

Partner search

Company: Department of Genetics – Ribeirao Preto Medical School – University of Sao Paulo - Brazil

CIF:

Address: Av. Bandeirantes, 3900. Monte Alegre – Ribeirao Preto – Sao Paulo – Brazil – CEP: 14049-900

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Position: Associate Professor

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Short Company presentation

(R & D guidelines, international activities, etc.)

The Bioinformatics group (GBi) led by Prof. Dr. Silvana Giuliatti is a research laboratory of the Faculty of Medicine of Ribeirão Preto, University of São Paulo (FMRP/USP) and its mission is to apply computational methods and information technologies for a better understanding and prediction of biological phenomena, with special emphasis on those related with human diseases and their pharmacological treatment.

The main areas of activity of the group are Molecular Physics, Structural Bioinformatics and Artificial Intelligence.

The group collaborates with the University of Cauca - Colombia, performing molecular modeling and simulations of molecular dynamics.

GBi members are graduate students of the Graduate Program in Bioinformatics (USP) and the Graduate Program in Genetics at the Faculty of Medicine of Ribeirão Preto (USP), as well as undergraduate students.

DESCRIPTION OF ITS TECHNOLOGY AND CAPABILITIES IN R & D

(Products, technologies, applications, services, etc.)

Prof. Giuliatti is a physicist and has been working in the area applied to medicine and biology for over 20 years.

We develop projects in:

- Molecular modeling
- Molecular Docking
- Virtual screening
- Simulations of Molecular dynamics
- Artificial intelligence in health

PROPOSED COLLABORATIVE PROJECT IN R & D

(As much detail as possible, both in what it offers and what you want in a potential partner)

- **Countries of interest:** Spain
- **Technology offered to international partners:** AI, Molecular Physics and Bioinformatics
- **Technology looking for an international partner:** in vivo and in vitro experiments, database (cohorts, gene expression data)
- **Other specifications, requirements or comments:**
- **PROPOSED COLLABORATIVE PROJECT IN R & D:**

One of the current projects that may be of interest to partners is “Molecular Dynamics and Machine Learning in the Analysis of the Impact of Key Residues of Variants on the Interaction of Human Proteins ACE2 and TMPRSS2 with SARS-CoV2 Spike (FAPESP 2022/03038-8).”

We are looking for partnership and collaboration in projects involving AI in the health area, as well as searching for new targets and candidates, vaccines and drug design.

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<https://sites.usp.br/gbi/>

General comments:

- By sending this information document authorizing its dissemination.
- A profile of the company must be attached