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# **Molecular Mechanisms of Brain Wiring**

Guest Editor:

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Deadline for manuscript submissions:

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# **Message from the Guest Editor**

Neurons in the brain wire in precise and stereotyped ways to form complex circuits that control behavioral outcomes. Although recent technological advances have allowed mapping of the anatomical, physiological, and functional individual properties of neurons. the molecular mechanisms underlying wiring specificity are largely unknown. Deciphering the mechanism regulating brain wiring is not only important for basic neuroscience but is also relevant for translational medicine as many neurodevelopmental disorders have been associated to changes in neuronal connectivity or synaptic function.

The objective of this Special Issue is to assemble current knowledge on the genetic programs regulating the wiring of neural circuitry and shaping synaptic properties.

This Special Issue may include original research articles focusing on the study of the mechanisms instructing synapse formation and specification during neurodevelopment and adulthood or providing insight on neuronal connectivity in physiology and disease. Papers describing novel methods in assessing synaptic changes as well as review paper discussing challenges and conceptual advances in the field are also welcome.













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# Message from the Editor-in-Chief

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