Special Issue

Chemical Biology of Antimicrobial Resistance

Message from the Guest Editor

A recent review of antimicrobial resistance (AMR), known as the O'Neill report, predicts deaths attributable to AMR will reach 10 million per year by 2050. Many hundreds of deaths have been caused by ESKAPE pathogens (*Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa*, and *Enterobacter species*). These pathogens have further evolved to multidrug-resistant (MDR), *Klebsiella pneumoniae* carbapenemase (KPC)-producing bacteria, *Pseudomonas aeruginosa*; methicillin-resistant *Staphylococcus aureus* (MRSA); and vancomycin-resistant Enterococci (VRE), for which currently no treatment options exist. Thus, there is an urgent need to develop new therapeutics against these deadly MDR pathogens using novel mechanisms of action. This Special Issue compiles research in the field of chemical biology to tackle this global problem that may lead to unprecedented catastrophes.

Guest Editor

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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