



Special Issue on **Targets for Treatment of Mental Disorders: Functional Plasticity within Neuronal Networks Based on Receptor-Receptor Interactions**

CALL FOR PAPERS

Evidence has supported neurodevelopmental and genetic contributions to many mental disorders, which disrupt normal developmental plasticity mechanisms. Alternatively, epigenetic can cause changes in synaptic connectivity that result in pathological wiring of neural circuits, structural alterations, or remodeling, as well as a neurochemical imbalance resulting in a variety of mental disorders, including depression, bipolar disorder, schizophrenia, and addiction.

In contrast to neurological disorders, most mental disorders are not associated with localized brain lesions; they have their substrates in widely distributed limbic, prefrontal, and frontostriatal circuits, which present a challenge for the identification of appropriate targets.

In these regions, allosteric receptor-receptor interactions in heteroreceptor complexes may identify key signaling pathways implicated in these functional reorganizations, which also appear to be strong candidates for contributing to novel targets for treatment of mental disorders.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the molecular basis underlying mental disorders. We are particularly interested in articles describing new insight for treatment of depression, bipolar disorder, schizophrenia, and addiction based on receptor-receptor interactions in heteroreceptor complexes leading to functional plasticity in neural circuits involved.

Potential topics include, but are not limited to:

- ▶ Galanin/neuropeptide Y receptor interactions in limbic circuit related with depression and anxiety
- ▶ Galanin/serotonin receptor interactions in limbic circuit related with depression and anxiety
- ▶ Adenosine/dopamine receptor interactions in frontostriatal circuits related with schizophrenia or addiction
- ▶ Dopamine/opioid receptor interactions in frontostriatal circuits related with addiction
- ▶ Potential receptor-receptor interactions in mental disorders

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/np/ttmd/>.

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Manuscript Due

Friday, 29 January 2016

First Round of Reviews

Friday, 22 April 2016

Publication Date

Friday, 17 June 2016