Sex Differences in the Central Nervous System

Description: Sex Differences in the Central Nervous System offers a comprehensive examination of the current state of sex differences research, from both the basic science and clinical research perspectives. Given the current NIH directive that funded preclinical research must consider both females and males, this topic is of interest to an increasing percentage of the neuroscience research population.

The volume serves as an invaluable resource, offering coverage of a wide range of topics: sex differences in cognition, learning, and memory, sex hormone signaling mechanisms, neuroimmune interactions, epigenetics, social behavior, neurologic disease, psychological disorders, and stress. Discussions of research in both animal models and human patient populations are included.

- Details how sex hormones have widespread effects on the nervous system and influence the way males and females function
- Assists readers in determining how sex impacts their research and practice, and assists in determining how to adjust research programs to incorporate sex influences
- Includes discussions of research in both animal models and human patient populations, and at various developmental stages
- Features revised and updated chapters by leaders in the field around the globe—the broadest, most expert coverage available

Contents:

1. Sex Differences in Immunity and Inflammation: Implications for Brain & Behavior
2. Molecular Mechanisms of Memory in Males and Females
3. Sex Differences in Anxiety Disorders: Gonadal Hormone Interactions with Pathophysiology, Neurobiology, and Treatment
4. Sex differences in social behavior network and mesolimbic dopamine system
5. Sexual Dimorphisms in Psychosis Risk: A Neurodevelopmental Perspective
6. Sex, Gender and Addiction
7. Stress and emotional learning in humans: Evidence for sex differences
8. Biological Underpinnings of Sex Differences in Eating Disorders
9. The maternal brain: Long lasting effects on hippocampus structure and function with reproductive experience
10. Sex and the Developing Brain
11. Presence and Absence of Sex Differences in Structure and Function of the Brain Oxytocin System: Implications for Understanding the Regulation of Social Behavior
12. Sex differences in neurologic diseases
13. Steroid Hormone Signaling Pathways and Sex differences in Neuroendocrine and Behavioral Responses to Stress
14. Sex differences in rodent cognitive processing and cognitive responses to stress
15. Epigenetic sex: Gene-environmental contributions to brain sex differences and its impact on mental health risk

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