BioMed Research International

Special Issue on
Functional Biointerphases

CALL FOR PAPERS

The fast paced development of modern medicine and biotechnologies is inspiring rich variety of functional biointerphases. As the number of artificial materials and devices being used in the human body and for biomedical applications increases, so does the need for high performance functional biomaterial and surfaces. The design of biointerphases capable of directing the behaviors of cells and biomolecules on material surfaces holds great promise to revolutionize the efficacy of healthcare technologies such as medical implants and regenerative medicine and to trigger advances in the field of diagnostics and biosensing technologies. This issue is themed around the need to improve both our understanding and control of interactions between biomaterials and living tissue.

This issue further aims at highlighting current challenges and obstacles which lie on the path of bridging the gap between biointerphases research and their use in applied biomedical technologies. Overall, this issue will bring together outstanding innovative work from the fields of biology, chemistry, physics, engineering, and material science with the common goal of providing guidance to other researchers in the field and also to inform the community on the latest advances and future directions of functional biointerphases research.

We invite investigators to contribute original research articles as well as review articles that will inspire the next generation of functional biointerphases for applications in biomedical treatments and therapies.

Potential topics include, but are not limited to:

- Coatings for medical devices
- Interphases in biosensors platforms
- Surfaces for cell capture
- Antibacterial coatings
- Biocompatible carriers
- Surfaces that control cellular behaviors such as adhesion, proliferation, and differentiation
- Biofunctional polymeric, metallic, and ceramic surface

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/bmri/biomaterials/fbps/.

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