



2020 IMPACT CIRCLE

Investigators: Kai Zhou, Ph.D. and Lei Lei, Ph.D.

Screen for drugs that reverse reproductive aging for women

In 2016 the average age for a woman in San Francisco County to give birth to her first child was 32 years old. Due to certain social and educational status changes that have taken place over time, the maternal age at first childbirth increases every year. Delayed childbearing leads to the emergence of critical social and economic challenges, as reproductive aging in women reduces fertility and increases abnormalities in offspring. The decline in fertility during aging is caused by the reduction of egg quality and the depletion of egg reserves through cell death.

In this proposed study, we want to screen for drugs that can reverse the age-related reduction of egg quality and increase the reproductive health of older women.