



Dr Su Young Han is a postdoctoral research associate working in the Herbison Laboratory, at the Department of Physiology, Development and Neuroscience, University of Cambridge.

She is interested in the neural control of fertility, especially in the mechanism underlying the synchronization of the arcuate nucleus (ARN) kisspeptin neurons. These neurons, represented as the gonadotrophin-releasing hormone (GnRH) pulse generator, is critical for driving GnRH and LH pulses critical for fertility. To understand the cellular mechanism underlying ARN kisspeptin neuron synchronizations she uses *in vivo* GCaMP approaches, including fiber photometry and microendoscopy, examining the activity of ARN kisspeptin neurons at a population level and single-cell resolution respectively, in freely-behaving mice. The talk will include the outline of these techniques and both published and more recent, unpublished data on the ARN kisspeptin neuron synchronizations.