



Resilience Projects of CRC 1193:

The explicit interdisciplinary and integrative nature of CRC 1193 has led to subprojects that span several levels of analysis. We have defined three program areas (A-C) as well as a central project area (Z).

| Program area | Project | Principal Investigator(s) | Project title |
|---|---------------|---|--|
| Program area A: Molecular and cellular resilience mechanism | A01 | J. Roeper | Active resilience mechanisms of dopamine midbrain neurons |
| | | S. Schweiger | |
| | A02 | B. Berninger | Unraveling the relation between adult-born hippocampal neurons' connectivity and resilience |
| | | B. Lutz | |
| | A03 | M. Müller | Neuronal actin dynamics shaping resilience: the role of the novel actin-interacting protein 'downregulated in renal cancer' (DRR1) |
| A. Acker-Palmer | | | |
| A04 | S. Ryu | Developing zebrafish model to identify novel molecular resilience mechanisms | |
| | E. M. Schuman | | |
| A05 | S. Gerber | Deciphering the epigenetic basis of resilience | |
| J. Winter | | | |
| Program area B: Neuronal network and system mechanisms | B01 | R. Kalisch | Finding the good in the bad: fear extinction reconceptualized as an appetitive learning process |
| | | S. Duvarci | |
| | B02 | J. Letzkus | Cortical mechanisms of adaptive fear extinction and resilience |
| | B03 | T. Sigurdsson | Fear network interactions underlying resilience to stress |
| | B04 | B. Lutz | Lipid signaling by anandamide and the bliss of resilience: genetic models at cellular and neural-network level |
| H. Luhmann | | | |
| B05 | S. Groppa | Regulation of neural excitability and neural-network function in resilience – a multimodal and (back-) translational approach | |
| | A. Stroh | | |
| | J. Vogt | | |
| Program area C: Neural basis of behavioral and cognitive mechanisms | C01 | A. Stroh | Making extinction last: role of spontaneous activity in a mesoprefrontal circuitry in long-term extinction memory consolidation |
| | | R. Kalisch | |
| | C02 | S. Duvarci | The functional contributions of prefrontal dopamine and norepinephrine projections to cognitive and social resilience |
| | C03 | C. Fiebach | Psychological flexibility as active resilience mechanism: neurocognitive mechanisms and dopaminergic mediation |
| | | M. Schreckenberger | |
| | C04 | O. Tüscher | Goal pursuit despite emotional distraction: neural-network mechanisms of emotional interference inhibition and their role for resilience |
| | | M. Wibral | |
| C05 | M. Wessa | Emotion regulation in the face of stress | |
| C06 | U. Basten | Seeing the good more than the bad: neural mechanisms of positivity biases in information processing and their role for resilience | |
| | C. Fiebach | | |
| C07 | M. Wessa | Neural correlates of instrumental control: immunization as potential resilience mechanism | |
| Program area Z: Central projects | Z01 | A. Reif | Central coordination |
| | | B. Lutz | |
| | Z02 | M. Müller | Modeling individual differences in response to stress in mice: an approach to identify neurobiological mechanisms underlying resilience |
| | | K. Radyushkin | |
| | | B. Lutz | |
| | Z03 | A. Reif | Longitudinal determination of resilience in humans to identify mechanisms of resilience to modern-life stressors |
| K. Lieb | | | |