ALACI
LATIN AMERICAN AND CARIBBEAN ASSOCIATION OF IMMUNOLOGY

Belo Horizonte, April 12, 2025

Dr. Joao Viola,
IUIS Secretary General

Dear Dr Viola,

I hope this message finds you well.

As President of the Latin American and Caribbean Immunology Association (ALACI), I am pleased to submit our nominations and endorsements for the upcoming IUIS elections, scheduled for August 2025.

These nominations were thoroughly discussed and unanimously approved by all National Societies of Latin America and the Caribbean during the ALACI General Assembly at the XIV ALACI Congress, held in Buenos Aires, Argentina, in November 2024.

We formally nominate and endorse the following candidates for IUIS leadership positions:

- **Prof. Emilio L. Malchiodi** – Candidate for the position of **IUIS Vice-President (2025–2028)**
- **Dr. Joao P. B. Viola** – Candidate for the position of **IUIS General Secretary (2025–2028)**

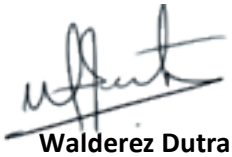
Additionally, we nominate and endorse the following immunologists as candidates for IUIS Council Members (2025–2028):

- **Dr. Mariana Maccioni** (for a second term).
- **Dr. Sergio Costa Oliveira** (for a second term).
- **Dr. Constantino III Roberto López-Macías** (replacing Dr. Leopoldo Santos-Argumedo, who has completed two terms).

The CVs and personal statements for all nominees are attached for your review.

Please confirm receipt of the documents, and do not hesitate to reach out if any additional information is required.

My very best,



Walderez Dutra
President, ALACI

São Paulo, April 1st, 2025

PERSONAL STATEMENT

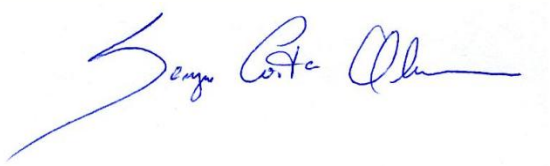
I am a Full Professor of Immunology at the University of São Paulo (USP), Brazil and my research interest is focused on defining the role of innate immunity and inflammation during the course of the intracellular bacterial infections. I got my PhD and postdoctoral training at the University of Wisconsin-Madison (USA). Currently, I am member of the Brazilian Academy of Science and member of the World Academy of Sciences (TWAS). So far, I have published more than 250 peer-reviewed articles with more than 14,000 citations and h-index 66. Additionally, I have trained 24 Master's and 25 PhD's students, and 42 post-doctoral fellows.

I have extensive experience in different areas of immunology as a scientist, but also demonstrates extensive experience in academic and administrative positions, being recognized not only in Brazil, but also internationally. I served as President of the Brazilian Society for Immunology in 2012-2013 and as a Council Member for IUIS 2022-2025, and now I am applying for reappointment. Currently, my laboratory is funded by the National Institutes of Health (NIH) and I have several scientific collaborations worldwide. In 2015, I was awarded with “Dr. Luis Federico Leloir” prize for scientists who contributed to foster international collaboration with science and technology in Argentina what demonstrates my engagement in spreading

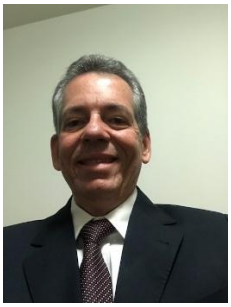
immunology in Latin American and Caribbean institutions. I serve as member of the Editorial board of several journals such as PLoS Neglected Tropical Diseases, Frontiers in Immunology, Innate Immunity and Microbes and Infection. As academic editor of Frontiers in Immunology, I work to improve the partnership between IUIS and Frontiers, creating new initiatives for disseminating the knowledge of immunology worldwide.

Overall, I accept the job as ALACI council member in IUIS and I will help together with my colleagues at IUIS to further disseminate immunology throughout the globe.

Sincerely,



Sergio Costa Oliveira
Professor of Immunology



BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.

Follow this format for each person. DO NOT EXCEED FIVE PAGES.

