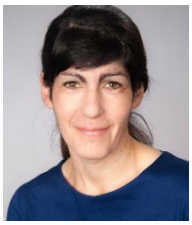
Z02 - MODELLING INDIVIDUAL DIFFERENCES IN RESPONSE TO STRESS IN MICE: AN APPROACH TO IDENTIFY NEUROBIOLOGICAL MECHANISMS UNDERLYING RESILIENCE



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The overarching aim of this central project is to set the animal experimental basis of this CRC in order to promote the understanding of neurobiological mechanisms underlying resilience to stress-related mental dysfunctions at the molecular-cellular, neural-network and behavioral levels. Specifically, this central project serves two major purposes: First, Z02 will be established as a state-of-the art service facility for other projects of this CRC initiative using the mouse as a model system. Second, Z02 will address genuine scientific questions, which will substantially contribute to our knowledge on appropriate mouse models for resilience research.

Z03 - LONGITUDINAL DETERMINATION OF RESILIENCE IN HUMANS TO IDENTIFY MECHANISMS OF RESILIENCE TO MODERN-LIFE STRESSORS

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To characterize individuals for their resilience score(s) over time and to provide these individuals to several subprojects is the main goal of this project. We will collect a well and multi-modally phenotyped sample of subjects that are healthy at study entry (T1) and in which we then perform high-frequency (three-monthly) stressor monitoring. After the first in-depth follow-up at t=18 months (T2), we will stratify subjects as a function of their RT2 scores and allocate them to several CRC subprojects. As a genuine scientific aim, Z03 subjects will undergo a core neuropsychological test battery at study entry (T1) and each follow-up (T2, T3, etc.) as a longitudinal large-scale study on mechanisms of resilience to modern-day life stressors.