

Translational Science on Drug Discovery

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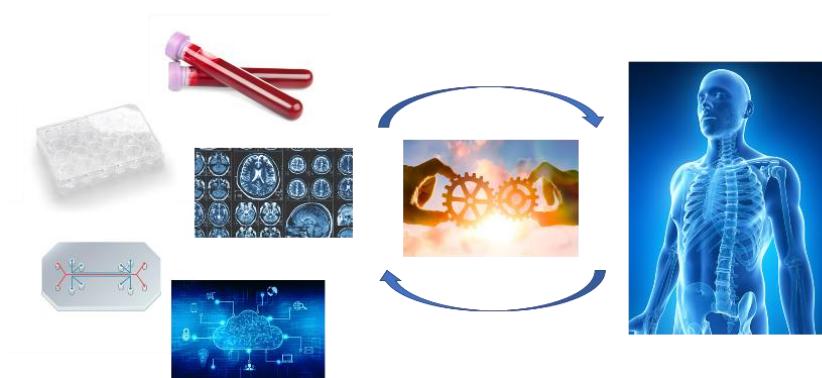
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Major Scientific Interests of the Group

- 1) Translational pathophysiology & safety research
- 2) Advanced translational research/ New Approach Methodologies
- 3) R&D/ Qualification of drug development tool

Advanced translational science on drug discovery & development



Projects for Regular Students in Doctoral or Master' s Programs

- 1) Effective Approaches in translational science. ex) in vivo/in vitro model, mechanistic research in drug discovery.
- 2) Drug development tool in translational science. ex) Microphysiological systems, biomarker

Selected Publications

- 1) K. Kuroda, K. Suzumura, T. Shirakawa, T. Hiraishi, Y. Nakahara, H. Fushiki, S. Honda, H. Naraoka, S. Miyoshi, Y. Aoki: Investigation of mechanisms for MK-801-induced neurotoxicity utilizing metabolomic approach. *Toxicological Sciences*, Vol.146, 344-53, 2015
- 2) H. Kuroda, T. Kinomoto, S. Ogawa, M. Kawabe, M. Suguro, H. Naraoka, K. Takamatsu, Y. Oishi: Progression process and safety assessment adaptation of endometrial lesions in ENU-induced 2-stage uterine carcinogenicity in Tg-rasH2 mouse model. *Journal of Toxicologic Pathology*, Vol.31, 35-41, 2018
- 3) H. Minomo, Y. Inoue, T. Iwachido, H. Oota, K. Otabe, K. Kubono, S. Kondo, D. Sasaki, Y. Suzuki, Y. Nakamura, H. Naraoka, M. Higashiyama, N. Fujisawa, K. Honda, T. Matsumoto, H. Yasui, Y. Saito, N. Toyota: Consideration for the Validation of Clinical Laboratory Method in Non-Clinical Fields. *Bioanalysis*, Vol.14, 1337-1348, 2022
- 4) K. Kitamura-Nakayama, Y. Shigemoto-Mogami, Y. Toyoda, I. Mihara, H. Moriguchi, H. Naraoka, T. Furihata, S. Ishida, K. Sato: Usefulness of humanized tri-cellular static transwell blood brain barrier model as a microphysiological system applied to drug development. *Regenerative Therapy*, Vol. 22, 192-202, 2023