** Neurobiology of Stress Resilience and Social Stimulation. "Liverpool Neuroscience Group". 27th January 2021, Liverpool, United Kingdom.
- 7) **Alexies Dagnino.** C low-threshold mechanoreceptors in regulating resilience to stress in rats. Somatosensory journal club (<https://somaffect.org/>). 5th October 2020. Sweden and United Kingdom.

Symposium Talks:

- 8) **Alexies Dagnino.** Symposium (Chair): "Dynamics of Social Behavior in Rodents - Evolution and Neural Correlates". Talk: "Role of social behavior and memory on resilience to stress". The IBNS 33rd Annual Meeting, Westin Playa Bonita June 11-16, 2024, Panama City, Panama.
- 9) **Alexies Dagnino.** Symposium (Chair): "Decoding Brain Mechanisms of Stress Resilience". Talk: "Role of glucocorticoid and mineralocorticoid receptors balance on stress resilience". XX Annual Meeting of the Chilean Society for Neuroscience, October 23-25, 2024. Hippocampus Hotel, Concón, Chile.
- 10) **Alexies Dagnino.** Symposium N° 6 "Neuronal Circuits and Behavior". Talk: "Role of stress resilience on social behavior and coping styles". XIX Annual Meeting of the Chilean Society for Neuroscience, La Serena, October 16-18, 2023. Chile.
- 11) **Alexies Dagnino.** Symposium N° 2 "Brain mechanisms associated to memory and psychiatric disorders". Talk: "Impact of Stress and Diet on Neuropsychiatric Disorders". XV Annual Meeting of the Chilean Society for Neuroscience, La Serena, November 5-7, 2019. Chile.
- 12) **Alexies Dagnino.** Chair of Symposium N° 6 "Stress, resilience and neuropsychiatric disorders". Talk: "Brain oscillations in stress and resilience". XIV Annual Meeting of the Chilean Society for Neuroscience, Puerto Varas, 20-22 de Noviembre de 2018.
- 13) **Dagnino-Subiabrea A.** Effects of chronic stress on neural oscillations in the amygdala during fear memory retrieval and anhedonic behavior. Symposium 7: Stress, memory, anxiety and food intake. XIII Annual meeting Chilean society for neuroscience. Castro, Chile, 1-3 de Octubre de 2017.
- 14) **Dagnino-Subiabrea A.** Cross-talks between stress and polyunsaturated fatty acids: role on depressive disorders. Symposium: "Neuropharmacology of Stress, Anxiety and Depression". XI Reunión Anual de la Sociedad Chilena de Neurociencia, XXXVII Congreso Anual de la Sociedad de Farmacología de Chile, XXX Reunión Anual de la Sociedad Chilena de Ciencias Fisiológicas. September 22-25, 2015, Coquimbo, Chile.

Poster Presentation:

- 15) **Dagnino-Subiabrea A.** Impact of Stress on Gamma Oscillations in the Rat Nucleus Accumbens During Spontaneous Social Interaction. 10th IBRO World Congress, September 21-25, 2019, Daegu, Korea.
- 16) **Dagnino-Subiabrea A.** Chronic unpredictable stress increases the power of 4-6 Hz oscillations in the rat basolateral amygdala during recall of fear memory. 11th FENS Forum of Neuroscience. July 7-11, 2018, Berlin, Germany.

- 17) Dagnino-Subiabrea A.** Endocannabinoid modulators and PUFAs regulate decision-making and attention in adolescent stressed rats. 47th Annual Meeting of the Society for Neuroscience. November 11-15, 2017, Washington, DC, USA.
- 18) Dagnino-Subiabrea A.** Cannabinoid receptor type 1 modulates the effects of polyunsaturated fatty acids on memory consolidation of stressed rats. 10th FENS Forum of Neuroscience. July 2-6, 2016, Copenhagen, Denmark.
- 19) Dagnino-Subiabrea A.** Anti-stress effects and memory enhancer properties of n-3 PUFA in stressed rats. 45th Annual Meeting of the Society for Neuroscience. October 17-21, 2015, Chicago, USA.
- 20) Dagnino-Subiabrea A.** Chronic stress impairs auditory attention and GABAergic synaptic transmission in the rat auditory cortex. 9th FENS Forum of Neuroscience. July 5-9, 2014, Milan, Italy.

Membership:

- Member of Directory Board, Chilean Society of Neuroscience (2019-2022)
- Founding member of Chilean Society of Neuroscience (2005-Present)
- Member of the Society for Neuroscience (2015- Present)
- Member of the International Behavioral Neuroscience Society (2023- Present)

Tutorial:

- Finished: 9 PhD in Neuroscience. 25 Master in Neuroscience. 1 postdoc.