ABOUT US
Laboratory of Reproductive medicine is focused on spermatogenesis, oocyte maturation, mechanisms of fertilization and pre-implanted embryonic development in vitro. Mice (Mus musculus) are utilized as a biological model allowing transfer of our results onto further research of human reproduction. In addition to in vitro experiments, mouse model offers in vivo testing of selected environmental pollutants. Moreover, analysis of human gametes and body fluids of reproductive system takes place in Laboratory of Reproductive Medicine.

MEMBERS
- Jan Nevoral, Ph.D. – Research Group Leader
- Olga García Alvarez, Ph.D.
- Miriama Štiavnická, M.Sc.
- Kateřina Fleisigová
- Assoc. Prof. Milena Králičková, M.D., Ph.D.

WE OFFER
- In vitro oocyte maturation (IVM), in vitro fertilization (IVF) and embryo culture (IVC).
- Flow cytometry and sorting of sperm (FACSAria, FACSVerse, BD Bioscience).
- Intracytoplasmic sperm injection (ICSI).
- Immunocytochemistry of oocytes and embryos.
- Epi-fluorescent and confocal laser-scanning microscopy, live cell imaging (Olympus, IX83, Tokai Hit).
- Western Blotting (Biorad).


