Special Issue

Fluorine-Containing Pharmaceuticals

Message from the Guest Editor

Fluorine-containing pharmaceuticals, also known as fluoro-pharmaceuticals, have been attracting attention for more than half a century. Presently, about 20% of the commercial pharmaceuticals are fluoropharmaceuticals, Notably, 17 fluoro-pharmaceuticals were approved by the U.S. Food and Drug Administration (FDA) in 2018, equivalent to 45% of 38 small-molecule pharmaceuticals approved in 2018. An impressive rate of 41% (13/32) in 2019 is also noted. The special nature of fluorine includes high electronegativity; small size and van der Waals radius; and different chemical reactivity with respect to hydrogen. Isosteres such as F, CF3, and C=CHF are used to replace H (or OH), CH3CH2, and peptide bond, respectively. In this Special Issue, we wish to present our readers with updated works addressing the development of fluorinecontaining pharmaceuticals and their application in drug discovery. Topics include: bioorganic chemistry of fluoro-compounds, positron emission tomography imaging-directed fluoro-compounds and binding study, metabolism study, and nuclear medicine of fluoropharmaceuticals.

Guest Editor

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We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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