
Open position
Bioinformatician in Cancer Immunotherapy (100%)
Institute of Oncology Research (IOR)
Bellinzona, Switzerland
<https://ior.usi.ch/group/cancer-immunotherapy>

Institute of Oncology Research (IOR)

The **IOR**, affiliated with the Università della Svizzera italiana (**USI**), is now in a brand-new high-tech research building with more than 20 research groups and state-of-the-art labs and facilities. Together with the Institute for Research in Biomedicine (IRB), the IOR is a member of **Bios+**, a recently established non-profit association aiming to promote, support, and coordinate its members' scientific research and teaching activities (www.biosplus.ch). IOR offers a multicultural environment and daily interaction with world leaders in the fields of cancer, basic immunology, and cancer immunology.

Since 2019, the Cancer Immunotherapy Lab, headed by Prof. Arianna Calcinotto, has been located at IOR.

The Calcinotto lab provides a brand-new, fully equipped lab of 90m² and an international, stimulating, dynamic, and friendly atmosphere.

SNSF Starting Grant fully funds the position (initial appointment: 2 years - 100%). Salary defined by SNSF salary scale.

Project background

The Calcinotto lab works on dissecting the interactions between tumor cells, **the tissue-specific bacteria**, and the **tumor-infiltrating immune cells** in breast cancer initiation, progression, and treatment resistance to develop novel effective therapies for the treatment of hormone-dependent **breast cancer** patients and prevention in **individuals with germline BRCA mutations**. Dr. Calcinotto published more than 20 articles in peer-reviewed journals, such as Nature, Science, Cancer Cell, and Nature Communications (e.g., Calcinotto et al., Nature, 2018; Calcinotto et al., Nature comm, 2018; Pernigoni et al., Science, 2021; Montopoli et al., Annals of Oncol 2021; Grioni et al., Blood Adv 2021; Bancaro et al. Cancer Cell 2023).

Job description

This position offers an exciting opportunity to contribute to cutting-edge research in female cancers, working closely with a multidisciplinary and international team of researchers dedicated to understanding the role of tissue microbiota and immune responses in breast and ovarian cancer.

Your profile

- Ph.D. in Bioinformatics, Computational Biology, or a related field.
- Background in cancer genomics and cancer immunology.
- Extensive experience with RNA-seq, ChIP-seq, and scRNA-seq data analysis.

- Experience working with large-scale genomics data sets, including transcriptomics, genomics, epigenomics, and proteomics data.
- Strong problem-solving capabilities.
- Excellent written and verbal communication skills (English), with a proven ability to work collaboratively in a multidisciplinary research team.

Interested?

Please submit your application in a single PDF-File including CV (with contact details of referees) and motivation letter at HR@ior.usi.ch (reference in the subject: *Surname_AC_Bioinfo2023*).