

Neural Regulation of Fertility or "What's going on in the Herbison lab?"



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Did you know that the brain controls fertility in all mammals including humans?

The primary goal of the laboratory is to understand precisely how the brain controls reproductive hormone secretion so that new treatments can be brought forward for the beneficial regulation of fertility in the clinic. In Western societies, 15-25% of couples suffer from infertility – in about a third of cases this results from a problem in communication between the brain and ovary. This includes conditions like –

Polycystic Ovary Syndrome (PCOS); a condition affecting 5% of reproductive-aged women in which the pulses coming from the brain can occur too fast for the ovary to function correctly.

Hypothalamic amenorrhea; a situation where excessive stress results in abnormal hormone pulses leading to a loss of periods and infertility.

