SÃO FRANCISCO UNIVERSITY

POST-GRADUATION IN HEALTH SCIENCE

USF
UNIVERSIDADE SÃO FRANCISCO

QUALITY TRAINING FOR HEALTH PROFESSIONALS SINCE 2006

The students' education is shaped by the Health Sciences Postgraduate Program at São Francisco University so they can practice science in an interdisciplinary manner. Students will be trained based on scientific evidence, with emphasis on laboratory findings and their significance to the field of health and patient care. They will also be in touch with a critical view of science.

A training of high level in both basic and applied medicine is offered by the Health Sciences Postgraduate Program, which seeks to provide continued education for professors and researchers. The course offers the students a variety of disciplines in both online and face-to-face environments to reach a multidisciplinary audience. Our goal is to create highly skilled experts who can respond to scientific queries with quality, assurance, and positive societal impact.

To develop a multidisciplinary course, the postgraduate program in Health Sciences is based on complementary lines of active and fruitful research themes in certain fields of knowledge. Physicians, physiotherapists, biologists, biomedics, nurses, pharmacists, chemists, psychologists, nutritionists, physical educators, dentists, and statisticians are the audience members the program is aimed at. The Master of Health Science degree takes 12 to 24 months to complete, whereas the Ph.D. program takes 24 to 48 months.

Contact information: cienciasdasaude.pos@usf.edu.br

HOW TO APPLY

If you are interested in enrolling in the Health Sciences Postgraduate Program as a new student, an application is required. The admission is a multi-step process:

- Contact one of the professors of the Health Sciences Postgraduate Program.
- Complete the online application form.
- Pay the application fee.
- Submit the required documentation (valid ID, certificates, residence permit).
- Present a research project.
- Present an English proficiency test: International students applying to the Health Sciences.

One score report from the International English Language Testing System (IELTS) or the Test of English as a Foreign Language (TOEFL), proving acceptable English proficiency, must be submitted to the program's office.

For the evaluation and conferral of degree of master's or doctorate, the candidate must:

- Complete the required courses and credits required by the program.
- Pass the qualification exams, being two for master's and one for doctorate degrees.
- Present proof of the acceptance of a full article by an internationally circulating journal indexed by Clarivates (Journal Citation Report), describing the contents of the Thesis.

Andreia de Melo Porcari
andreia.porcari@usf.edu.br | www.orcid.org/0000-0003-4244-8594

Research Line: Metabolomics using mass spectrometry technologies for cancer diagnosis and health-related research

Chemist with a background in Analytical Chemistry, with MSc and Ph.D. in Analytical Chemistry (Unicamp). Acts using traditional metabolomics (LC-MS/MS, GC-MS/MS) and modern ambient imaging MS techniques to investigate new diagnostics methods for various cancer kinds (such as breast, cervix, and brain) and other disorders.

Article: Moura AV, de Oliveira DC, Silva AAR, da Rosa JR, Garcia PHD, Sanches PHG, Garza KY, Mendes FMM, Lambert M, Gutierrez JM, Granado NM, Dos Santos AC, de Lima IL, Negrini LDO, Antonio MA, Eberlin MN, Eberlin LS, Porcari AM. Urine Metabolites Enable Fast Detection of COVID-19 Using Mass Spectrometry. Metabolites. 2022 Nov 2;12(11):1056. doi: 10.3390/metabo12111056.

Carlos Augusto Real Martinez
carlos.martinez@usf.edu.br www.orcid.org/0000-0001-8088-427X

Research Line: Molecular biology of inflammatory bowel diseases and colorectal cancer

MD, Ph.D, Digestive, and General Surgery. Full Professor (USP). Acts at investigating the molecular pathology of inflammatory bowel diseases (with emphasis on diversion colitis) and molecular biology of colorectal cancer.

Article: de Mattos RLM, Kanno DT, Campos FG, Pacciulli Pereira G, Magali Yoshitani M, de Godoy Delben A, Aires Pereira J, Augusto Real Martinez C. Tissue content and pattern of expression of claudin-3 and occludin in normal and neoplastic tissue in patients with colorectal cancer. J Gastrointest Surg. 2022 Nov 2;12(11):2351-3. doi: 10.1007/s11605-022-05362-5. PMID: 35641813.

