



Single-Molecule Techniques

Guest Editor:

Dr. Soma Dhakal

Department of Chemistry,
Virginia Commonwealth
University, Richmond, VA 23284,
USA

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Message from the Guest Editor

Dear Colleagues,

Single-molecule techniques are the most desirable tool kits in many aspects of research today, not only to answer fundamental questions but also to enable high-sensitivity detection of small molecules and biomarkers. With their ever-improving spatial and temporal resolution, single-molecule techniques such as fluorescence microscopy, optical tweezers, and atomic force microscopy have enabled single-molecule analysis of increasingly complex systems, such as live cells.

In this Special Issue on “Single-Molecule Techniques”, we welcome both original research and review articles as well as protocols pertaining to current applications of single-molecule techniques in many different areas of scientific inquiry including structural studies, DNA- as well as protein-DNA biophysics, enzymology, chemical biology, medicinal chemistry, nanotechnology and many more. In addition, we aim to present exemplary research findings from single-molecule studies.

Dr. Soma Dhakal
Guest Editor





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1. School of Chemistry and
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2. Department of Organic
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Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

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Methods and Protocols Editorial
Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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