



## Brain-Targeted Drug Delivery

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### Message from the Guest Editor

Dear Colleagues,

At present, brain diseases affect 1 in 6 people worldwide, and include a wide range of neurological diseases from Alzheimer's and Parkinson's disease to epilepsy, brain injuries, brain cancer, neuroinfections and strokes. The treatment of these diseases is complex and limited due to the presence of the blood–brain barrier (BBB), which covers the entirety of the brain. The BBB not only has the function of protecting the brain from harmful substances, but is also a metabolic barrier and a transport regulator of nutrients/serum factors/neurotoxins. Knowing these characteristics when it comes the treatment of brain diseases makes it easy to understand the lack of efficacy of therapeutic drugs, resulting from the innate resistance of the BBB to permeation. To overcome this limitation, drug delivery systems based on nanotechnology/microtechnology have been wisely developed. Brain-targeted drug delivery allows targeted therapy with a higher therapeutic efficacy and low side effects because it targets moieties present in the drug delivery systems

Dr. Flávia Sousa

*Guest Editor*





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