Fábio Henrique da Silva
fabio.hsilva@usf.edu.br | www.orcid.org/0000-0003-3374-5570

Research Line: Priapism and voiding dysfunction in sickle cell disease: pathophysiology and new drug candidates

Graduated from Unicamp with degrees in pharmacy, science, and pharmacology. Postdoctoral positions at the Center of Hematology and Hemotherapy (Unicamp) and The Johns Hopkins University School of Medicine (Baltimore, Maryland, USA). He is interested in the pharmacology of erectile dysfunction, priapism, and symptoms of the lower urinary tract.

Article: Iacopucci APM, da Silva Pereira P, Pereira DA, Calmasini FB, Pittalà V, Reis LO, Burnett AL, Costa FF, Silva FH. Intravascular hemolysis leads to exaggerated corpus cavernosum relaxation: Implication for priapism in sickle cell disease. FASEB J. 2022 Oct;36(10):e22535. doi: 10.1096/fj.202200867R.

Fernando Augusto de Lima Marson
fernando.marson@usf.edu.br | www.orcid.org/0000-0003-4955-4234

Research Line: Molecular biology and epidemiology in respiratory diseases

Graduated in biological sciences from UNESP; earned an MSc and a Ph.D. in science from Unicamp; and completed postdoctoral work at Lisbon University and the Genomic and Medical Genetics Laboratory in Lisbon. investigates the phenotype and genotype of the respiratory system in both healthy people and those with lung disorders, acting in the field of epidemiology and genetics.

Article: Sansone NMS, Valencise FE, Bredariol RF, Peixoto AO, Marson FAL. Profile of coronavirus disease enlightened asthma as a protective factor against death: An epidemiology study from Brazil during the pandemic. Front Med (Lausanne). 2022 Nov 29;9:953084. doi: 10.3389/fmed.2022.953084. PMID: 36523782.

Giovanna Barbarini Longato
giovanna.longato@usf.edu.br | www.orcid.org/0000-0001-5828-8957

Research Line: Bioprospecting for natural compounds and bioactive derivatives with potent anticancer activity

Graduated in biological sciences from UNIFAL with master's and doctoral degrees in Cellular and structural biology from UNICAMP. Postdoctoral position at the Barretos Cancer Hospital's Research Center in Molecular Oncology. Focused on the research of the signaling pathways involved in cell death processes as well as the bioprospecting of possible anticancer drugs obtained from natural sources (microorganisms, plants and marine animals).

Article: Seneme EF, Dos Santos DC, de Lima CA, Zelioli ÍAM, Sciani JM, Longato GB. Effects of Myristicin in Association with Chemotherapies on the Reversal of the Multidrug Resistance (MDR) Mechanism in Cancer. Pharmaceuticals. 2022 Oct 7;15(10):1233. doi: 10.3390/ph15101233.

Juliana Mozer Sciani
juliana.sciani@usf.edu.br | www.orcid.org/0000-0001-7213-206X

Research Line: Discovery and development of new drugs from animal venoms and medicinal chemistry

Graduated in biological sciences from UMESP, obtained a master's degree in pharmacology from UNIFESP, earned a doctorate in biotechnology from USP, and worked as a postdoc at Instituto Butantan. Engages in research and innovation projects involving the identification of novel compounds from marine organisms, with a focus on developing drugs for infections, cancer, and neurological illnesses.

Article: Moreno RI, Zambelli VO, Picolo G, Cury Y, Morandini AC, Marques AC, Sciani JM. Caspase-1 and Cathepsin B Inhibitors from Marine Invertebrates, Aiming at a Reduction in Neuroinflammation. Mar Drugs. 2022 Sep 29;20(10):614. doi: 10.3390/md20100614.

Ivan Gustavo Masselli dos Reis
ivan.reis@usf.edu.br orcid: | https://orcid.org/0000-0002-8025-1357

Research Line: Physiology and information technology applied to physical assessment and physical training

Graduated in Physical Education (Unesp) and Development of Systems (IFSP); MSc and Ph.D. in Physical Education (Unicamp). Engaged and interested in research involving physical activity for improving performance or health.

