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Biological Psychology: Brain Asymmetry and Behavioral Brain

Guest Editor:

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Deadline for manuscript submissions:
closed (20 August 2021)

Message from the Guest Editor

Dear Colleagues,

Despite the superficial appearance of symmetry of the right and left hemispheres, the human brain is functionally asymmetrical. Capacity in cognitive processing is enhanced by the lateralization of brain functions. It is notable that vertebrates and humans, apart from language, share a fundamental pattern of lateralization, including a variety of functions as attention, learning, memory, social behavior, and face processing. Research in humans has also shown that the level of functional brain asymmetry may depend on a number of factors, including gender, individual differences in dispositional approach and avoidance behavior, optimism, and social interaction factors. For example, EEG research has reported a greater left- than right-frontal activation at rest in approach-oriented individuals, whereas higher levels in anxiety/behavioral inhibition have been associated with greater right- than left-frontal activation...

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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