Role of estradiol in the feminization of lordosis behavior in female mice

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INTRODUCTION

 Estradiol is required at some point during development for the expression of lordosis behavior in adulthood

 Estradiol feminizes lordosis behavior during a specific prepubertal period (P15-P25)

RESULTS

I. Effects of prepubertal estradiol treatment on energy balance

 Estradiol is required at some point during development for the expression of lordosis behavior in adulthood

 Estradiol feminizes lordosis behavior during a specific prepubertal period (P15-P25)

 II. Effects of prepubertal estradiol treatment on the expression of neuropeptides involved in the lordosis pathway

 Estradiol might have an organizational effect on energy balance, but not through a modification of basal locomotor activity

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 PERSPECTIVES

 Continue IHC analysis on neuropeptides involved in lordosis behavior expression (nNOS, Kisspeptin, μ-opioid receptor)

 IHC analysis on prepubertal (P15 and P30) brains from ArKO female mice treated or not with estradiol over the P15-P25 period

 Check if overweight reversal in estradiol treated ArKO female mice is due to hypophagia

 Perform Dil axonal tracing on developing brains in order to assess if the projection between ARC and AVPV is correctly established in ArKO female mice

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