

Special Issue

Drug Delivery as Molecular Transport through Biological Barriers

Message from the Guest Editors

All therapeutic delivery strategies have to overcome inevitable physiological barriers in order to transport drugs to cells situated far from the systemic circulation. Therapeutic substances have to permeate multitudes of cells and vascular walls, infiltrate networks of interstitial biopolymers, escape phagocytic cells, and face physico-chemical factors limiting their delivery. The presence of these and other barriers is a fundamental determinant of therapeutic efficacy or therapeutic resistance. This Special Issue will focus on physiological barriers to drug delivery investigated by various methodological approaches according to their related scientific disciplines. Manuscripts dealing with analytical and computational aspects of drug delivery and physiological barriers are of special interest. Furthermore, the combination of quantitative imaging, data analysis, and experiments to improve the design of drug delivery from implants and drug vectors as well as in immunotherapy is of particular interest.

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