

Dra. Andresa Berretta

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Pharmaceutical Biochemist graduated from the **Faculty of Pharmaceutical Sciences of Ribeirão Preto (FCFRP), University of São Paulo (USP)** in 1999. She earned her Master's degree in Drugs and Medicines from the same faculty in 2002 with a focus on the "*Development and Characterization of Propolis Thermoreversible Gel for Wound Healing Treatments*". She completed her Doctorate in Medicines and Cosmetics at FCFRP in 2007, with a dissertation titled "*Pre-Clinical and Clinical Evaluation of Propolis Gel in Wound Healing of Burn Patients*". In 2013, she achieved her Post-Doctoral degree in Molecular Biology from USP, working on the "*Development and Characterization of a Propolis Mucoadhesive Gel for Vaginal Candidiasis*".

CNPq has supported several of her scientific projects, with 3 economic subsidy projects from FINEP and one bilateral cooperation project involving a company, foundation, and university. She has had some projects approved by FAPESP, the São Paulo State Research Agency in the program of innovation in Companies (PIPE Program). Andresa has published around 102 scientific articles in indexed journals, contributed to 5 book chapters, filed 9 patents (5 granted), and received awards in Brazil, Turkey, England, and China for her scientific contributions in bee products, particularly propolis extract.

Currently, she serves as the **Head of Research, Development, and Innovation at Apis Flora** and also holds the role of technical manager. She has been re-elected as the **Convenor of WG2 by ISO** member countries to lead the creation of the first international standard for propolis and propolis extract for the terms 2019-2023 and 2023-2026. Since 2019, she has been a **board member of the International Propolis Research Group** and will lead the **Propolis Group at the International Honey Commission starting in April 2024**. Andresa is a member of the Brazilian Association of Technical Standards (ABNT) on the Bee Products Committee (CE-089).

Andresa served as the **President of ABEMEL - Brazilian Association of Honey Exporters** from 2020 to 2023, having previously been Vice-President from 2016 to 2019, and is currently serving in this position again for the 2024-2025 period. In 2023, she took on the role of communication and marketing lead at the **Non-Governmental Organization Bee or not to Bee**. She was also elected to the second **Board of the Apitherapy Specialties Committee at the World Federation of Chinese Medicine Societies** for the 2023-2026 term.

Some publications in the field are presented below and the others can be accessed on <https://loop.frontiersin.org/people/1415631/overview> :

Berretta, A.A.; De Lima, J.A.; Falcão, S.I.; Calhella, R.; Amorim, N.A.; Gonçalves, I.S.; Zamarrenho, L.G.; Barud, H.d.S.; Bastos, J.K.; De Jong, D.; et al. Development and Characterization of High-Absorption Microencapsulated Organic Propolis EPP-AF® Extract (i-CAPs). *Molecules* 2023, 28, 7128. <https://doi.org/10.3390/molecules28207128>

Berretta, A.A.; Zamarrenho, L.G.; Correa, J.A.; De Lima, J.A.; Borini, G.B.; Ambrósio, S.R.; Barud, H.d.S.; Bastos, J.K.; De Jong, D. Development and Characterization of New Green Propolis Extract

Formulations as Promising Candidates to Substitute for Green Propolis Hydroalcoholic Extract. *Molecules* 2023, 28, 3510. <https://doi.org/10.3390/molecules28083510>

Silveira, M.A.D., De Jong, D., **Berretta, A.A.**, et al. Efficacy of Brazilian green propolis (EPP-AF®) as an adjunct treatment for hospitalized COVID-19 patients: A randomized, controlled clinical trial, *Biomedicine & Pharmacotherapy*, Volume 138, 2021, 111526, ISSN 0753-3322, <https://doi.org/10.1016/j.biopha.2021.111526> .

Berretta, A. A., Silveira, M.A.D., Capcha, J.M.C., De Jong, D. *Propolis and its potential against SARS-CoV-2 infection mechanisms and COVID-19 disease*. *Biomedicine & Pharmacotherapy*, Volume 131, 2020, 110622, ISSN 0753-3322, <https://doi.org/10.1016/j.biopha.2020.110622>.

Berretta, A.A., Arruda, C., Miguel, F.G., Baptista, N., Nascimento, A.P., Marquele-Oliveira, F., et al. Functional Properties of Brazilian Propolis: From Chemical Composition Until the Market [Internet]. *Superfood and Functional Food - An Overview of Their Processing and Utilization*. InTech; 2017. Available from: <http://dx.doi.org/10.5772/65932>