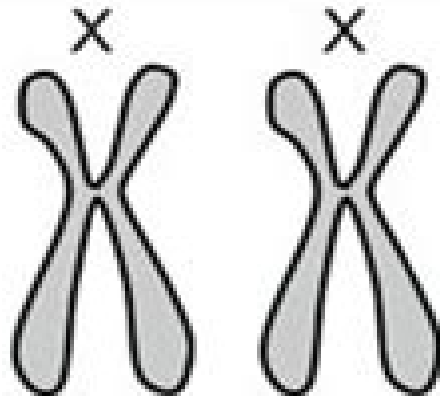


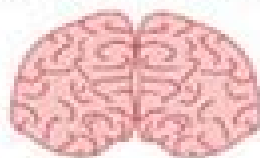
Sex Determination



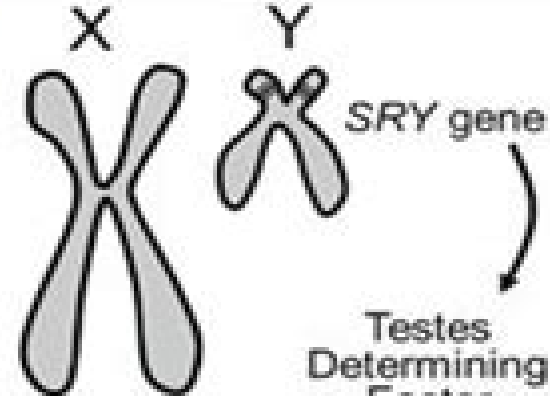
No perinatal hormone exposure

Müllerian duct develops

Brain feminization



Female external genitalia



Testes Determining Factor



Testosterone (+DHT)

Wolffian duct develops

Brain masculinization



Male external genitalia

Sexual Differentiation

Sexual Differentiation Of The Brain

Robert W. Goy, Bruce S. McEwen



Sexual Differentiation Of The Brain:

Sexual Differentiation of the Brain Akira Matsumoto,1999-12-21 Sexual difference in the brain has long been one of the more intriguing research areas in the field of neuroscience This thorough and comprehensive text uncovers and explains recent neurobiological and molecular biological studies in the field of neuroscience as they relate to the mechanisms underlying sexual differentiation of the brain Attempts have been made to clarify sex differences in the human brain using noninvasive techniques such as magnetic resonance imaging Sexual Differentiation of the Brain thoroughly examines these techniques and findings providing an up to date comprehensive overview written by leading researchers in the field Just a few of the topics addressed include genetic contributions to the sexual differentiation of behavior in vitro studies of the effects of estrogen on estrogen receptor transfected neuroblastoma cells and the evolution of brain mechanisms controlling sexual behavior Other topics include sexual differentiation of neural circuitry in the hypothalamus structural sex differences in the mammalian brain and sexual differentiation of cognitive functions in humans With its revealing and informative chapters as well as provocative treatment of the subject matter Sexual Differentiation of the Brain helps shed new light on one of the most fascinating areas of brain research Sexual Differentiation of the Brain Robert W. Goy,Bruce S.

McEwen,1979-12-01 Investigating the relative importance of genes hormones and environment in the formation of sexual behavior **Sexual Differentiation of the Brain** Robert W. Goy,Bruce S. McEwen,1980-01 Investigating the relative importance of genes hormones and environment in the formation of sexual behavior

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There are also sex differences in neurological disease cognition and behavior that are presumed to be downstream consequences. Two main factors have been implicated in sexual differentiation of the brain: gonadal hormones and direct genetic effects. Here we explore the role of sex chromosomes in the brain and behavior and the molecular mechanisms mediating the effects of these factors. We investigated the contribution of sex chromosomes to sex differences in brain and behavior by studying a novel mouse model of Klinefelter Syndrome (KS) termed the Sex Chromosome Trisomy (SCT) model. KS is characterized by the presence of an additional X chromosome in men. We investigated the extent of feminization in XXY male mice. We found that partner preference in XXY males is feminized and that these differences are likely due to interactions of the additional X chromosome with the Y. We also found that expression of a small but highly significant proportion of genes is feminized in the bed nucleus of the stria terminalis (BNST), preoptic area (POA) of XXY males, which represent strong candidates for dissecting the molecular pathways responsible for KS-specific phenotypes. We also investigated whether DNA methylation could be one of the molecular mechanisms that mediate the long-lasting irreversible effects of perinatal testosterone in the BNST POA. Using a genome-wide approach, we found that methylation at 45 genes was affected three days after the exposure. This number ballooned to 740 in adult animals. There was also a shift to a more masculine pattern of DNA methylation during adulthood in females that had seen perinatal testosterone. These results strongly suggest that perinatal testosterone confers an initial imprint that is amplified over postnatal development. We also observed sex differences in methylation at numerous genes. The interplay between gonadal hormones and sex chromosomes is a complex one. Collectively, our results provide further support for the theory of direct genetic effects in brain sexual differentiation and suggest that DNA methylation may be one mechanism that mediates not only the effects of gonadal hormones but also direct genetic effects.

Behavioral Endocrinology Jill B. Becker, 2002 The second edition of a popular introduction to the field of behavioral endocrinology

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