Special Issue

Proteomics of Bacterial Photosynthetic Membrane Development

Message from the Guest Editor

It is the aim of this Special Issue to portray the significant role that proteomics has played in elucidation of photosynthetic membrane developmental processes in both prokaryotic anoxygenic and oxygenic phototrophs. Previous proteomics studies in the purple bacterium *Rhodobacter sphaeroides* have matured to a stage that has revealed how isolated sites of membrane invagination and factors responsible for insertion of proteins and associated chromophores are involved in development of the intracytoplasmic membrane. Likewise, in cyanobacteria, specific components required for assembly of photosynthetic membrane protein complexes have been identified, along with proteome changes accompanying diurnal rhythms, segregated bioenergetic domains in the cyanobacterial plasma membranes, and clues to the plastid endosymbiosis process, to name just a few among many innovative findings that have recently emerged. We encourage researchers, who apply proteomic approaches to studies of prokaryotic photosynthetic membrane development, to contribute original research or review articles, encompassing studies that reflect further advancements in this rapidly developing photosynthesis research area.

Guest Editor

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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