NAME: OLIVEIRA, SERGIO C

eRA COMMONS USER NAME (agency login): SCOZEUS

POSITION TITLE: Full Professor in Immunology

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Federal University of Bahia	DVM	1985	Veterinary Medicine
Federal University of Rio de Janeiro, Rio de Janeiro	MS	1991	Microbiology
University of Wisconsin-Madison, Madison, WI	PHD	1995	Immunology
University of Wisconsin-Madison, Madison, WI	Postdoctoral Fellow	1996	Immunology

A. Personal Statement

I am a Professor of Immunology at the University of São Paulo (USP), Brazil and my research interest is focused on defining the role of innate immunity and inflammation during the course of the intracellular bacterial infections and cancer.

B. Positions and Honors

Positions and Employment

1996 - 2006	Adjunct Professor in Immunology, Federal University of Minas Gerais, Brazil
2003 - 2005	Director of Innovation and Technology Transfer, Federal University of Minas Gerais, Brazil
2004 - 2005	Associate Dean of Research, Federal University of Minas Gerais, Brazil
2006 -2022	Full Professor in Immunology, Federal University of Minas Gerais, Brazil
2006 - 2010	Director of the Institute of Biological Sciences, Federal University of Minas Gerais, Brazil
2022-present	Full Professor in Immunology, University of São Paulo, Brazil

Other Experience and Professional Memberships

2000 - 2001	General Secretary, Brazilian Society for Immunology
2002 - present	Member of the Editorial Board, Microbes and Infection
2006 - 2007	General Secretary, Brazilian Society for Immunology
2007 - present	Associate Editor, PLoS Neglected Tropical Diseases
2009 – present	Associate Editor, Frontiers in Immunology
2009-present	Editorial Board of Microbes and Infection
2009 - present	Member, Brazilian Academy of Science
2010 - present	Member, The World Academy of Science (TWAS)
2012 - 2013	President, Brazilian Society for Immunology
2023-2025	Council Member of IUIS

Honors

1997	Outstanding Researcher Fellowship for productivity in research, Brazilian Ministry of Science & Technology (CNPq-1A)
2005	Medal of “Santos Dumont” for contribution in education science and technology

2008- Medal "Pirajá da Silva" given by the Brazilian Ministry of Health
2009- Member of the Brazilian Academy of Science
2010- Member of The World Academy of Sciences (TWAS)
2010- Medal of the National Order of Scientific Merit given by the President of Brazil

C. Contribution to Science

1. My early publications addressed the participation of innate immune receptors in bacterial infections, such as *Brucella abortus* and *Mycobacterium* spp. I dissected the role of TLRs and the adaptor molecules MyD88 and TRIF during *Brucella abortus* infection. Our group demonstrated that TLR2 clearly does not play any role in controlling *Brucella abortus* infection in vivo, whereas TLR4 and TLR9 has been shown to be required for clearance of this bacterium in infected mice. We reported the critical role of MyD88- and not TRIF-mediated signaling in dendritic cell maturation and in vivo resistance during *B. abortus* infection. Additionally, we demonstrated that TLR6, TLR9 and the signaling molecule IRAK-4 are important on sensing and protecting against mycobacterial infections.

    a. Campos MA, Rosinha GM, Almeida IC, Salgueiro XS, Jarvis BW, Splitter GA, Qureshi N, Bruna-Romero O, Gazzinelli RT, Oliveira SC. Role of Toll-like receptor 4 in induction of cell-mediated immunity and resistance to Brucella abortus infection in mice. Infect Immun. 2004 Jan;72(1):176-86. PubMed PMID: 14688095; PubMed Central PMCID: PMC344000.
    b. Macedo GC, Magnani DM, Carvalho NB, Bruna-Romero O, Gazzinelli RT, Oliveira SC. Central role of MyD88-dependent dendritic cell maturation and proinflammatory cytokine production to control Brucella abortus infection. J Immunol. 2008 Jan 15;180(2):1080-7. PubMed PMID: 18178848.
    c. Marinho FA, de Paula RR, Mendes AC, de Almeida LA, Gomes MT, Carvalho NB, Oliveira FS, Caliari MV, Oliveira SC. Toll-like receptor 6 senses Mycobacterium avium and is required for efficient control of mycobacterial infection. Eur J Immunol. 2013 Sep;43(9):2373-85. PubMed PMID: 23716075.
    d. Gomes MT, Campos PC, Pereira Gde S, Bartholomeu DC, Splitter G, Oliveira SC. TLR9 is required for MAPK/NF-κB activation but does not cooperate with TLR2 or TLR6 to induce host resistance to Brucella abortus. J Leukoc Biol. 2016 May;99(5):771-80. PMID: 26578650

