

Creating and Controlling Biointerfaces

The use of chemical tools and techniques to understand and control biological interfaces is both fundamentally exciting and vital for improving human health. The ability to create and modulate biointerfaces is central in a wide range of areas, including sensors and diagnostics, imaging, and regenerative medicine. Underlying these applications are a range of fundamental and pragmatic challenges that when surmounted open new vistas in understanding and access to new technologies.

In this virtual issue, we have selected research that spans the areas of interfacial science and bioconjugation. This research is at the intersection between the interfacial focus of *Langmuir* and the biomolecular and conjugation research featured in *Bioconjugate Chemistry*. These publications span a wide and interdisciplinary literature, including new strategies for immobilization of biomacromolecules on planar, nanoparticle, and self-assembled membrane surfaces. Likewise, there are examples of engineering and exploring self-assembly processes at both two-dimensional surfaces and in materials. There are also demonstrations of the application of these motifs to pragmatic applications such as sensing and drug delivery, as well as speculative and exciting work on complex systems and biomolecular machines.

Effective engineering of the interface between the man-made and the biological worlds opens up a vast array of new opportunities for researchers. We hope that the papers in this virtual issue (<http://pubs.acs.org/page/vi/creating-controlling-biointerfaces.html>) will stimulate your interest in pursuing interdisciplinary research in the broad and interesting area of biointerfaces, and you will remember that *Langmuir* and *Bioconjugate Chemistry* journals will provide a home for your exciting new discoveries.



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■ AUTHOR INFORMATION

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Views expressed in this editorial are those of the author and not necessarily the views of the ACS.