

Cyclic nucleotide signaling and synaptic plasticity

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CYCLIC NUCLEOTIDE SIGNALING AND SYNAPTIC PLASTICITY

EVA BOLLEN

Maastricht, 23 december 2014

1. Several neurodegenerative diseases are associated with aberrant cyclic nucleotide signaling, although it rarely represents the direct cause of the diseases. (this thesis)
2. To enhance memory via cGMP-signaling, intact cAMP signaling is a necessity. (this thesis)
3. Combination treatment with different types of phosphodiesterase inhibitors optimizes memory enhancing effects while minimizing possible side-effects. (this thesis)
4. Selective agonists of the TrkB receptor represent a promising treatment strategy for memory enhancement (this thesis).
5. The field of nootropics will keep gaining importance, as the ultimate goal of human beings is to outperform their own brain.
6. In scientific research, an apparent contradiction exists in that if you want something done right you better do it yourself, but if you want to reach further, you better do it together.
7. "Any man could, if he were so inclined, be the sculptor of his own brain." Santiago Ramon Y Cajal
8. "A failure is not always a mistake. It may simply be the best one can do under the circumstances. The real mistake is to stop trying." Burrhus Frederic Skinner
9. "The most beautiful experience we can have is the mysterious. It is the fundamental emotion which stands at the cradle of true art and true science." Albert Einstein