

Natália Bernardi Videira, ERT

Associate Toxicologist, ERT

Executive Summary:

- Biotechnologist with solid background with in vitro testing, with +10 years of bench experience.
- + 3 years of experience in R&D and innovation in biotechnology in human health.
- Experience in projects of drug discovery, in vitro pre-clinical efficacy and cytotoxicity assays, basic research, 2D and 3D cell culture, and alternative methods.
- Scientific writing of reports, projects, papers, reviews, book chapters, scientific dissemination.
- Critically evaluation of scientific literature.
- English – Fluent, Portuguese – Native, French – intermediary, Spanish – Basic.
- Member of the Brazilian Toxicology Society (SBTox) since jul/2022

Education:

08/2020 – 12/2020	Specialization in Clinical Research , Invitare (EaD – 160h), Brazil
02/2014 – 07/2018	PhD in Bioscience , State University of Campinas (Unicamp), Brazil
03/2010 – 12/2013	Biotechnology , Federal University of São Carlos (UFSCar), Brazil

Work History:

04/2022 – Present	Associate Toxicologist , Affygility Solutions <ul style="list-style-type: none">• Perform health-based exposure limits (ADE/OEL) reports for active pharmaceutical ingredients and other substances.
05/2021 – 03/2022	Product Safety Assessor , Natura Cosmetics, Cajamar – SP, Brazil <ul style="list-style-type: none">• Safety assessor (toxicology and e-fate) of ingredients for cosmetic products in Natura & Co, mainly involved with biodegradability assessment.• Critical evaluation of scientific literature and information on databases.• Meeting with members of Natura & Co companies.• Project organization, budget control, hiring of tests, results analysis.

- 07/2018 – 05/2021 **R&D Specialist**, Brazilian Biosciences National Laboratory (LNBio/CNPEN),
Campinas – SP, Brazil
- Involved in different projects of basic research and R&D and innovation in dermocosmetics, coagulation, diabetes, and metabolism.
 - Constant search and critical analysis of articles in scientific literature.
 - My main laboratory activities involved pre-clinical assays of cytotoxicity and biological dermo-cosmetic efficacy; 2D and 3D cell culture; alternative methods for experimental animals; protein expression and characterization.
- 03/2017 – 03/2018 **Visiting Researcher**, Center of Integrative Genomics (CIG), Université de Lausanne,
Lausanne, Switzerland
- Working on a project in skin health and repair, with human keratinocytes cell culture and animal models of wound healing.
- 02/2016 – 07/2016 **Teaching Assistant**, State University of Campinas (Unicamp), Brazil
- Teaching Assistant (with a scholarship) of Basic Genetics classes for +40 second-year students of Pharmacy, offering exercise lists for guided study, question & answer sessions, and a Molecular Biology Lecture.
- 03/2014 – 07/2018 **PhD Student**, Brazilian Biosciences National Laboratory (LNBio/CNPEN), Brazil
- Supervised by Dr Ana Carolina Migliorini Figueira at Spectroscopy and Calorimetry Laboratory at Brazilian National Laboratory of Bioscience (LNBio).
 - Recipient of a FAPESP Doctorate Fellowship in Brazil and a BEPE-FAPESP Fellowship for an international research internship in the Center for Integrative Genomics at the University of Lausanne in Switzerland.
 - Developed a medium-throughput screening for in vitro screening of drug candidates for a biological target.
 - Joined 2 collaborations projects, resulting in 2 published papers.
 - Organized, as part of a 5-person team, a 4-day symposium for 42 undergraduate and graduate students on pharmaceutical and health technologies and innovations, with an improvement of the participants' attendance in comparison with the last event (2015).

- Teaching and training of lab technicians, masters, and undergraduate students.
- Managing budgets skills acquired with purchasing, inventory, and organization of laboratory supplies.

07/2013 – 02/2014

Undergraduate Research Assistant, Brazilian Biosciences National Laboratory (LNBio/CNPEM), Brazil

- Supervised by Dr Ana Carolina Migliorini Figueira at Spectroscopy and Calorimetry Laboratory at Brazilian National Laboratory of Bioscience (LNBio).
- Recipient of an Undergraduate Fellowship by CNPq (ITI- B) for training in cell culture and protein expression and purification.
- Worked with a multidisciplinary team of researchers from different levels in a multiuser open laboratory.
- Skills: protein expression and purification; biophysics characterization of proteins (circular dichroism, dynamic light scattering, thermal shift assay); cell culture; gene reporter assays).

01/2012 – 06/2013

Undergraduate Research Assistant, Federal University of São Carlos (UFSCar), Brazil

- Supervised by Prof. Dra Heloísa Selistre Sobreiro de Araújo at Biochemistry and Molecular Biology Laboratory.
- Evaluation of a drug candidate on human endothelial cells (HMEC-1) for a project on cancer treatment.
- Presented the results in poster format for 2 conferences (1 international), and for the bachelor monograph exam (oral presentation and thesis).

04/2010 – 12/2011

Undergraduate Research Assistant, Federal University of São Carlos (UFSCar), Brazil

- Supervised by Prof. Dr. Flávio Henrique da Silva at Molecular Biology Laboratory.
- Recipient of an undergraduate fellowship by FUNDUNESP/BNDES to perform metagenomics analyses of a sugarcane fermentation bioreactor in

a collaboration project between an academic laboratory and an ethanol plant.

