Docket #: S01-094

Coupling of Excitation and Neurogenesis in Neural Stem/Progenitor Cells

Applications

- Potential therapies for patients with neurological and psychiatric disorders
- Screening methods to identify compounds that induce neurogenesis in culture models
- In vitro screening methods to identify compounds that act directly on excitation sensors or that influence downstream markers

Advantages

- Promotes formation of neurons, and synapse formation in addition to the other influences exerted by typical differentiation medium
- Patient-specific

Publications

- Published patent application no. US-2005-0267011-A2
- K. Deisseroth, R. Malenka. GABA Excitation in the Adult Brain: A Mechanism for Excitation- Neurogenesis Coupling. *Neuron 2005, Volume 47, Issue 6, Pages 775-777.*
- K. Deisseroth, S. Singla, H. Toda, M. Monje, T. Palmer, R. Malenka. Excitation-Neurogenesis Coupling in Adult Neural Stem/Progenitor Cells. *Neuron 2004, Volume 42, Issue 4, Pages 535-552.*

Patents

- Published Application: 20050267011

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