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

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- Biointerface Modeling
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- Bio-surface modification and analysis
- The Nano-Bio Interface
- Biotribology/Biorheology
- Protein and cell-surface interactions
- Biointerface Spectroscopy and Imaging
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**List of Formative Articles**

**Titanium surface modifications and their soft-tissue 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 Dür, 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