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Amphiphilic Biomarkers: Measurement, Characterization, Detection and Use

Guest Editor:

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Deadline for manuscript
submissions:

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Message from the Guest Editor

Most biological detection assays and approaches are focused on either proteins or nucleic acids, which are hydrophilic in biochemistry. Many sensing modalities and approaches have been developed for hydrophilic signatures—and while some of them can be applied to amphiphiles, they target the hydrophilic components of these molecules, and not the entire molecule. Nevertheless, amphiphiles are critical in biology. Almost all bacterial pathogen-associated molecular patterns that are recognized by our innate immune receptors are amphiphilic, as are many cancer biomarkers and signatures of relevance to neurological conditions and trauma. Development of targeted and tailored strategies to study and sense amphiphiles can greatly revolutionize our ability to address complex biological challenges more effectively. Here, we invite submission of manuscripts that target amphiphilic biomarkers—modeling them and their host interactions, understanding them, studying them microscopically, assays for their sensing and detection, and making amphiphiles for bi applications such as vaccines and drug delivery, in addition to diagnostics.



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Special Issue



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