

Epigenetic regulation of BDNF-TrkB signaling in the pathophysiology and treatment of mood disorders

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STATEMENTS

Belonging to the PhD thesis

Epigenetic regulation of BDNF-TrkB signaling in the pathophysiology and treatment of mood disorders

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Maastricht, 29th of November 2013

1 – The downregulation of BDNF-TrkB signaling in neuronal cells can leave stable epigenetic imprints on plasticity-related genes. (*this thesis*)

2 – Exposure to selective serotonin reuptake inhibitors (SSRIs) during early life can produce behavioral and neurobiological alterations that are persistent into adulthood. (*this thesis*)

3 – Repetitive stress of low intensity can induce diverse epigenetic modifications in the mouse hippocampus concomitant with a hyperactive phenotype. (*this thesis*)

4 – Neurotrophic signaling and associated neuroplasticity are necessary for the anxiolytic action of agomelatine. (*this thesis*)

5 – The vulnerability for behavioral disturbances in rats is highly gender dependent. (*this thesis*)

6 – “Research is to see what everybody else has seen, and to think what nobody else has thought.” (*Albert Szent-Gyorgyi*)

7 – “It is this potential for plasticity of the relatively stereotyped units of the nervous system that endows each of us with our individuality.” (*Eric R. Kandel*)

8 – “No amount of experimentation can ever prove me right; a single experiment can prove me wrong.” (*Albert Einstein*)

9 – An experiment that fails is nothing more than an experiment that needs further optimization.