

TRR 167



## Adrenergic regulation of myeloid cells in chronic inflammation and neurodegeneration (B17\*)

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**Project Leader**

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**Project Description:**

Neuronal regulation of immune cell function is emerging as a critical regulator of chronic inflammation and neurodegeneration. In this context, the  $\beta$ 2-adrenergic receptor (Adrb2) on myeloid cells was linked to the pathogenesis of chronic inflammatory diseases. We propose to systematically investigate immune regulation by Adrb2 using conditional deletion of Adrb2 in neutrophils, macrophages, and dendritic cells. These conditional knockout mice will be combined with disease models, next generation sequencing and the modulation of neuronal activation to dissect the molecular pathways that regulate chronic inflammation.

Reference: <https://gepris.dfg.de/gepris/projekt/452451201>