

**CANDIDATE PROFILE****Giovane Galdino, Brazil**

Pain Medicine, Basic researcher

Please provide a brief description of your work and interest in the pain field.

I am the Head of the Neuroimmunobiology of Pain Laboratory at the Federal University of Alfenas, Brazil, where I lead preclinical research focused on chronic pain and analgesia. Our work is centered on three main areas: investigating the endogenous mechanisms underlying non-pharmacological pain treatments, such as physical exercise, TENS, electroacupuncture, and cryotherapy; studying neuroimmune mechanisms of nociceptive transmission at the spinal level, particularly glial cell activation and neuron-glia interactions; and exploring the role of the thalamus and supraspinal pathways in neuropathic pain. My interest in pain research began during my undergraduate studies and has remained the focus of my academic career. I am driven by the goal of understanding the mechanisms underlying nociception and analgesia to support the development of more effective therapies for chronic pain. More recently, our laboratory has investigated innovative therapeutic strategies, including intranasal nanoformulations. In preclinical models of neuropathic pain, we have demonstrated promising analgesic effects of intranasally administered cannabidiol and donepezil. I believe that my scientific background, leadership experience, and commitment to advancing pain research position me well to serve as an IASP Councilor. As a researcher, mentor, and academic leader, I have promoted scientific excellence, interdisciplinary collaboration, and the training of future pain scientists. I would welcome the opportunity to contribute to IASP's strategic goals and support initiatives that advance innovation, education, and evidence-based pain care worldwide.

Please provide a brief statement of why you are interested in running for Councilor—why would someone want to vote for you?

I have been an active IASP member since 2010 and have dedicated my academic career to advancing pain research. Over the past 13 years, I have closely followed and engaged with IASP initiatives, while participating in World Congresses and international neuropathic pain meetings. As a researcher, mentor, and academic leader, I have worked to promote scientific excellence, collaboration, and the development of early-career scientists. If elected as Councilor, I will bring an international perspective, a strong commitment to pain research and education, and a dedication to supporting IASP's mission to improve pain care worldwide.

Collaborative Leadership and Teamwork: Collaboration is key to the success of IASP's initiatives and programs. Can you share examples of your experience working collaboratively within diverse teams or committees to achieve common goals? How do you plan to foster collaboration among Council members and committees to drive impactful outcomes?

Collaboration has been a central component of my academic and leadership career. I currently serve as Coordinator of the Multicenter Graduate Program in Physiological Sciences, the first network-based graduate program of its kind in Brazil. This program brings together 14 universities across different regions of the country, creating opportunities for students and researchers from underserved areas to access high-quality graduate education and collaborative research. Leading this network has provided me with extensive experience in building consensus, coordinating diverse teams, and achieving shared academic and scientific goals. In addition, I serve on the Deliberative Council of the Brazilian Society of Physiology as a national representative, where I contribute to strategic discussions and initiatives that strengthen physiology research and education throughout Brazil. If elected as an IASP Councilor, I would use this experience to promote collaboration among Council members, committees,

and the broader pain community. I believe that open communication, regular virtual meetings, and active engagement across regions and disciplines are essential for achieving meaningful outcomes. As a representative from Latin America, I would also work to strengthen connections between IASP and researchers, clinicians, and trainees from underrepresented regions, helping ensure that diverse perspectives are included in decision-making processes. By fostering an inclusive, collaborative, and goal-oriented environment, I hope to contribute to initiatives that advance pain research, education, and patient care worldwide.

Experience in Financial Oversight and Governance: The Council plays a crucial role in overseeing the financial management and governance of IASP. Can you describe your experience in financial oversight and governance, particularly in reviewing budgets, financial reports, and implementing financial policies? How will you contribute to ensuring the fiscal health and accountability of the association?

As Head of the Neuroimmunobiology of Pain Laboratory and Coordinator of the Multicenter Graduate Program in Physiological Sciences at the Federal University of Alfenas, I have extensive experience in financial management, accountability, and governance within academic and research settings. Throughout my career, I have successfully secured and managed multiple competitive government research grants. These responsibilities have included budget planning, allocation of resources, monitoring expenditures, procurement processes, financial reporting, and compliance with funding agency regulations. Importantly, each grant requires detailed financial accountability and final reporting to ensure that resources are used efficiently and transparently. Over the past 13 years, I have obtained eight research grants, seven of which have already completed their financial reporting and accountability processes successfully. In addition, I was recently appointed by the Rector of my institution as Deputy Coordinator of a major infrastructure proposal submitted to a governmental funding agency to acquire high-value research equipment, further expanding my experience in financial planning and oversight. If elected as an IASP Councilor, I would contribute to maintaining the association's fiscal health by promoting transparency, accountability, and responsible resource management. I strongly believe that clear financial reporting, regular budget reviews, and open communication are essential for effective governance. Ensuring that financial information is accessible, understandable, and aligned with the organization's strategic priorities helps build trust among members and supports sustainable growth. I would be committed to helping IASP maintain the highest standards of financial stewardship while advancing its mission worldwide.

