

Modulating microcircuits in depression

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MODULATING MICROCIRCUITS IN DEPRESSION

Milaine Roet, 16 april 2021

1. The effectiveness of deep brain stimulation in treatment-resistant depression can be increased by a more personalized and symptom-based approach (this thesis).
2. Modulation of specific sub-regions and microcircuits in the prefrontal cortex might be a potential approach towards providing tailored deep brain stimulation therapy for different subtypes of depression (this thesis).
3. Using magnetic nanoparticles for nanomaterial-mediated neuromodulation seems promising in a variety of techniques and could be applied for different neuropsychiatric disorders when more extensively investigated (this thesis).
4. Magnetothermal deep brain stimulation enables wirelessly control of rodent motor behavior (this thesis).
5. The transient receptor potential vanilloid 1 channel is endogenously expressed in the human cingulate- and medial frontal gyrus as well in neurons as in glial cells (this thesis).
6. Depression is melancholy minus it charms -the animation, the fits (Susan Sontag).
7. There is no scientific study more vital than the study of his own brain. Our entire view of the universe depends on it (Francis Crick).
8. If the human brain were so simple we could understand it, we would be so simple that we couldn't (Emerson M. Pugh).
9. The very substance of the ambitious is merely the shadow of a dream (William Shakespeare).
10. Sincerely listening to each other, passion, bringing out the best in each other and thinking outside the box, gives succes in research, career, friendship, politics and therefore life (Milaine Roet).