Master Project

Previous results from our lab and the lab of Bryen Jordan have shown that the transmembrane adaptor protein Prr7 translocates to the nucleus after NMDAR activation, where it can modulate c-Jun dependent gene expression (Kravchick et al., EMBO Journal, 2016). However, the protein was first identified at the postsynaptic density (PSD) in a complex with NMDAR and PSD95 suggesting an eventual synaptic function of the protein (Kravchick et al., EMBO Journal, 2016). This synaptic function of Prr7 is still largely enigmatic. In ongoing work we follow up on the hypothesis that the protein integrates pro-inflammatory and NMDAR signaling.

We are looking for a master student to evaluate this role in transgenic Prr7 mouse models. The candidate should have a background in Biochemistry, Molecular and Cell Biology. Knowledge in Neuroscience is a plus. We will provide a HiWi contract if applicable. Requests and questions should be directed to Dr. Mohamrd-Raafet AMMAR (mammar@lin-magdeburg.de).

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