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Childhood-onset movement disorders

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STELLINGEN

behorende bij het proefschrift

Childhood-onset movement disorders: mechanistic and therapeutic insights from *Drosophila melanogaster*

- 1 Depending on the question, *Drosophila melanogaster* may represent the golden mean between organisms too complex and organisms too simple to use as a model for neurological illness.
(*This thesis*)
- 2 Loss of active, 4-phosphopantetheinylated mitochondrial acyl carrier protein occurs upon disruption of Coenzyme A biosynthesis, which may underlie mitochondrial dysfunction in PKAN and CoPan.
(*This thesis*)
- 3 The detrimental effects of Coenzyme A deprivation in *Drosophila* are at least partially conferred by dysfunction of the pyruvate dehydrogenase complex, and amenable by stimulation of this complex.
(*This thesis*)
- 4 Loss of mitochondrial acyl carrier protein may, as an epiphenomenon, also underlie the iron accumulation observed in both PKAN and CoPan.
(*This thesis*)
- 5 Loss of membrin, the *Drosophila* orthologue of GOSR2, in glial but not in neuronal cells leads to heat-induced seizure-like behaviour, suggesting that the primary function of GOSR2 disrupted in North Sea Progressive Myoclonus Epilepsy may be glial.
(*This thesis*)
- 6 Integration of fundamental and clinical knowledge leads to better science and better medicine, better scientists and better doctors.
- 7 Nature itself, unrestrained by medical ethics, has formulated an answer to many questions in genetics too cruel to venture the experiment.
- 8 The moment we can no longer afford to apply advances in medicine to our patient care, our society has the choice between a financial and a moral bankruptcy.
- 9 The diagnostic efficacy of the Single Item Narcissism Scale demonstrates the truth of Sir William Osler's adage "Listen to your patient, he is telling you the diagnosis".
(*Konrath et al., 2014; van der Linden & Rosenthal, 2016*)
- 10 Either we all live in a decent world, or nobody does.
(*George Orwell*)