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Over the last decade basic science discovery led to the discovery of the kisspeptin/neurokinin/dynorphin expressing neurones (KnDy neurones) in the brain as major regulators of the reproductive axis. I will describe the route from basic science discovery, first into human studies and then onto studies in patient groups to which have led to kisspeptin based therapies for the potential treatment of infertility as well as neurokinin antagonists as potential new treatments for menopausal flushing.