

*Deciphering the ovarian microenvironment across developmental, spatial, and temporal axes.*

Premature ovarian insufficiency (POI), or the early cessation of ovarian function, can be caused by a disease or by the iatrogenic effects of a chemotherapy or radiation treatment. Restoration of ovarian function through a tissue engineered transplant intends to restore fertility and ovarian hormones and alleviate co-morbidities of POI, such as those that affect the cardiovascular, brain and bone health. We will describe our ongoing research to decipher the ovarian microenvironment across developmental, spatial, and temporal axes. We aim to understand the role of biochemical and physical cues on folliculogenesis to better inform the ideal microenvironment and future regenerative therapies.

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