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Biological Interactions With Surface Charge
It is commonly understood that electrical properties such as local electrostatic charge distribution at biomaterials' surfaces play an important role in defining biological interactions e.g. protein adsorption and cell adhesion. Protein adsorption is the initial event that takes place

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**Biological
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When a biomaterial is placed inside the body, a biological response is triggered almost instantaneously. With devices that need to remain in the body for long periods, such interactions can cause encrustation, plaque

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formation and aseptic loosening on the surface. These problems contribute to the patient's trauma and increase the risk of death.

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Non-linear
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Interfacial Morphology.

S. B. Lang, G. A.

Stanciu and S. G.

Stanciu This Chapter

discusses a special

technique for the

measurement of

surface and subsurface

charge in electrically

modified biomaterials.

...

Chapter 4 -

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Biodistribution studies

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demonstrated that negative and neutral QDs preferentially distributed in the liver and the spleen, whereas positive QDs mainly deposited in the kidney with obvious uptake in the brain. In general, surface charge plays crucial roles in determining the biological interactions of QDs.

PMCID: PMC4655958

PMID: 26604757

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Role of surface charge in determining the biological ...

In biological interactions surface plays a crucial role for four reasons: first, the only part in contact with the bioenvironment is the surface of a biomaterial. Second, the surface region of a biomaterial is almost always different in morphology and

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composition from the bulk.

Biological Interaction - an overview | ScienceDirect Topics

Likewise, the interacting biological components might be influenced by the nature of the particle, for example through binding to surface ligands, contact with hydrophobic or charged regions,...

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Understanding
biophysicochemical
interactions at the
nano ...**

Surface charge also determines cellular uptake, biodistribution, and interaction with other biological environments. 61, 62 Generally, positively charged nanoparticles are known to be more easily internalized than neutral and negatively charged nanoparticles.

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63 Positively charged PEG-oligocholeic acid based micellar nanoparticles are also taken up more efficiently by macrophages and ovarian cancer cells.

64 However, this discrepancy is not consistent from studies to studies.

Size, surface charge, and shape determine therapeutic ...

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Surface charge emits an electric field, which causes particle repulsion and attraction, affecting many colloidal properties. Surface charge practically always appears on the particle surface when it is placed into a fluid. Most fluids contain ions, positive and negative . These ions interact with the object surface.

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Surface charge -

Wikipedia

Biological interactions with surface charge in biomaterials. [Tofail A M Syed;] -- When a biomaterial is placed inside the body, a biological response is triggered almost instantaneously. With devices that need to remain in the body for long periods, such interactions can cause ...

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Biological interactions with surface charge in ...

This book is the first to comprehensively address the complex phenomenon of biological interactions with the surface charge of biomaterials. Rating: (not yet rated) 0 with reviews - Be the first.

Biological interactions with surface charge in ...

Overview of nano-bio

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interactions and their impact on the nanoengineering process. Typically, nanoparticles with a single or combination of known variable(s) (e.g., size, or size and surface chemistry) are exposed to a biological system (e.g., mice with tumors), and a biological response is measured (e.g., blood half-life).

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**Nanoparticle Size,
Shape, and Surface**

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The authors found that the protein adsorption and secondary structural changes are highly dependent on the surface functionality. Our electrochemical studies provided new evidence for charge transfer interactions that influence ApoA-I unfolding. While the unfolding of ApoA-I on

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AgNPs did not significantly change their uptake and short-term cytotoxicity, the authors observed that it strongly altered the ability of only some AgNPs to generate of reactive oxygen species.

Charge-transfer interactions induce surface dependent

...

bulletins, we will be primarily concerned

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with the surface and its interactions with biomolecules. Interfaces Proteins and other biomolecules denature at interfaces. During the course of an immunoassay, several interfaces are formed that affect the structure and function of the biological components.

Immobilization Principles - Selecting the

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The charge interactions hold the peptides at the bilayer surface, where they may disturb preferentially lipid headgroup organization by formation of peptide-lipid clusters. In contrast, KLAL peptide interaction with bilayers of low negative surface charge is highly dependent on peptide helicity.

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**Peptide helicity and
membrane surface
charge modulate the**
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Laser Tissue Interactions. Laser tissue interactions can be classified into four types on contact: reflection, absorption, scattering, and transmission. Reflection wastes laser energy and makes it unsuitable for medical applications.

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Absorption at the surface is influenced by various chromophores as we will in detail later in this article.

Laser Tissue Interactions: Biological Factors to Consider ...

The charge interactions hold the peptides at the bilayer surface, where they may disturb preferentially lipid headgroup organization by

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formation of peptide-lipid clusters. In contrast, KLAL peptide interaction with bilayers of low negative surface charge is highly dependent on peptide helicity.

Peptide helicity and membrane surface charge modulate the

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The interactions between skin and colloidal gold

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nanoparticles of different physicochemical characteristics are investigated. By systematically varying the charge, shape, and functionality of gold nanoparticles, the nanoparticle penetration through the different skin layers is assessed.

Interactions of Skin with Gold Nanoparticles of

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Interactions With **Different ...**

Lidocaine turns the surface charge of biological membranes more positive and changes the permeability of blood-brain barrier culture models The surface charge of brain endothelial cells forming the blood-brain barrier (BBB) is highly negative due to phospholipids in the plasma membrane and the glycocalyx.

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