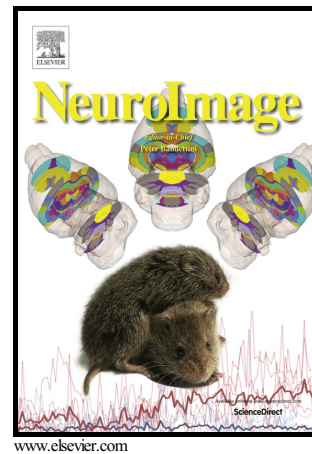


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Functional connectivity in the resting brain as biological correlate of the Affective Neuroscience Personality Scales

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Abstract

According to Jaak Panksepp's Affective Neuroscience Theory and the derived self-report measure, the *Affective Neuroscience Personality Scales (ANPS)*, differences in the responsiveness of primary emotional systems form the basis of human personality. In order to investigate neuronal correlates of personality, the underlying neuronal circuits of the primary emotional systems were analyzed in the present fMRI-study by associating the ANPS to functional connectivity in the resting brain.

N = 120 healthy participants were invited for the present study. The results were reinvestigated in an independent, smaller sample of N = 52 participants. A seed-based whole brain approach was conducted with seed-regions bilaterally in the basolateral and superficial amygdalae. The selection of seed-regions was based on meta-analytic data on affective processing and the Juelich histological atlas. Multiple regression analyses on the functional connectivity maps revealed associations with the SADNESS-scale in both samples. Functional resting-state connectivity between the left basolateral amygdala and a cluster in the

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