

On the one that exists - from the one, which is out of the one that exists

In a former study, the abundances and stochastic dependences of major Hungarian grammatical categories in a 100+ Mword corpus were analysed. In the present study, I try to identify possible neural correlates to Hungarian grammatical categories. The relevant papers published in leading journals in the past five years were collected, revisited and analysed. Structures-candidates to be neural correlates of categories can be identified to all categories, even if resolution and speed of mapping is low to get into an in-depth understanding of processes. I formulate the extended Crick-Koch principle: „Each categorially used language element should have a neural correlate i.e a firing pattern and a neural structure prior to, or simultaneously with its manifestation in a thought, speech, or writing.” The extended Crick-Koch principle provides a solid base for the planning of systematic investigation of brain and for the synthetisation of knowledge acquired by neuroimaging. The database of abundances and stochastic dependences of categories can be seen as a road-, and traffic map of the brain of a native Hungarian speaker.

Keywords: Categorical statistics, neuroimagery, psycholinguistics of the Hungarian language