

Stellingen behorende bij het proefschrift

Purkinje cell Physiology in Health and Disease

1. The Purkinje cell specific deletion of *Shank2*, a postsynaptic scaffolding protein involved in ASD, results in dysfunctional Purkinje cell long term potentiation, impaired motor learning and ASD like behaviour in mice. - *This thesis*
2. The Purkinje cell specific deletion of *FOXP2*, a transcription factor involved in speech disorder, results in increased Purkinje cell excitability as well as specific timing and motor performance impairments in mice. - *This thesis*
3. *Shisa6*, an auxiliary AMPA receptor subunit, is crucial for Purkinje cell AMPA-receptor function, long term potentiation, and cerebellar motor learning. - *This thesis*
4. Expressing functional NMDA receptors at the parallel fibre to Purkinje cell synapse prevents the induction of long term plasticity presumably by facilitating additional Ca^{2+} influx. - *This thesis*
5. Mice with Purkinje cells that lack inhibitory input and the ability to induce long term depression have stronger behavioural phenotypes compared to the sum of individual phenotypes indicating mechanisms of compensation. - *This thesis*
6. The search for objective truth is best appreciated with the understanding that new knowledge and experience constantly alter our imperfect perception of it. - *Secular Humanism*
7. Science is a human activity and is therefore prone to the same biases that infect almost every sphere of human decision-making”- *Dr. Jay van Bavel, NYU (2016)*
8. Peer review is a game of chance.
9. We are living in a culture entirely hypnotized by the illusion of time, in which the so-called present moment is felt as nothing but an infinitesimal hairline between an all-powerfully causative past and an absorbingly important future. - *Alan Watts (1962)*
10. She wraps man in darkness and makes him forever long for light. - *Georg Christoph Tobler “Die Natur” (1783)*
11. Bez muke nema nauke - *Croatian proverb*