SPECIAL ISSUE CALL FOR PAPERS
Sex differences in Neuroscience and Neuropsychopharmacology

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Most neuropsychiatric and neurological disorders present differently in men and women and there is substantial evidence that their neurobiology and treatment differs by sex. New policies from the NIH and EU regarding incorporation of sex in research are beginning to influence Neuroscience and Neuropsychopharmacology world-wide. Sex differences are present in sexual differentiation/orientation, in stress response, in cognitive processes, in neuro-immune responses, as well in neuropsychiatric, neurodegenerative, neurodevelopmental disorders and their pharmacological treatment. The regulation of sex differences by peripheral and neuronal sex hormones is very important and behavioral, electrophysiological, molecular, proteomic, transcriptomic, genetic and neuroimaging data from male and female animals and humans usually differ between the two sexes. Moreover, there is an increasing need to understand how age and reproductive state can affect sex-specific outcomes. Standardization of the approaches to investigate sex differences in basic and preclinical research is also needed. Therefore, this special issue seeks to bring together a series of empirical papers, targeted reviews and opinion pieces that will lay out the latest understanding of the mechanisms that mediate sex differences in neurobiology and neuropsychiatric treatment, as well as to raise awareness on sex-related neuroscience research.

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