

# Joint Postdoctoral Training at the Biofluids Lab and the Israel Institute for Biological Research

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**Project title:** Human *lung-on-chip* Platforms of Infectious Disease Models: Monitoring Host Pathogen Interactions in the Respiratory Milieu

**Project description:** The aim of this project is to develop an advanced human *in vitro* **Lung-on-a-chip** model for inhaled infectious diseases as an alternative to animal models that will accurately reflect the processes of pathogenesis occurring in humans following inhalation. The use of advanced human *in vitro* models will accelerate thorough investigation of the interactions between the host and pathogens/toxins/chemicals. Once the technology is established, it will pave an avenue of research allowing the study of various pathogens, and will enable to examine and better understand the efficacy of different treatments against these pathogens.

**Background:** Experience in any or multiple of the following areas: microfabrication, microfluidics, *lab-on-chip* and diagnostics, tissue culturing, including immunocytochemistry techniques and related cell-based assays.

**How to apply:** Interested candidates should send a cover letter highlighting their experience relevant to this position and current curriculum vitae (CV) to: [arieo@iibr.gov.il](mailto:arieo@iibr.gov.il), [arbel@technion.ac.il](mailto:arbel@technion.ac.il),

The postdoc will divide his/her time between the Technion, Haifa and IIBR, Ness Ziona according to the requirements of the project.

