

## **Shikanov Lab**

Ariella Shikanov is an Associate Professor at the Department of Biomedical Engineering at the University of Michigan, with appointments at the Department of Obstetrics and Gynecology, Cellular and Molecular Biology Program and Macromolecular Science and Engineering. She joined UM in Fall 2012 as an Assistant Professor after completing her postdoctoral fellowship at Northwestern University in Chicago in a multidisciplinary collaboration called the Oncofertility Consortium aiming to address infertility induced by chemotherapy in cancer survivors.

The research in the Shikanov lab aims to restore ovarian reproductive and endocrine function in young women and girls with premature ovarian insufficiency (POI) using bioengineering tools. The newly designed biomimetic environments with controlled physical and biological properties promote the survival and development of ovarian follicles, drive tissue regeneration and restore biological function both in vivo and in vitro.

Dr. Shikanov is the recipient of The Hartwell Foundation (2014), NSF CAREER (2016), Cellular and Molecular Bioengineering Young Innovator (2018) awards and a 2023 American Institute of Medical and Bioengineering (AIMBE) fellow. She is funded by NIBIB and NICHD. Dr. Shikanov was also nominated for the Golden Apple Teaching award (2017) and was voted an Outstanding Undergraduate Research Opportunity Program mentor (2014). In 2020 Dr. Shikanov founded the start-up company, “ArtOva Therapeutics, Inc”, with the goal to bring the technology developed in her lab into the clinic.