Article: Mendes FMM, Sanches PHG, Silva ÁAR, Reis IGMd, Carvalho PdO, Porcari AM, Messias LHD. Plasma Amino Acids and Acylcarnitines Are Associated with the Female but Not Male Adolescent Swimmer's Performance: An Integration between Mass Spectrometry and Complex Network Approaches. Biology. 2022; 11(12):1734. https://doi.org/10.3390/biology11121734.

Leonardo Henrique Dalcheco Messias
leonardo.messias@usf.edu.br | www.orcid.org/0000-0002-8324-8866

Research Line: Physiological responses to physical exercise in experimental research applied to health and disease

Bachelor's degree in physical education and a master's and a doctorate in the sciences of nutrition, sport, metabolism, measurement of aerobic and anaerobic variables by physiological examination, analysis of exercise performance, and mathematical modeling of metabolic, cardiovascular, and respiratory characteristics.

Article: Mendes FMM, Sanches PHG, Silva AAR, Reis IGM, Carvalho PO, Porcari AM, Messias LHD. Plasma amino acids and acylcarnitines are associated with the female but not male adolescent swimmer's performance: an integration between mass spectrometry and complex network approaches. Biology. 2022 Nov 29; 11(12): 1734. doi: 10.3390/biology11121734.

Lúcio Fábio Caldas Ferraz
lucio.ferraz@usf.edu.br | www.orcid.org/0000-0002-3818-3215

Research Line: Molecular bases of the regulation of virulence gene expression in pathogenic bacteria

Bachelor's degrees in Biological and in Biomedical Science at Unicamp. MSc in Genetics and Molecular Biology (Unicamp), sandwich Ph.D. at Unicamp and the University of Southern California (USA), also in Genetics and Molecular Biology, and postdoctoral at Unicamp. He has experience in the field of Molecular Genetics, with an emphasis on Human and Bacterial Genetics. Currently, he leads research projects that focus on understanding the mechanisms that regulate gene expression in pathogenic bacteria.

Article: Pacheco T, Gomes AÉI, Siqueira NMG, Assoni L, Darrieux M, Venter H, Ferraz LFC. SdiA, a Quorum-Sensing Regulator, Suppresses Fimbriae Expression, Biofilm Formation, and Quorum-Sensing Signaling Molecules Production in Klebsiella pneumoniae. Front Microbiol. 2021 Jun 21;12:597735. doi: 10.3389/fmicb.2021.597735.

Manoela Marques Ortega
manoela.ortega@usf.edu.br | www.orcid.org/0000-0003-4609-7074

Research Line: Cellular and molecular biology in Neuro-oncology diseases

Biological Sciences graduate (UNESP); MSc and Ph.D. in molecular biology in onco-hematological diseases at the Center of Hematology and Hemotherapy (Unicamp); postdoctoral fellowships at Kansas University Medical Center and the University of Health Science Center in San Antonio, Texas on Molecular Oncology. Acts on two research fields: 1) single nucleotide variants and microRNAs on the inflammation process in neurooncology and 2) microRNAs involved in natural compounds with a potential anti-tumoral effect in vitro and in vivo.

Article: Bonafé GA, Dos Santos JS, Ziegler JV, Marson FAL, Rocha T, Ortega MM. Dipotassium Glycyrrhizinate on Melanoma Cell Line: Inhibition of Cerebral Metastases Formation by Targeting NF-kB Genes-Mediating MicroRNA-4443 and MicroRNA-3620-Dipotassium Glycyrrhizinate Effect on Melanoma. Int J Mol Sci. 2022;23(13):7251. doi: 10.3390/ijms23137251.

Marcelo Lima Ribeiro
marcelo.ribeiro@usf.edu.br | www.orcid.org/0000-0003-4529-7832

Research Line: Research Line: Cellular and molecular biology

A biologist (PUCCAMP) holding M.Sc. in Medical Sciences and a Ph.D. in Pharmacology (all conferred by UNICAMP). Additionally, he has completed postdoctoral fellowships at the Biodonostia Institute, the Vall d'Hebron Institute of Oncology, and the Josep Carreras Leukemia Research Institute in Spain. His primary research interests encompass two distinctive areas: (1) Investigation of molecular mechanisms associated with gastric carcinogenesis. This involves an in-depth exploration of oxidative stress, DNA repair mechanisms, epigenetic regulation, and cancer stem cells; (2) evaluation of natural compounds with potential anti-adipogenic properties, coupled with a meticulous examination of their mechanisms of action in both in vitro and in vivo settings.

