

TRR 167



Importance of microglial tissue surveillance for neural development and function (A10*)

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Project Leader

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Project Description:

Microglia are highly dynamic cells that continuously survey the brain. This enables them to physiologically interact with neurons, which is critical for neural development and function. We recently discovered that THIK-1 potassium channels regulate microglial ramification, surveillance and cytokine release. Since these parameters may be crucial to shape interactions with neurons, we will explore the role of microglial surveillance in neural function by electrophysiological analyses using THIK-1 KO mouse models. This will be done in the developing and adult brain, as well as under physiological and pathological conditions.

Reference: <https://gepris.dfg.de/gepris/projekt/452448167?language=en>