Tentative Outline

Special Issue for Current Medicinal Chemistry

Guest Editor: Rita Berisio

Molecular scenarios behind infectious diseases

Aims & Scope:

This Hot topic thematic issue includes articles addressing a multi-disciplinary approach to the understanding of molecular scenarios behind a pool of infectious diseases. An effort is made to bring together researchers from different countries and to merge complementary approaches, which range from biophysics and biochemistry to microbiology and animal models.

In this Issue, different molecular processes associated with infectious diseases are discussed as an opportunity to develop molecular entities of therapeutic interest. Key topics will include molecular basis of recognition of pathogen associated molecular patterns by host receptors and novel methods of identification of virulence factors and candidate vaccines. Also, it will describe the contribution of structural biology to the description of key events in bacterial or viral infections as well as to the development of therapeutic entities.

Authors belong to a consolidated partnership, which was funded in the past by the COST project BM1003 (2010-2014) “Microbial cell surface determinants of virulence as targets for new therapeutics in Cystic Fibrosis” and is currently involved in the EU project DRAT-DRug development Against Tuberculosis, funded by EU.

- **Keywords:** Infectious diseases, pathogen, Immunotherapy, bacterial pathogenicity, respiratory infections.

Sub topics:

- Bacterial infections
- Viral infections
- Immunotherapy
- Virulence factors
- Structural biology

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