Global Engagement and Representation: Pain is a universal experience, and IASP's reach extends across diverse regions and communities worldwide. As a Councilor, how do you plan to engage with and represent the interests of the global pain community as a Councilor, ensuring inclusivity, diversity, and responsiveness to the needs of various stakeholders?

As a researcher, educator, and representative of a developing country, I bring a perspective that reflects the challenges and opportunities faced by many regions where pain research, education, and access to treatment still require significant advancement. Coming from Latin America, I understand the importance of ensuring that IASP's initiatives reach diverse communities and address the unique needs of regions with varying levels of resources, infrastructure, and expertise. If elected as a Councilor, I will work to strengthen engagement between IASP and researchers, clinicians, educators, and trainees from underrepresented and developing regions. I believe that fostering inclusion and diversity requires actively listening to local needs, encouraging broad participation in IASP programs, and creating opportunities for collaboration across countries and disciplines. My experience leading multicenter academic networks and collaborating with institutions from different regions has shown me the value of open communication, mutual respect, and shared goals. I would advocate for initiatives that expand educational opportunities, support emerging pain researchers and clinicians, and facilitate the exchange of knowledge between high-resource and low-resource settings. IASP has a unique role in connecting the global pain community. As a Councilor, I would be committed to helping ensure that all voices are heard and that the association remains responsive to the diverse needs of its members. By promoting inclusivity, collaboration, and equitable access to knowledge and resources, I hope to contribute to a stronger and more globally representative IASP.

IASP Involvement

- Member of the International Association for the Study of Pain (IASP) since 2010.
- Participant, IASP Pain Management Camp Latin America, 2014.
- Participant in IASP Special Interest Groups (SIGs):
 - Neuropathic Pain SIG
 - Musculoskeletal Pain SIG

CURRICULUM VITAE

NAME Giovane Galdino de Souza ORCID: https://orcid.org/0000-0002-1898-1973	POSITION TITLE Adjunct Professor Federal University of Alfenas, Brazil
--	--

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Alfenas/Brazil	B.Sc Physiotherapy	1999-2003	Physiotherapy
Faculty of Med. Sci. of Minas Gerais	Specialist in cardiac Rehabilitation	2004-2005	Physiotherapy
Federal University of Minas Gerais	M.Sc. in Pharmacology	2006-2008	Neurobiology of Pain
Federal University of Minas Gerais	Ph.D in Pharmacology	2008-2012	Neurobiology of Pain
University of São Paulo	Post-doctoral	2012-2013	Neurobiology of Pain
Federal University of Alfenas	Adjunct Professor	2013-to date	Neurobiology of Pain

A. Personal Statement

Dr. Giovane Galdino, PT, MSc, PhD, is a Professor at the Federal University of Alfenas (UNIFAL-MG), Brazil, and Head of the Neuroimmunobiology of Pain Laboratory. He has been an active member of the International Association for the Study of Pain (IASP) since 2010 and is also affiliated with the Society for Neuroscience and the International Brain Research Organization (IBRO).

Dr. Galdino earned his BSc in Physiotherapy, MSc in Pharmacology, and PhD in Pharmacology from the Federal University of Minas Gerais, followed by postdoctoral training at the University of São Paulo and the University of Campinas. His research career has been dedicated to understanding the mechanisms underlying pain modulation and analgesia, with a particular focus on chronic and neuropathic pain.

His research program investigates three major areas: (1) endogenous mechanisms involved in non-pharmacological pain treatments, including physical exercise, transcutaneous electrical nerve stimulation (TENS), electroacupuncture, and cryotherapy; (2) neuroimmune mechanisms of nociceptive transmission, particularly the role of glial cells and neuron–glia interactions at the spinal level; and (3) thalamic and supraspinal mechanisms involved in neuropathic pain.

Throughout his career, Dr. Galdino has published extensively on the involvement of the endocannabinoid, opioidergic, adrenergic, and nitric oxide/cGMP/KATP signaling pathways in pain modulation. More recently, his laboratory has explored innovative therapeutic approaches, including

intranasal nanoformulations of cannabidiol and donepezil, demonstrating promising analgesic effects in preclinical models of neuropathic pain.

Dr. Galdino has combined scientific productivity with academic leadership and mentorship. He is committed to fostering the development of the next generation of pain researchers through graduate training, collaborative research networks, and international scientific engagement. His experiences as a researcher, educator, and coordinator of multicenter academic programs have strengthened his ability to connect researchers across institutions and promote opportunities for students and early-career scientists in the field of pain.

