

Special Issue

Rodent Animal Models for Drug Discovery

Message from the Guest Editors

Laboratory rodents, particularly the mouse and rat, are the preferred and most frequently used animal models in biomedical research. With the development of biotechnologies, genetic manipulations further strengthen the predominant utilization of rodents. These manipulations have allowed the researcher to study rat or mice genetically suited specifically to the human disease model of their interests. Thus, rodent animal models play an essential role in drug discovery and medical studies. Animal models for drug discovery and development have played an important role in the characterization of the pathophysiology of diseases and associated mechanisms of injury, drug target identification, and evaluation of novel therapeutic agents for toxicity/safety, pharmacokinetics, pharmacodynamics, and efficacy. In this Special Issue, we aim to draw together research from experts in the field that highlight applications of rodent animals in drug discovery, covering the utilization of rodent animals, ex vivo tissue in medical research, and identify future directions that will lead to the perfect utilization of rodent animals in drug discovery.

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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