# **Special Issue**

# **Application of Electrochemical Materials in Molecular Biology**

# Message from the Guest Editor

It has been said that "Molecular Electrochemistry" can be defined as "molecules for electrochemistry and electrochemistry for molecules". In the era of almost unlimited possibilities in manufacturing materials of desired and carefully adjusted properties and an omnipresent tendency to downsize (bio)analytical devices, electrochemistry takes on new meaning. The electrode material not only plays the role of electron reservoir or sink but also the transformation of molecules triggered by electron transfer from or to an electrode and/or using molecules dispersed in the solution or attached to the electrode surface to accelerate and optimize an electrochemical reaction. makes capable of gaining in importance. As such, a mechanism could take place on a nanometer scale but with significant influence on the overall readout signal, making it an ideal candidate for detection element in any portable devices, especially when dedicated to molecular diagnostics in the POC mode. This Special Issue aims to focus on the application of electrochemical materials in molecular biology. We welcome submissions of research articles, comprehensive reviews, etc.

## **Guest Editor**

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#### Deadline for manuscript submissions

closed (30 October 2025)



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# Message from the Editor-in-Chief

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## **Editor-in-Chief**

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