

This thesis:

- 1) CAMK2A is required at the moment of spatial learning and LTP. (*This thesis*)
- 2) Considering the onset of expression, it is not surprising that CAMK2B's presence during development is essential for normal locomotion in adulthood. (*This thesis*)
- 3) Taking into account the clear abundance of CAMK2A and CAMK2B, it is surprising that loss of only one of these isoforms is not lethal. (*This thesis*)
- 4) Despite CAMK2's crucial role in LTP postsynaptically, CAMK2's presynaptic role in CA3-CA1 LTP can be discarded. (*This thesis*)
- 5) Single gene knockout mouse models can fail to reveal important gene functions, due to the presence of highly homologous isoforms. (*This thesis*)
- 6) It is staggering that the entire memory machinery can be brought down with only one point mutation.
- 7) In exploring neuronal functioning on the smallest of scales, quantum effects should not be neglected.
- 8) The lack of a clear cluster of symptoms have delayed the identification of *CAMK2* as a human intellectual disability gene.
- 9) Initiatives such as Wetenschapscafe and ScienceBattle are a great response to Anne Roe's quote "Nothing in science has any value to society if it is not communicated"
- 10) Much in science can be proven, yet there is no physical evidence to say that today is Wednesday, we just have to trust that someone kept track from the first time ever.
- 11) "Knowledge is knowing that a tomato is a fruit, wisdom is not putting it in a fruit salad." – *Miles Kington*