



Therapeutic Peptides on Plasmonic Nanoparticles

Guest Editors:

Prof. Dr. Mahmoud Ghomi

Laboratoire Matrice
Extracellulaire et Dynamique
Cellulaire (MEDyC), Université de
Reims, 51687 Reims, France

mahmoud.ghomi@univ-
paris13.fr

Dr. Santiago Sanchez-Cortés

Instituto de Estructura de la
Materia, IEM-CSIC, Serrano, 121,
E-28006 Madrid, Spain

s.sanchez.cortes@csic.es

Deadline for manuscript
submissions:

31 May 2022

Message from the Guest Editors

Optical spectroscopic techniques, based on the absorption, emission, or scattering of the electromagnetic radiation within the ultraviolet-visible-infrared range, is now routinely applied to biological systems for analyzing their chemical composition, molecular interactions, and structural dynamics. The combined use of the optical techniques, for instance, those based on the analysis of the vibrational motions (Raman scattering, ROA, IR absorption, VCD) with the others using the electronic transitions (UV-absorption and UV-CD), leads to a wide scope of the structural and environmental changes occurring inside a biological system. Plasmonic effects induced by flat surfaces through surface plasmon-polaritons, or on nanostructured metallic systems where localized surface plasmon resonance leads to significant intensification of spectroscopic signals (Raman, fluorescence, IR absorption) from biomolecules in the vicinity of nanostructures. These surface techniques, mainly SERS, have been extensively applied in the detection of biomolecules and the implementation of therapeutic strategies.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access:— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPus / SciFinder, and many other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences*
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
@IJMS_MDPI