2. Immunity against bacterial infection depends on the recognition of pathogen-associated molecular patterns (PAMPs) by pattern recognition receptors (PRRs). So, we decided to look more closely at the role of cytosolic receptors in sensing bacterial pathogens such as *Brucella abortus*. Our group has determined that signaling pathways triggered by bacterial DNA involves AIM2 and STING. Additionally, we determined that guanylate-binding proteins (GBPs) induced by STING is important to AIM2 and caspase-11 activation. Therefore, we determined a cross-talk between STING and inflammasome pathways during innate recognition of bacteria. The identification of host receptors that recognize pathogen-derived nucleic acids has revealed an essential role for sensing intracellular microbes and became the major research focus of our laboratory.

    a. Gomes MT, Campos PC, Oliveira FS, Corsetti PP, Bortoluci KR, Cunha LD, Zamboni DS, Oliveira SC. Critical role of ASC inflammasomes and bacterial type IV secretion system in caspase-1 activation and host innate resistance to Brucella abortus infection. J Immunol. 2013 Apr 1;190(7):3629-38. PubMed PMID: 23460746.
    b. Costa Franco MM, Marim F, Guimarães ES, Assis NRG, Cerqueira DM, Alves-Silva J, Harms J, Splitter G, Smith J, Kanneganti TD, de Queiroz NMGP, Gutman D, Barber GN, Oliveira *SC. Brucella abortus* Triggers a cGAS-Independent STING Pathway To Induce Host Protection That Involves Guanylate-

Binding Proteins and Inflammasome Activation. J Immunol. 2018 Jan 15;200(2):607-622. PubMed PMID: 29203515; PubMed Central PMCID: PMC5760291.

c. CERQUEIRA, D.M.; GOMES, M.T.R.; SILVA, A.L.N.; RUNGUE, M.; ASSIS, N.R.G.; GUIMARÃES, E.S.; MORAIS, S.B.; BROZ, P.; ZAMBONI, D.S.; **OLIVEIRA, S.C**. Guanylate-binding protein 5 licenses caspase11 for Gasdermin-D mediated host resistance to *Brucella abortus* infection. PLoS Pathogens, 2018, Volume 14 (12), e1007519.

d. Gomes MTR, Cerqueira DM, Guimarães ES, Campos PC, Oliveira SC. Guanylate-binding proteins at the crossroad of noncanonical inflammasome activation during bacterial infections. J Leukoc Biol. 2019 Mar 21. doi: 10.1002/JLB.4MR0119-013R. PMID: 30897250.

e. Gomes MTR, Guimarães ES, Marinho FV, Macedo I, Aguiar ERGR, Barber GN, Moraes-Vieira PMM, Alves-Filho JC, **Oliveira SC.** STING regulates metabolic reprogramming in macrophages via HIF-1α during Brucella infection.PLoS Pathog. 2021 May 14;17(5):e1009597. doi: 10.1371/journal.ppat.1009597.

