5th International Conference on **Wireless, Telecommunication & IoT**

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11th Euro Biosensors & Bioelectronics Congress

October 23-24, 2019 Rome, Italy

Point-Of-Care Testing (POCT) tools based on electrochemical sensing platforms combined with customized electronics for a personalized healthcare

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Recent years have been recordered tremendous advances in the POCT technology development. The reason why, POCT is capable of making some of the most critical laboratory tests available to the care and management of patients in a shorter time and in a more accessible manner. The boost for a personalized healthcare has been further incentivated by the concomitant developments in the field of biosensors and bioelectronics. For instance, electrochemical (EC) sensors can have a significant role towards point-of-care diagnostic devices due to their high performance, robustness and miniaturization potential, combined with low production costs. This work presents some examples of EC (bio)sensor-based devices able to deliver analytical results in real-time and in few minutes.

Biography

Konstantinos Petropoulos has completed his PhD and Postdoctoral studies at the University of Rome "Tor Vergata". Currently, he is R&D Engineer at CSEM SA, a private, non-profit Swiss research and technology organization. His research of interest focus on the development of novel sensing platforms based on electrochemical biosensors and immunoassays. The main field of interest is healthcare, medicine and Point-Of-Care diagnostics.

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