Training and Courses:

- 2022 **Summer School on Innovative Approaches in Science** – ASCCTOX (online)
- 2020 **Safety in Laboratories: Environmental and Occupational Aspects (60h)** – UNIFESP (Brazil)
- 2020 **Introduction to the Management of Innovation in Biodiversity Medicines (60h)** – FIOCRUZ (Brazil)
- 2020 **Skin permeation in vitro, ex vivo, in vivo, in silico: chemical aspects (4h)** – Brazilian Association of Cosmetology, ABC (Brazil)
- 2018 **Innovative in vitro methods for the assessment of dermal sensitization (40h)** – RENAMA/UFG (Brazil)
- 2018 **In vitro skin irritation assay according to TG OECD 439 (16h)** – EPISKIN Academy (Brazil)
- 2016 **Bioinformatics Summer School** – EMBL-EBI (UK)

ERT Certified

Publications:

DE OLIVEIRA, VINÍCIUS M.; DIAS, MARIELI M. G.; AVELINO, THAYNÁ M.; VIDEIRA, NATÁLIA B.; DA SILVA, FERNANDO B.; DORATIOTO, TÁBATA R.; WHITFORD, PAUL C.; LEITE, VITOR B. P.; FIGUEIRA, ANA CAROLINA M. pH and the Breast Cancer Recurrent Mutation D538G Affect the Process of Activation of Estrogen Receptor α . *BIOCHEMISTRY*, v.61, p.455 - 463, 2022.

VIDEIRA, N. B.; DIAS, M. M. G. ; TERRA, M. F. ; OLIVEIRA, V. M. ; GARCIA-AREVALO, M. ; AVELINO, T. M. ; TORRES, F. R. ; BATISTA, Fernanda A. H. ; FIGUEIRA, A. C. M. . PPAR Modulation Through Posttranslational Modification Control. In: Mostafa Z. Badr. (Org.). *Nuclear Receptors: The Art and Science of Modulator Design and Discovery*. 1ed.Kansas City: Springer, Cham, 2021, v. 1, p. 1-.

VIDEIRA, NATALIA; TRAMONTINA, ROBSON ; SODRÉ, VICTORIA RAMOS; CONTESINI, FABIANO JARES. Status of Biotechnological Processes in the Pharmaceutical Industry. In: GUSTAVO MOLINA, VIJAI KUMAR GUPTA,BRAHMA N. SINGH, NICHOLAS GATHERGOOD. (Org.). *Bioprocessing for Biomolecules Production*. 1ed.: John Wiley & Sons, Ltd, 2019, v. , p. 21-45.

CAMPOS, JESSICA L. O. ; DORATIOTO, TABATA R. ; VIDEIRA, NATALIA B. ; RIBEIRO FILHO, HELDER V. ; BATISTA, Fernanda A. H. ; FATTORI, JULIANA ; INDOLFO, NATHALIA DE C. ; NAKAHIRA, MARCEL ; BAJGELMAN, MARCIO C. ; CVORO, ALEKSANDRA ; LAURINDO, FRANCISCO R. M. ; WEBB, PAUL ; FIGUEIRA,

ANA CAROLINA M. . Protein Disulfide Isomerase Modulates the Activation of Thyroid Hormone Receptors. *Frontiers in Endocrinology*, v. 9, p. 784, 2019.

VERAS RIBEIRO FILHO, HELDER ; TAMBONES, IZABELLA LUISA ; MARIANO GONÇALVES DIAS, MARIELI; BERNARDI VIDEIRA, NATALIA; BRUDER, MARJORIE ; AMORIM AMATO, ANGÉLICA ; MIGLIORINI FIGUEIRA, ANA CAROLINA . Modulation of nuclear receptor function: Targeting the protein-DNA interface. *MOLECULAR AND CELLULAR ENDOCRINOLOGY*, v. 484, p. 1-14, 2019.

RIBEIRO FILHO, HELDER VERAS ; BERNARDI VIDEIRA, NATÁLIA; BRIDI, ALINE VILLANOVA ; TITTANEGRO, THAIS HELENA ; HELENA BATISTA, FERNANDA APARECIDA ; DE CARVALHO PEREIRA, JOSÉ GERALDO ; DE OLIVEIRA, PAULO SÉRGIO LOPES ; BAJGELMAN, MARCIO CHAIM ; LE MAIRE, Albane ; FIGUEIRA, ANA CAROLINA MIGLIORINI. Screening for PPAR Non-Agonist Ligands Followed by Characterization of a Hit, AM879, with Additional No-Adipogenic and cdk5-Mediated Phosphorylation Inhibition Properties. *Frontiers in Endocrinology*, v. 9, p. 1, 2018.

VIDEIRA, NATÁLIA BERNARDI; BATISTA, FERNANDA APARECIDA HELENO; TORRES CORDEIRO, ARTUR; FIGUEIRA, ANA CAROLINA MIGLIORINI . Cellular and Biophysical Pipeline for the Screening of Peroxisome Proliferator-Activated Receptor Beta/Delta Agonists: Avoiding False Positives. *PPAR Research*, v. 2018, p. 1- 14, 2018.

FATTORI, JULIANA ; INDOLFO, NATHALIA DE CARVALHO; CAMPOS, JÉSSICA CHRISTINA LÓIS DE OLIVEIRA; VIDEIRA, NATÁLIA BERNARDI; BRIDI, ALINE VILLANOVA; DORATIOTO, TÁBATA RENÉE ; ASSIS, MICHELLE ALEXANDRINO DE ; FIGUEIRA, ANA CAROLINA MIGLIORINI . Investigation of Interactions between DNA and Nuclear Receptors: A Review of the Most Used Methods. *NUCLEAR RECEPTOR RESEARCH*, v. 1, p. 1-20, 2014.



This is to Certify that

NATÁLIA BERNARDI VIDEIRA

may use the title

ERT

**EUROPEAN
REGISTERED
TOXICOLOGIST**

whilst registered with the
PORTUGUESE

Register of Toxicology


Signature

May 15, 2023
Date

EUROTOX
Basle, SWITZERLAND