



CURRICULUM VITÆ

RODRIGO LIGABUE BRAUN

★ May 4th, 1986
🇧🇷 Brazilian

+55 51 8197 6050
☎ +55 51 3516 6050
✉ ligabue.braun@gmail.com

Education & Training

2015-current	<u>Postdoc</u> in Biosciences - Biophysics Cbiot – UFRGS – Porto Alegre, BR
2014	<u>Postdoc</u> in Biosciences - Biophysics InCer – PUCRS – Porto Alegre, BR
2010-2014	<u>D.Sc</u> in Cellular & Molecular Biology PPGBCM - UFRGS – Porto Alegre, BR “Structural biology of ureases: Phylogeny, activation, derived peptides” Supervisors: Dr. Célia Regina Carlini, Dr. Hugo Verli
2013	<u>Internship</u> at Bioinorganic Chemistry Lab, Università di Bologna Supervisor: Dr. Stefano Ciurli
2009-2010	<u>M. Sc.</u> in Cellular & Molecular Biology PPGBCM - UFRGS – Porto Alegre, BR “Conformational characterization of <i>Canavalia ensiformis</i> urease” Supervisors: Dr. Célia Regina Carlini, Dr. Hugo Verli
2005-2008	<u>B. Sc.</u> In Biological Sciences – Emphasis: Molecular, Cellular and Functional UFRGS – Porto Alegre, BR “Ureases: A comparative analysis” Supervisors: Dr. Célia Regina Carlini, Dr. Evelyn Schroeder

Languages

Portuguese	Native speaker	French	Intermediate
English	Fluent	Italian	Basic skills
Spanish	Intermediate	Japanese	Basic skills

Research Articles

Ligabue-Braun, R; Sachett, L.; Pol-Fachin, L.; Verli, H. The calcium goes meow: Effects of ions and glycosylation on Fel d 1, the major cat allergen. PLoS One, 10, e0132311, 2015.

Ligabue-Braun, R; Carlini, CR. Poisonous birds: A timely review. Toxicon, 99, 102-108, 2015.

