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Advanced Microelectronic Systems for Diagnosis and Therapies

Guest Editor:

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Deadline for manuscript submissions:
closed (15 November 2022)

Message from the Guest Editor

Dear Colleagues,

Bio-integrated microelectronic systems that can serve as chronically stable, high-performance sensing and stimulation interfaces with the heart, brain, and other living systems (with cellular-level resolution across macroscopic areas) are of broad interest in the fields of cardiology, neuroscience, and biomedicine. Recently, advancements in materials design and integration have created new opportunities for the production of dynamic interfaces and communications with living cells and organoids. Such multi-modality communications between cells are essential in identifying and controlling the mechanism used by cells in coordinating across multi-scale systems to interpret and act upon key events in metabolism and disease pathology.

This Special Issue aims to collect articles regarding recent advancements in microelectronic systems as diagnostic and therapeutic interfaces for advanced healthcare, ranging from medical robotics, implantable electronics, and skin-interfaced microelectronics to point-of-care devices and electronic neurotechnology.

- microelectronic
- diagnostic
- healthcare
- point-of-care devices

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Editor-in-Chief

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Message from the Editor-in-Chief

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