



Neural Signaling, Neuromodulation and Plasticity

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Message from the Guest Editor

Neurons are capable of sensing and responding to changes in their microenvironments via several receptors and channels. These highly diverse receptors and channels represent the dynamics of neuronal development and plasticity, which involve multiple highly complex, interactive, and dynamic signaling pathways.

To further understand the underlying complex molecular and cellular mechanisms behind neural signaling pathways and plasticity, in this Special Issue we aim to focus on:

- 1) The computational modeling of neural signaling and pathways;
- 2) Spatial synaptic modeling;
- 3) The interaction between spatial and temporal mapping and synaptic plasticity;
- 4) The influence of individual signaling pathways on the regulation of neural stem cells.





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Message from the Editor-in-Chief

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