Article: Fortunato IM, dos Santos TW, Ferraz LFC, Santos JC, Ribeiro ML. Effect of Polyphenols Intake on Obesity-Induced Maternal Programming. Nutrients. 2021 Jul; 13(7): 2390. doi: 10.3390/nu13072390

Mário Angelo Claudino
mario.claudino@usf.edu.br | www.orcid.org/0000-0002-3590-9607

Research Line: Cardiovascular disease drug therapy and pharmacology

Pharmacy graduate with a doctorate from UNICAMP in pharmacology. Postdoctoral positions are available in pharmacology at Unicamp, at the University of South Florida in Florida, and at the Louisiana State University Health Sciences Center in New Orleans, USA. Acts in the field of cardiovascular pharmacology with a focus on the development of experimental models for cardiovascular illnesses, endothelial function and dysfunction, and symptoms of the lower urinary tract.

Article: Mora AG, Andrade DR, Janussi SC, Goncalves TT, Krikorian K, Priviero FBM, Claudino MA. Tadalafil treatment improves cardiac, renal, and lower urinary tract dysfunctions in rats with heart failure. Life Sci. 2022 Jan 15;289:120237. doi: 10.1016/j.lfs.2021.120237. Epub 2021 Dec 16.

Michelle Darrieux Sampaio Bertoncini
michelle.bertoncini@usf.edu.br | www.orcid.org/0000-0002-7829-3435

Research Line: 1. Recombinant proteins as vaccine candidates against human pathogens. 2. Mechanisms of bacterial resistance to antimicrobial peptides.
Graduated in biological sciences, with a Ph.D. in biotechnology from USP and postdoctoral fellowships at Butantan Institute and Lund University (Sweden). Acts on the development of novel vaccines Against pathogenic bacteria which are evaluated for their immunogenicity and protective potential in animal models of infection. The research focuses on understanding how bacteria evade host immune responses during colonization and invasive diseases.

Article: Dos Santos TW, Gonçalves PA, Rodriguez D, Pereira JA, Martinez CAR, Leite LCC, Ferraz LFC, Converso TR, Darrieux M. A fusion protein comprising pneumococcal surface protein A and a pneumolysin derivate confers protection in a murine model of pneumococcal pneumonia. PLoS One. 2022 Dec 7;17(12):e0277304. doi: 10.1371/journal.pone.0277304.

Miguel Soares Conceição
miguel.conceicao@usf.edu.br| www.orcid.org/0000-0002-9170-7890

Research Line: Cancer and Physical Exercise
PhD in physical education at FEF-UNICAMP, sandwiched between two years of study at the Australian Catholic University (2014–2015). Following a sandwich year at the Australian Catholic University in 2018, the post-doctoral program at the School of Education, Physics, and Sports at USP runs from 2016 to 2020. Physical activity for women with breast cancer is a research area for a postdoctoral fellow at FCM-UNICAMP and at UFSCar (PPD/UFSCar) (2020–2022). His research interests include two areas: 1) clinical and molecular responses to physical training in breast cancer patients, and 2) neuromuscular and molecular adaptations to concurrent training in healthy, young, and elderly individuals.

Article: Maginador, G.; Lixandrão, Manoel E.; Bortolozo, H. I.; Vechin, F. C.; Sarian, L. O.; Derchain, S.; Telles, G. D.; Zopf, E.; Ugrinowitsch, Carlos; Conceição, M. S. Aerobic Exercise-Induced Changes in Cardiorespiratory Fitness in Breast Cancer Patients Receiving Chemotherapy: A Systematic Review and Meta Analysis. Cancers. v.12, p.2240 - 2254, 2020.

Patrícia de Oliveira Carvalho
patricia.carvalho@usf.edu.br | www.orcid.org/0000-0002-2681-7022

Research Line: Biocatalysis and biochemistry of lipids
Graduated in Biochemical Pharmacy with a Ph.D. in Food Science from UNICAMP and postdoctoral fellowship at the Technical University of Denmark's - Department of Biotechnology and Biomedicine. More than 30 postgraduate students were under her supervision focuses on two distinct research areas: (1) enzymatic modification and characterization of novel biomolecules for use in the pharmaceutical and food sectors; and (2) pharmacometabolomic and lipidomic analysis using mass spectrometry for characterization of different metabolic systems.

