



University of Stuttgart  
Germany

## Postdoctoral Research Position in Molecular Tumor Cell Biology

**Location:** Institute of Cell Biology and Immunology, University of Stuttgart, Germany

**Reporting to:** Prof. Dr. Monilola Olayioye

**Availability:** The position is currently available, for 3 years



**Project background and description:** A Postdoctoral Researcher position (E13/100%) is available at the University of Stuttgart in the group of Prof. Dr. Monilola Olayioye. Our research team studies cellular signaling networks underlying breast and colorectal cancer progression. A particular focus is on the signaling pathways that contribute to drug resistance and cancer cell metastasis. We employ advanced genetic engineering approaches, primary (co)culture models in 2D and 3D in combination with single cell and state-of-the-art imaging techniques. Our group is part of the 3R (Reduce, Refine, Replace animal experiments) network in Baden Württemberg, thereby actively promoting 3R-related research by using ex vivo, de novo and in silico models for our studies. The advertised position involves developing 3D co-culture models to study interactions with the tumor microenvironment and to use these models for the testing of novel targeted therapies. The position also involves the supervision of experimental work of undergraduate students and engaging in teaching activities.

**Qualification/requirements:** A strong experimental background in cell biology and immunology, biochemistry and molecular biology, a genuine interest in scientific questions, team spirit, excellent communication skills, and the ability of working independently are expected. Prior experience with primary cells, organoid cultures and tissue engineering is desired.

**Host institution:** We are a team of enthusiastic scientists located at the Institute of Cell Biology and Immunology (IZI) on the University campus in Vaihingen (<https://www.izi.uni-stuttgart.de/en/research/olayioye/>). The IZI provides state-of-the-art equipment and the possibility to work in an inspiring interdisciplinary and collaborative environment. The institute also is a key pillar for the Cellular Analytics technology platform (<https://www.srcsb.uni-stuttgart.de/platforms/>) and research focus "Biomedical Systems" at the University (<https://www.uni-stuttgart.de/en/research/profile/biomedical-systems/>).

**PMIDs of selected recent publications:** 35247930; 31911555; 31745977

**Application procedure:** Applications should be handed in via email ([monilola.olayioye@izi.uni-stuttgart.de](mailto:monilola.olayioye@izi.uni-stuttgart.de)) and must include a full CV with certificates, a list of publications, a motivation letter including a description of previous research experiences and contact details of 2 referees. We value diversity and therefore welcome all applications, irrespective of gender, nationality, ethnic and social background, religion and beliefs, disability, age, or sexual orientation and identity.

**Closing date:** Applications must be received by **November 10<sup>th</sup>, 2023**