Ann & Robert H. Lurie Children's Hospital of Chicago
Stanley Manne Children's Research Institute
Northwestern Medicine Feinberg School of Medicine

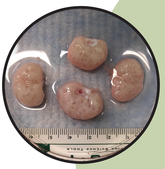
LARONDA LAB

Fertility & Hormone Preservation & Restoration Research

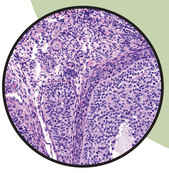
Our research addresses fundamental regenerative medicine questions through the lens of reproductive biology. The main objective of our lab is to develop a patient-specific ovarian follicle niche that will support systemic endocrine function and fertility in women and girls who were sterilized by cancer treatments, have disorders of sex development or were exposed to other factors that could result in premature ovarian failure or sex hormone insufficiency.

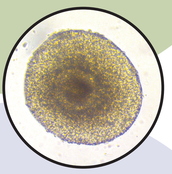
This research bridges foundational science, translational research and clinical practice.

Model Organisms



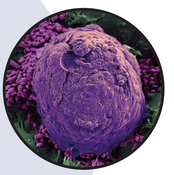
Developing immediate improvements in clinical practices by establishing best practice techniques in laparoscopic tissue removal, and ovarian tissue preservation.

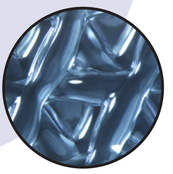


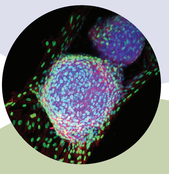


Tissue Engineering

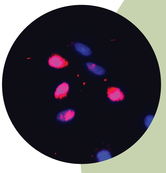
Using bioactive supports to mimic the native ovarian environment allowing us to design ideal ovarian follicle niches, which can be transplanted to restore hormone production and fertility.



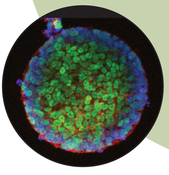


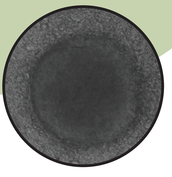


Personalized Regeneration



Supporting future fertility and endocrine innovations by developing sex hormone-producing cells from human induced pluripotent stem cells.





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Featured research projects by members of the Laronda Lab with NU collaborators.
More info at: www.pediatrics.northwestern.edu/research/labs/laronda & woodrufflab.org
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