Article: Sánchez-Vinces S, Garcia PHD, Silva AAR, Fernandes AMAP, Barreto JA, Duarte GHB, Antonio MA, Birbrair A, Porcari AM, Carvalho PO. Mass-Spectrometry-Based Lipidomics Discriminates Specific Changes in Lipid Classes in Healthy and Dyslipidemic Adults. Metabolites. 2023 Feb 3;13(2):222. doi: 10.3390/metabo13020222.

Raquel de Cássia dos Santos
raquel.cassia@usf.edu.br | https://orcid.org/0000-0002-3195-8188

Research Line: Bioprospecting of natural products for therapeutic purposes in the face of gastrointestinal disorders
Graduated in biological sciences (UNESP), earned a Ph.D. in pharmacology (UNESP), and completed a postdoctoral fellowship at São Francisco University (USF). She has experience in preclinical research on natural products, focusing primarily on the following themes: development of plant-based natural products for human health that are intended to treat gastrointestinal disorders like peptic ulcer, intestinal mucositis, and inflammatory bowel disease.

Article: Zarricueta ML, Fagundes FL, Pereira QC, Pantaleão SQ, Santos RCD. Relationship between Hormonal Modulation and Gastroprotective Activity of Malvidin and Cyanidin Chloride: In Vivo and In Silico Approach. Pharmaceutics. 2022 Mar 4;14(3):565. doi: 10.3390/pharmaceutics14030565.

Raquel Girardello
raquel.girardello@usf.edu.br | www.orcid.org/0000-0002-7117-0651

Research Line: Bacterial microbiome and antimicrobial resistance
Graduated in Biology (Universidade de Passo Fundo), MSc in Microbiology (Universidade Estadual de Londrina), and Ph.D. and Postdoctoral in Infectology at Universidade Federal de São Paulo. Acts in clinical microbiology, on the characterization of antimicrobial resistance mechanisms, and in the development of laboratory tools for the evaluation of susceptibility antimicrobial tests.

Article: Alves CH, Russi KL, Rocha NC, Bastos F, Darrieux M, Parisotto TM, Girardello R. Host-microbiome interactions regarding peri-implantitis and dental implant loss. J Transl Med. 2022 Sep 23;20(1):425. doi: 10.1186/s12967-022-03636-9.

Thaís Manzano Parisotto
thais.parisotto@usf.edu.br | www.orcid.org/0000-0003-3719-6062

Research Line: Early childhood caries: etiological factors, preventive aspects and relationship with other diseases
Graduated in dentistry from UNESP, earned a master's and a doctorate in pediatric dentistry from FOP-Unicamp, and completed a sandwich Ph.D. program at the Forsyth Institute in the United States. Participates in observational clinical studies that take a multifaceted approach to preventing early childhood caries. These investigations evaluate the clinical characteristics of various lesions in relation to the immunological components of saliva, food, and oral hygiene as well as the microbiological and biochemical makeup of dental plaque.

Article: Rizzardi KF, Crescente CL, Indiani CMDSP, Steiner-Oliveira C, Nobre-Dos-Santos M, Parisotto TM. Early childhood caries, obesity and anthropometric measurements: Is there a relationship? Front Nutr. 2022 Aug 10;9:873562. doi: 10.3389/fnut.2022.873562.

Thiago Rojas Converso
thiago.converso@usf.edu.br | https://orcid.org/0000-0001-5631-4541

Research Line: Molecular Microbiology and Infectious Diseases
Graduated in Biotechnology (UNIFAL); Ph.D. in Biotechnology (USP), Postdoctoral at the Immunology section at Lund University in Sweden. Has experience in biofilm formation and investigation of virulence factors as vaccine candidates. Acts on the development of novel models for selecting vaccine candidates considering the different stages of bacterial pathogenesis.

Article: Guerra MES, Destro G, Vieira B, Lima AS, Ferraz LFC, Hakansson AP, Darrieux M, Converso TR. Klebsiella pneumoniae Biofilms and Their Role in Disease Pathogenesis. Front Cell Infect Microbiol. 2022 May 11;12:877995. doi: 10.3389/fcimb.2022.877995.

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