

## Accepted Manuscript

Title: Conductometric analysis in bio-applications: a universal impedance spectroscopy-based approach using modified electrodes

Author: Chiara Canali Haseena Bashir Muhammad Ørjan Grøttem Martinsen Arto Heiskanen



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**Highlights for review**

- Universal protocol for conductivity determination using impedance spectroscopy
- Electrode modification method eliminating the effect of protein physisorption
- Customised Matlab algorithm for automated spectral analysis
- Conductivity is determined without the need to analyse a specific equivalent circuit
- Conductivity in solutions containing biological molecules may be reliably monitored over time

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