3. Bacterial pathogens that have an intracellular life cycle have evolved several strategies to subvert host detection to generate niches that ensure their survival and persistence. Besides activation of the innate immune system to induce protection, our group has determined mechanisms by which *Brucella abortus* evades the host immune responses. More recently, we have described that *Brucella* modulates the inflammasome pathway. *Brucella* activates NLRP12 that negatively regulates proinflammatory cytokine production and host defense. Moreover, *Brucella* produces a nitric oxide metabolite that modulates IL-1β secretion by macrophages and resistance to infection. Further, we demonstrated that modulation of microtubules by *Brucella* TcpB protein affects several crucial steps of bacterial pathogenesis, including BCV maturation and intracellular survival. *Brucella* uniquely utilizes the Unfolded Protein Response (UPR) for its intracellular survival. Our team demonstrated that mice treated with UPR inhibitors are more resistant to infection, suggesting that UPR expression favors bacterial multiplication in the host.

a. Silveira TN, Gomes MT, Oliveira LS, Campos PC, Machado GG, Oliveira SC. NLRP12 negatively regulates proinflammatory cytokine production and host defense against *Brucella abortus*. Eur J Immunol. 2017 Jan;47(1):51-59. PMCID: PMC5233573.

b. Campos PC, Gomes MTR, Marinho FAV, Guimarães ES, Cruz MGFML, Oliveira SC. *Brucella abortus* nitric oxide metabolite regulates inflammasome activation and IL-1β secretion in murine macrophages. Eur J Immunol. 2019 Mar 28. doi: 10.1002/eji.201848016. PMID: 30919410.

c. Guimarães ES, Gomes MTR, Campos PC, Mansur DS, Dos Santos AA, Harms J, Splitter G, Smith JA, Barber GN, Oliveira SC. *Brucella abortus* Cyclic Dinucleotides Trigger STING-Dependent Unfolded Protein Response That Favors Bacterial Replication. J Immunol. 2019 May 1;202(9):2671-2681. PMCID: PMC6478548.

d. de Araujo ACVSC, de Queiroz NMGP, Marinho FV, Oliveira SC. Bacillus Calmette-Guérin-Trained Macrophages Elicit a Protective Inflammatory Response against the Pathogenic Bacteria Brucella abortus. J Immunol. 2023 Sep 1;211(5):791-803.

e. Gomes MTR, Guimarães ES, Oliveira SC. ZBP1 senses *Brucella abortus* DNA triggering type I interferon signaling pathway and unfolded protein response activation. Front Immunol. 2025 Jan 9;15:1511949. doi: 10.3389/fimmu.2024.1511949.

Summary:

I am a Full Professor of Immunology at the University of São Paulo, Brazil and my research interest is focused on defining the role of innate immunity and inflammation during the course of the intracellular bacterial infections. I got my PhD and postdoctoral training at the University of Wisconsin-Madison (USA). Currently, I am member

of the Brazilian Academy of Science and member of the World Academy of Sciences (TWAS). So far, I have published more than 250 peer-reviewed articles with more than 14,000 citations, h-index 66. Additionally, I have trained 24 Master's and 25 PhD's students, and 42 Post-doctoral fellows.

Complete List of Published Work in My Bibliography:
http://www.ncbi.nlm.nih.gov/myncbi/sergio.oliveira.1/bibliography/48868768/public/?sort=date&direction=ascending

Clara Hijano

From: Maria Bellio <mariabellioufrj@gmail.com>
Sent: Monday, 19 May 2025 00:26
To: IUIS
Cc: SBI - Sociedade Brasileira de Imunologia
Subject: [INFO-MAIL] Re: Last Call for Nominations: IUIS Executive Committee and Council (2025–2028)

Categories: Clara

Dear Emily Blitz,

Please find below our nomination for the following leadership positions:

2025-2028 Executive Committee
Vice-President: Dr. Emilio Malchiodi (Argentina)
Secretary General: Dr. João Paulo de Biaso Viola (Brazil)

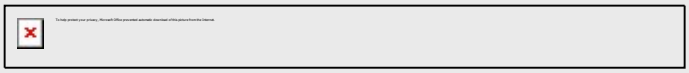
2025-2028 Council : Dr. Sergio Costa (Brazil)
Dr. Mariana Maccione (Argentina)

Best regards,

Maria Bellio, Ph.D
President
Brazilian Society of Immunology (SBI)

Em qua., 14 de mai. de 2025 às 10:00, IUIS Office <info@iuis.org> escreveu:

View this email in your browser



Last Call for Nominations:

IUIS Executive Committee and Council (2025-2028)

Dear IUIS Constituents,