- Ligabue-Braun, R; Real-Guerra, R; Carlini, CR; Verli, H. Evidence-based docking of the urease activation complex. *Journal of Biomolecular Structure & Dynamics*, 31, 854-861, 2013.
- Ligabue-Braun, R; Andreis, FC; Verli, H; Carlini, CR. 3-to-1: unraveling structural transitions in ureases. *Naturwissenschaften*, 100, 459-467, 2013.
- Ligabue-Braun, R; Verli, H; Carlini, CR. Venomous mammals: A review. *Toxicon*, 59, 680-695, 2012.
 ► Awarded: 3rd “Hottest Article” of 2012 in the *Toxicon* journal, also awarded other 5 times in the “Hottest 25 Articles” (SciVerse ScienceDirect, Elsevier).
- Carlini, CR; Ligabue-Braun, R. Ureases as multifunctional toxic proteins: A review. *Toxicon*, 110, 90-109, 2016.
- Grunwald, MS; Ligabue-Braun, R; Souza, CS; Heimfarth, L; Verli, H; Gelain, DP; Moreira, JCF. Putative model for heat shock protein 70 complexation with receptor of advanced glycation end products through fluorescence proximity assays and normal mode analyses. *Cell Stress & Chaperones*, v. 22, 99-111, 2017.
- Martinelli, AH; Lopes, FC; Broll, V; Defferrari, MS; Ligabue-Braun, R; Kappaun, K; Tichota, DM; Fruttero, LL; Moyetta, NR; Demartini, DR; Postal, M; Silva, MM; Becker-Ritt, AB; Pasquali, G; Carlini, CR. Soybean ubiquitous urease with purification facilitator: An addition to the moonlighting studies toolbox. *Process Biochemistry*, 53, 245-258, 2017.
- Micheletto, YMS; Moro, CF; Lopes, FC; Ligabue-Braun, R; Martinelli, AH; Marques, CM; Schroder, AP; Carlini, CR; Silveira, NP. Interaction of jack bean (*Canavalia ensiformis*) urease and a derived peptide with lipid vesicles. *Colloids and Surfaces. B, Biointerfaces* 145, 576-585, 2016.
- Wiebke-Stohm, B; Ligabue-Braun, R; Rechenmacher, C; De Oliveira-Busatto, LA; Carlini, CRegina; Bodanese-Zanettini, MH. Structural and transcriptional characterization of a novel member of the soybean urease gene family. *Plant Physiology and Biochemistry*, 101, 96-104, 2016.
- Fernandes, CL; Ligabue-Braun, R; Verli, H. Structural glycobiology of human α 1 -acid glycoprotein and its implications for pharmacokinetics and inflammation. *Glycobiology*, 25, 1125-1133, 2015.
- Feder, V; Kmetzsch, L; Staats, CC ; Vidal-Figueiredo, N ; Ligabue-Braun, R; Carlini, CR; Vainstein, MH. *Cryptococcus gattii* urease as a virulence factor and the relevance of enzymatic activity in cryptococcosis pathogenesis. *The FEBS Journal*, 282, 1406-1418, 2015.
- Piovesan, AR; Martinelli, AHS; Ligabue-Braun, R; Schwartz, JL; Carlini, CR. *Canavalia ensiformis* urease, Jaburetox and derived peptides form ion channels in planar lipid bilayers. *Archives of Biochemistry and Biophysics*, 547, 6-17, 2014.
- Fauth, EVF; Cilli, EM; Ligabue-Braun, R; Verli, H. Differential effect of solution conditions on the conformation of the actinoporins Sticholysin II and Equinatoxin II. *Anais da Academia Brasileira de Ciências*, 86, 1949-1962, 2014.
- Martinelli, AHS; Kappaun, K; Ligabue-Braun, R; Defferrari, MS; Piovesan, AR; Stanisquaski, F; Demartini, DR; Dal Belo, CA; Almeida, CGM; Follmer, C; Verli, H; Carlini, CR; Pasquali, G. Structure-function studies on jaburetox, a recombinant insecticidal peptide derived from jack bean (*Canavalia ensiformis*) urease. *Biochimica et Biophysica Acta. G, General Subjects*, 1840, 935-944, 2014.
- Postal, M; Martinelli, AH; Becker-Ritt, AB; Ligabue-Braun, R; Demartini, DR; Ribeiro, SF; Pasquali, G; Gomes, VM; Carlini, CR. Antifungal properties of *Canavalia ensiformis* urease and derived peptides. *Peptides*, v. 38, 22-32, 2012.
- Marco-Salvadori, J; Defferrari, MS; Ligabue-Braun, R; Lau, EY; Salvadori, JR; Carlini, CR. Characterization of entomopathogenic nematodes and symbiotic bacteria active against *Spodoptera*

frugiperda (Lepidoptera: Noctuidae) and contribution of bacterial urease to the insecticidal effect. *Biological Control*, 63, 253-263, 2012.

Mulinari, F; Becker-Ritt, AB; Demartini, DR; Ligabue-Braun, R; Stanisquaski, F; Verli, H; Fragoso, RR; Schroeder, EK; Carlini, CR; Grossi-de-Sá, MF. Characterization of JBURE-IIb isoform of *Canavalia ensiformis* (L.) DC urease. *Biochimica et Biophysica Acta. Proteins and Proteomics*, 1814, 1758-1768, 2011.

■ Books & Book Chapters

Ligabue Braun, R; Carlini, CR. Moonlighting toxins: Ureases and beyond. In: *Plant Toxins Handbook*. Springer; 2017.

► Also Editor of “Plant Toxins Handbook”, Springer Nature Singapore. Editor-in-Chief: Gopalakrishnakone, P. 2017.

Ligabue Braun, R. Venom use in mammals: Evolutionary aspects. In: *Evolution of Venomous Animals and their Venoms*. Springer; 2016.