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Evaluating autophagy in the CNS

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Propositions

accompanying the doctoral thesis

Exploring the role of autophagy in the CNS

Implications for multiple sclerosis

1. Autophagy is involved in different phases of MS in which it contributes to pathology or is protective; hence, modulation of this process should be tailored to the disease stage (this thesis).
2. Transcriptomic changes in autophagy-related genes correlate with MS pathology and are a read-out for the state of autophagy (this thesis).
3. Activity of mTORC1 kinase is increased during both EAE-induced inflammation and remyelination after cuprizone-induced demyelination, where the latter is autophagy-independent (this thesis).
4. Autophagy is not only involved in maintaining intracellular homeostasis, but can also affect external functions in a cell type-dependent manner (this thesis).
5. Microglial phagocytosis involves different biological mechanisms depending on the substrate, whereby autophagy is involved in myelin phagocytosis (this thesis).
6. The expression of autophagy-related genes differs for subtypes of sorted cells and might be cell type-specific (this thesis).
7. The greatest achievements can only be reached when you work together as a team.
8. Doing a PhD is a great engine for personal development and should be counted as a success.
9. Life becomes more meaningful when you realize that you will never get the same moment twice.
10. It is better to live your path imperfectly than to live an imitation of somebody else's expectations with perfection.
11. Be like the lotus: "trust in the light, grow through the dirt, believe in new beginnings".

Chairi Misriellal, November 2022