



Advanced Biosensors for Bacterial Detection

Guest Editor:

Dr. Jasmina Vidic
IR2, MICALIS Unit (INRA), PIMS
team, France

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submissions:

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Message from the Guest Editor

Dear Colleagues,

Efficient, swift and robust bacterial detection is important to food and environmental safety, diagnostics, outbreak preventions, and therapeutic development. This Special Issue will present the latest trends of biosensors for applications in the field of bacterial detection.

Topics of interest include, but are not limited to the following:

- New bioreceptor immobilization strategies for optical, electrochemical, magnetic and acoustic transduction,
- Novel bacterial biomarker discovery and their detection
- Design and development of novel sensing elements: molecularly imprinted polymers such as DNA, the rational designed peptides by molecular modelling and/or computational screening; synthetic nucleic acid polymers, novel enzymes, etc.,
- Biosensing systems for the early detection of foodborne pathogens,
- “Lab-on-a-chip” sensors
- Point-of-care devices and online monitoring of waterborne and foodborne bacteria
- Paper-based biosensors
- Whole bacteria detection
- Novel bacterial pre-concentration strategies





sensors



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
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