

Biointer*phases*

Understanding biological and biomaterial interfaces through quantitative characterization, modeling, and mechanisms

Editor: Professor Sally McArthur

Swinburne University of Technology and CSIRO Australia

- Biointerface Modeling
- Tissue Engineering and Analysis
- Bio-surface modification and analysis
- The Nano-Bio Interface

- Biotribology/Biorheology
- Protein and cell-surface interactions
- Biointerface Spectroscopy and Imaging
- Bacterial interactions and Biofouling

Recent and Upcoming In Focus Collections

- Quartz Crystal Microbalance in Biological Surface Science & Soft Matter
- Conference Collection on ISSIB 2019: Surface and Interface for Biomaterials
- Early Career Investigators

- Biomimetics of Biointerfaces
- Women in Biointerface Science
- Special Topic Collection: Molecular Scale Modeling of Biological Molecules at Interfaces
- Protein Corona at Nanointerfaces

avspublications.org/bip





Biointerphases emphasizes quantitative characterization of biomaterials and biological interfaces. As an interdisciplinary journal, a strong foundation of chemistry, physics, biology, engineering, theory, and/or modeling is incorporated into original articles, reviews, tutorials and opinionated essays. *Biointerphases* is an international journal with excellence in scientific peer-review. Researchers have open access options for their publications. Works are published rapidly online and advertised through several venues for high visibility.

List of Formative Articles

Titanium surface modifications and their softtissue interface on nonkeratinized soft tissues— A systematic review

Brandaan G. R. Zigterman, Casper Van den Borre, Annabel Braem and Maurice Y. Mommaerts *Biointerphases* **14**, 040802 (2019) **DOI:** 10.1116/1.5113607

Surface chemistry of the frog sticky-tongue mechanism

J. Elliott Fowler, Thomas Kleinteich, Johannes Franz, Cherno Jaye, Daniel A. Fischer, Stanislav N. Gorb, Tobias Weidner and Joe E. Baio *Biointerphases* **13**, 06E408 (2018) **DOI:** 10.1116/1.5052651

Amyloid-like peptide nanofibrils as scaffolds for tissue engineering: Progress and challenges

Nicholas P. Reynolds Biointerphases **14**, 040801 (2019) **DOI:** 10.1116/1.5098332

Evaluation of matrix effects on TOF-SIMS data of leu-enkephalin and 1,2-dioleoyl-*sn-glycero*-3-phosphocholine mixed samples

Shusuke Nakano, Takayuki Yamagishi, Satoka Aoyagi, André Portz, Michael Dürr, Hideo Iwai and Tomoko Kawashima *Biointerphases* **13**, 03B403 (2018) **DOI:** 10.1116/1.5013219

Molecular depth profiling on rat brain tissue sections prepared using different sampling methods

Hyun Kyong Shon, Shin Hye Kim, Sohee Yoon, Chan Young Shin and Tae Geol Lee *Biointerphases* **13**, 03B411 (2018) **DOI:** 10.1116/1.5019611

Influence of surface topography on bacterial adhesion: A review

Songze Wu, Botao Zhang, Yi Liu, Xinkun Suo and Hua Li *Biointerphases* **13**, 060801 (2018) **DOI:** 10.1116/1.5054057

High resolution imaging and 3D analysis of Ag nanoparticles in cells with ToF-SIMS and delayed extraction

Anja Henss, Svenja-K. Otto, Kaija Schaepe, Linda Pauksch, Katrin S. Lips and Marcus Rohnke *Biointerphases* **13**, 03B410 (2018) **DOI:** 10.1116/1.5015957

Practical guide to characterize biomolecule adsorption on solid surfaces

Elisa Migliorini, Marianne Weidenhaupt and Catherine Picart *Biointerphases* **13**, 06D303 (2018) **DOI:** 10.1116/1.5045122

Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context

Marco Werner, Thorsten Auth, Paul A. Beales, Jean Baptiste Fleury, Fredrik Höök, Holger Kress, Reid C. Van Lehn, Marcus Müller, Eugene P. Petrov, Lev Sarkisov, Jens-Uwe Sommer and Vladimir A. Baulin *Biointerphases* **13**, 028501 (2018) **DOI:** 10.1116/1.5022145

Calcium phosphate nanoparticles as intrinsic inorganic antimicrobials: In search of the key particle property

Vuk Uskoković, Sean Tang, Marko G. Nikolić, Smilja Marković and Victoria M. Wu *Biointerphases* **14**, 031001 (2019) **DOI:** 10.1116/1.5090396



Submit your manuscript today at www.Biointerphases.peerx-press.org



Corresponding authors receive free membership in AVS and access to all AVS Publications for one year.