



## Biosensors Applied in Neuroscience

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Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editor

The current popularity of organic transistors has occurred due to the recent success of organic semiconductors with more than 5 cm<sup>2</sup>/Vs carrier mobility. Future biosensors must match the non-toxicity of compounds with semiconductor technology and accurate receptor affinity. Hence, integration solutions may come from the immobilization of the enzyme or antibody layers in contact with the organic films included in organic thin-film transistors. For immuno-transistors, protein G functionalization facilitates the antibody orientation for maximal ligand affinity.

The latest advances in electronic biosensors indicate an increased interest in compatible technology between thin-film transistors and bio-receptors for smart co-integration. Therefore, this Special Issue will focus on, but is not limited to: green synthesis routes for organic bio-transistors; bio-receptor technology; enzyme co-integration with organic thin-film transistors; new enzymes; DNA fragments and antibody receptors to enlarge the analyte pallet; immunosensor affording with organic films; nano-material linkers; and label-free detection.





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## Message from the Editor-in-Chief

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