

Special Issue

Cytochromes P450: Drug Metabolism and Bioactivation

Message from the Guest Editors

Nearly seventy year ago, R.T. Williams and B.B. Brodie developed the concept of drug metabolism and the types of reactions and the mechanisms for the body to facilitate the excretion of a drug. Ten years later, Klingenberg and Garfinkel independently discovered the P450 protein, which was, five years later, demonstrated to be a cytochrome P450 by Omura and Sato. Later on, the prominent function of this enzyme and its role in drug metabolism was established. This resulted in a new chapter, and now more than 84,000 papers contain the concept of cytochrome P450. We now know this enzyme's importance in clearance and potential toxicity, and, therefore, compounds do get tested for these reasons. This Special Issue focus on "Cytochrome P450: Drug Metabolism and Bioactivation" and includes papers on: (1) its structures, (2) types and mechanisms of reaction, (3) pharmacogenomics, (4) bioactivation reactions and biological markers, (5) mechanism-based inactivation, (6) species differences, and (7) regulation. We warmly welcome submissions, including original papers and reviews, on these widely-discussed topics.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2018)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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