

Humanized Transgenic Mouse Models for PK, Drug-Drug Interaction and Safety Testing of Compounds

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The University of Tokyo**



A crucial issue in preclinical drug development is to predict the absorption, distribution, metabolism, excretion and toxicity (ADMET) profiles of drug candidates in humans. The accuracy of such predictions by using traditional preclinical animal models is often limited due to significant species differences in the pathways that define drug metabolism and disposition. In response, we have generated a portfolio of translational mouse models aimed to improve the selection of promising drug candidates and thus to help increasing the success rate of getting new drugs into the market. The presentation will focus on our single and multiple humanized mouse lines for xenoreceptors, drug metabolising enzymes and transporters. Specifically, the application of these models in pharmacokinetics, drug-drug interaction and safety testing of development compounds will be discussed. Furthermore, the use of some other mouse models with applications in ADMET testing, such as TK-NOG and rasH2, will be presented.

**Organizer: GCOE Program Center for Medical System Innovation through Multidisciplinary Integration,
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