B. Professional and Scientific Experience in the Field of Pain

- MSc in Pharmacology, Federal University of Minas Gerais (UFMG), Brazil. Dissertation: The Role of the Opioid System in Aerobic Resistance Exercise-Induced Antinociception in Rats.
- PhD in Pharmacology, Federal University of Minas Gerais (UFMG), Brazil. Thesis: Investigation of the Endocannabinoid, Nitrergic, and Noradrenergic Systems Involved in Aerobic Resistance Exercise-Induced Antinociception in Rats.
- Postdoctoral Fellowship**, University of São Paulo (USP), Brazil. Project: Role of Spinal MRP14 in the Development of Neuropathic Pain. Supervisor: Prof. Thiago Mattar Cunha, PhD.
- Member of the International Association for the Study of Pain (IASP) since 2010.
- Participant in IASP Special Interest Groups (SIGs):
Neuropathic Pain SIG
Musculoskeletal Pain SIG
- Participant, IASP Pain Management Camp Latin America, 2014.
- Head, Neuroimmunobiology of Pain Laboratory, Federal University of Alfenas (UNIFAL-MG), Brazil (2019–present).
- Coordinator, Multicenter Graduate Program in Physiological Sciences, Brazilian Physiological Society Network (2025–present).
- National Representative, Deliberative Council of the Brazilian Society of Physiology (current term).
- Vice-Coordinator, Physiology Outreach League, Federal University of Alfenas, promoting physiology and pain education to the general public.

C. Selected Peer Reviewed Publications

Most relevant to the current application

Rocha FS, Cardoso RR, Prado JP, Zavan B, Caixeta ES, Dos Santos RS, de Souza IFF, Nunes-Silva A, Romero TRL, Barchuk AR, Veras FP, Pereira GR, **Galdino G**. Nanostructured lipid carrier-mediated delivery of donepezil attenuates neuropathic pain via central cholinergic receptor modulation. J Pharm Pharmacol. 2026;78(2):rgag003.

Moraes TR, Veras FP, Barchuk AR, Nogueira ESC, Kanashiro A, **Galdino G**. Spinal HMGB1 participates in the early stages of paclitaxel-induced neuropathic pain via microglial TLR4 and RAGE activation. Front Immunol. 2024;15:1303937.

Santos RS, **Galdino GS**. Endogenous systems involved in exercise-induced analgesia. J. Physiol. Pharmacol. 2018, 63: 3-13.

Galdino GS, Romero TR, Silva JFP, AGUIAR DC, De Paula, AM, Cruz JS, Parrella C, Piscitelli F, Duarte IDG, Di Marzo V, Perez AC. Acute Resistance Exercise Induces Antinociception by Activation of the Endocannabinoid System in Rats. Anesth. Anal. 2014, 119:702-15. PMID: 24977916.

Silva CR, Melo BMS, Silva JR, Lopes AH, Pereira JA, Cecilio NT, Berlink J, **Souza GG**, Lucas G, Vogl T, Cunha FQ, Alves-Filho JC, Cunha TM. S100A9 plays a pivotal role in a mouse model of herpetic neuralgia via TLR4/TNF pathway. Brain Behav Immun. 2020;88:353-362.

D. Recent research Support

Role: Coordinator researcher

Granting Agency: Research Support Foundation of the State of Minas Gerais (FAPEMIG), Brazil

Grant number: 01/2024

Title: Effect of a Cannabidiol Nanoformulation on Glial Activation in the Ventral Posterolateral Nucleus of the Thalamus During Peripheral Neuropathic Pain: Role of P2X4 and P2X7 Receptors

Role: Coordinator researcher

Granting Agency: Research Support Foundation of the State of Minas Gerais (FAPEMIG), Brazil

Grant number: 17/2022

Title: Analgesic Potential of SARS-CoV-2 Spike Protein Peptides for the Treatment of Chronic Pain

Role: Coordinator researcher

Granting Agency: Research Support Foundation of the State of Minas Gerais (FAPEMIG), Brazil

Grant number: 001/2021

Title: Investigation of the Spinal Involvement of TLR4 and TRPV1 Receptors in the Activation of the PI3K/AKT/mTOR Pathway During Postoperative Pain in Mice.

Role: Coordinator researcher

Granting Agency: Ministry of Science, Technology and Innovation, Brazil

Grant number: 2021 AV02

Title Program: Corrective Maintenance of the Laser Scanning Confocal Microscope at the Federal University of Alfenas

E. Relevant Information

Leadership, Governance, and Financial Management Experience: Dr. Galdino has extensive experience in academic administration, governance, and financial oversight. He has coordinated multicenter academic and research programs involving multiple institutions, facilitating strategic planning, resource allocation, and collaborative decision-making. Throughout his career, he has successfully secured and managed several competitively funded research grants from governmental funding agencies, overseeing budget execution, procurement processes, financial reporting, and compliance with funding regulations. He has also participated in institutional and scientific society governance activities, contributing to policy implementation, program management, and accountability processes. These experiences have strengthened his commitment to transparency, responsible stewardship of resources, and evidence-based decision-making within scientific organizations.