Special Issue

The Role of HIF-1a in Animal Physiology and Biochemistry

Message from the Guest Editors

Given the role of biological macromolecule HIF-1a in physiopathological processes, many specific small molecule compounds and natural products targeting HIF-1a are attracting more and more attention, accompanied by the development of nanomaterials and chemical modification for the chemical delivery of such substances. To increase the specificity of these drugs and their bioavailabilities, several feasible approaches and some pharmaceutical investigations can be undertaken with special interest, both in academia and in the pharmaceutical industry. These include HIF-1a-specific small molecule inhibitors (such as echinomycin and oltipraz), drug delivery systems based on lipids and nanomaterials, and the molecules that interact with HIF-1a in vivo. This Special Issue aims to provide a forum to disseminate the latest information on the specificity, bioavailability, and delivery of these chemical drugs and natural products—and their pharmaceutical effects during disease processes.

Guest Editors

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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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