

Julia Araujo Alves

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PhD scientist in Public Health and Environment in the line of research and development of the Assessment of contaminants, pollutants and waste, and their impacts on population and environmental health. Developing and executing projects in Environmental Risk Assessment and Diagnosis of biotransformation enzymes and xenobiotic oxidative stress in fish from urbanized coastal lagoons. In my thesis, I work on the production of scientific knowledge to support decision-making in the management of contaminated areas both in public health management and in the health assessment of aquatic organisms. In addition to technical support and research assistant in multidisciplinary teams, assisting in research activities, data collection, statistical analysis and people management. Experience in public health, ecology, ecotoxicology, environmental and occupational toxicology, Mutagenesis, Carcinogenesis, Aquatic Ecosystems, Enzymatic Antioxidant Processes, Genotoxicity, Cytotoxicity, Ecological Risk Assessment and Assay Comet.

Education

PhD in progress

Expected May 2025

Ph.D. in Public Health and Environment

Sérgio Arouca National School of Public Health (ENSP), Oswaldo Cruz Foundation – FIOCRUZ, Brazil

Master's Degree

2019-2021

Master's in public health and Environment

Sérgio Arouca National School of Public Health (ENSP), Oswaldo Cruz Foundation – FIOCRUZ, Brazil

Bachelor's Degree

2014-2019

Bachelor's in Biological Sciences
Federal University of the State of Rio de Janeiro (UNIRIO), Brazil

Relevant Experience

Ph.D Student Research in Aquatic Ecotoxicology and Ecology

ENVIRONMENTAL HEALTH ASSESSMENT AND PROMOTION LABORATORY (LAPSA) - FIOCRUZ

2021–Present

- Advisor: Enrico Mendes Saggioro / Grantee of: Coordination for the Improvement of Higher Education Personnel, CAPES, Brazil.
- Investigate the effects of environmental contamination on aquatic organisms.
- Develop analysis related to the assessment of oxidative stress, oxidizing effects and detox metabolism in species exposed to environmental pollution.
- Work independently and with collaborators to solve urbanized aquatic environments problems, resulting in 1 publication (in progress to submit)
- Guidance assistant of master's student of Postgraduate Program in Public Health and Environment at the Sérgio Arouca National School of Public Health, FioCruz (B.Sc. Guilherme de Souza Meireles).
- Internship teaching biological sciences for postgraduate and graduate students (UERJ and UNIRIO).

Master's Researcher in Emerging Contaminants and effects on aquatic animal health

ENVIRONMENTAL HEALTH ASSESSMENT AND PROMOTION LABORATORY (LAPSA) - FIOCRUZ

2019–2021

- Advisor: Enrico Mendes Saggioro / Grantee of: Coordination for the Improvement of Higher Education Personnel, CAPES, Brazil.
- Evaluated exposure to chemical, physical and biological agents and associated effects on human and animal health.
- Worked together in multidisciplinary teams to assess risk and harmful effects on the environment and aquatic biota exposed to emerging contaminants.
- Included in the research project named Ecological Risk Assessment in lagoon complexes: Contribution to the management of pollution and associated risks (FAPERJ/TEMÁTICOS E-26/211.268/2021).

Scientific Initiation in Occupational and Environmental Toxicology

NATIONAL CANCER INSTITUTE (INCA), BRAZIL

2016-2018

- Advisor: Marcia Sarpa de Campos Mello / Grantee of: Ministry of Health (MS), Brazil and National Council for Scientific and Technological Development (CNPq), Brazil

- Conducted research related to DNA damage to the immune system due to exposure to benzene and derivatives during the working day of gas station workers.
- Conducted research and analysis of the harmful health effects of occupational exposure to pesticides on producers in rural areas.
- Contributes to the proposition of cancer prevention, control and surveillance strategies by promoting a safe work environment, developing and implementing educational and environmental awareness programs for communities, schools and workers.

Environmental analyst

MÉRIEUX NUTRISCIENCES - Brazil

2014–2015

- I carried out physical-chemical, biological and microbiological tests to ensure the quality of environmental matrices, such as sediments, surface waters and waste.
- Ability to prepare technical reports, methodologies, results, conclusions and recommendations, ensuring compliance with applicable scientific and regulatory standards.
- Performing chemical analyzes to determine the presence of contaminants, including metals, volatile and semi-volatile organic compounds, PCBs, among others.
- Verification of the quality of each type of water to ensure compliance with current legislation

Congress and Events

- Presented 1 oral presentation at international congress (15th SETAC Latin America 2023) and 1 poster at international conference (Toxilatin III - 2023) during PhD degree.
- Presented 2 posters at international conference: International Meeting in Oncology Research in Celebration of 80 Years of the Brazilian National Cancer Institute (2017) and II International Meeting in Oncology Research (2018) during bachelor's degree.
- Organizing committee of 12th Biology Week of Federal University of the State of Rio de Janeiro (UNIRIO), Brazil.

Publications

- Poça KD, Giardini I, Silva PVB, Geraldino BR, Bellomo A, **Alves JA**, Conde TR, Zamith HPS, Otero UB, Ferraris FK, Friedrich K, Sarpa M. Gasoline-station workers in Brazil: Benzene exposure; Genotoxic and immunotoxic effects. *Mutation Research-Genetic Toxicology and Environmental Mutagenesis*. 2021; 865:503322.

Additional Skills

- MS Office (Word, Excel, Powerl
 - Data analysis and statistical prog
 - Agile project management
 - Laboratory animal management (documentation of animal collecti
- English language (Understands Well, Speaks Well, Reads Well, Writes Well).
- Spanish language (Understands Little, Speaks Little, Reads Little, Writes Little).