



Sex Differences in the Healthy and Diseased Brain

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Message from the Guest Editors

Differences in neuroanatomy, neurochemistry and brain connectivity between males and females are likely to underlie the sex-bias in susceptibility to neuropsychiatric and neurodegenerative disorders, such as autism spectrum disorder, attention-deficit hyperactivity disorder, dementia and Parkinson's disease. Evidence from clinical and basic research demonstrate that sex differences in the developing and aging brain are attributable to sex steroids, in particular, the neuroprotective actions of oestradiol (Hill. *Neurosci. Biobehav. Reviews*, 2016). However, emerging evidence indicates that the sex-chromosome genes also contribute to sex differences in the health and diseased brain (Loke et al., *Int. J. Biochem. Cell Biol.* 2015). This Special Issue, covering the influence of sex on brain structure and function in both animals and humans, will discuss the interplay between sex hormones and sex-chromosome genes in regulating brain development and function in both health and disease.





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Message from the Editor-in-Chief

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