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Biological Interactions With Surface Charge

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

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interactions can cause encrustation, plaque formation and aseptic loosening on the surface. These problems contribute to the patient's trauma and increase the risk of death.

Biological Interactions with Surface Charge in ...

It is commonly understood that electrical properties such as local

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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 within the first few milliseconds at the biomaterial surface.

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synopsis and reviews.
This book is the first to
comprehensively
address the complex
phenomenon of
biological
interactions...

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Biomaterials Chapter 4
Non-linear

Characterizations of
Surface Charge and
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.

...

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Interactions With

Chapter 4 - Surface Charge In

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Interactions with

Surface Charge in ...

Electrostatic

interactions between a solid surface and a biological species have long been considered to be a contributing factor to the adhesion of biological species on the given solid surface. Despite this, electrical behaviour and surface charge are not

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of mainstream

biomedical devices.

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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,

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the surface region of a biomaterial is almost always different in morphology and 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

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Interactions With
binding to surface
ligands, contact with
hydrophobic or
charged regions,...

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**Understanding
biophysicochemical
interactions at the
nano ...**

Surface charge emits
an electric field, which
causes particle
repulsion and
attraction, affecting
many colloidal
properties. Surface
charge practically

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always appears on the particle surface when it is placed into a fluid. Most fluids contain ions, positive (cations) and negative (anions). These ions interact with the object surface.

Surface charge - Wikipedia

This book is the first to comprehensively address the complex phenomenon of biological interactions with the surface charge

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of biomaterials. Rating:
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presence of serum or
other biological
environments, the
nanomaterial's surface
charge is quickly
covered by a corona
made up of multiple
proteins. Because the
surface charge affects
corona composition, stu

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Interactions With
dies comparing positive
yand negatively charged
nanoparticles may be de
scribing the effects of
corona composition.

The Effect of Nanoparticle Size, Shape, and Surface

...

Biodistribution studies demonstrated that negative and neutral QDs preferentially distributed in the liver and the spleen, whereas positive QDs

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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

Role of surface charge in determining the biological ...

bulletins, we will be primarily concerned with the surface and its

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interactions with
biomolecules.

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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

Surface for ...

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Surfaces Charge In

Adsorption on carbon surfaces is generally favored for molecules with low solubility, partial hydrophobicity, or positive charge (for the common case of negatively charged GFNs), and for molecules with conjugated π -bonds that impart planarity and allow π - π interactions with graphenic carbon surfaces.

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Interactions of
Graphene-Family
Nanomaterials ...**

Surface charge
consequently functions
as one arm of a two-
component
coincidence detection
system whereby
electrostatic
interactions between
anionic lipids and
cationic amino acids
work in tandem with
protein lipid
modification for correct

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protein localization.

Surface Charge In

**Surface Charge: A
Key Determinant of
Protein Localization**

...

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I charge calculations, we theoretically determined that the amount of the surface charge and found that it is expected to vary depending on the surface orientation. Ultimately, these surface charges, oxygenation and the functional groups lead to the alteration in the interaction of biological matter with these surfaces.

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Interactions With

Influence of diamond crystal orientation on the ...

Conventional SPR

biosensors enable real-time observation and quantification of interactions between biological objects in a liquid sample and their counterparts immobilized on the surface of a metal supporting surface plasmons.

Advances in Surface

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**Plasmon Resonance
Imaging and ...**

Surprisingly, the charged membrane surface exhibited a great interaction energy barrier for high-valent co-ion transport that exponentially decayed for the low-valent co-ion either in the positive...

**Controllable ion
transport by surface-
charged graphene ...**

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