# Systems pharmacokinetic models to the prediction of local CNS drug concentrations in human

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## CURRICULUM VITAE

Yumi Yamamoto (Emoto) was born on the 25th of November 1980 in Tokyo, Japan.

She graduated from Tokyo Institute of Technology, where she obtained her BSc in 2003. Subsequently she started her studies in Bioscience and Biotechnology at Tokyo Institute of Technology, where she obtained her MSc in 2005.

In April 2005, she started working at Chugai Pharmaceutical Co., Ltd., as a Clinical Pharmacologist and Pharmacokinetics/Pharmacodynamics Analyst. During that time she performed several phase I studies and pharmacological studies. At the same time, she performed broad range of non-linear mixed effect modeling such as population pharmacokinetic (PPK) analysis, pharmacokinetic/pharmacodynamic (PK/PD) analysis for clinical projects. In November 2009, she worked at F. Hoffmann-La Roche Ltd., as a pharmacometrician. During that time, she was exposed to more advanced system-based model of the glucose-insulin system to assess the PD of newly developed compounds for diabetes.

In May 2013, Yumi started her PhD research program at the Division of Pharmacology of the Leiden Academic Center for Drug Research with Dr. Elizabeth C.M. de Lange as a co-promoter and Prof. Meindert Danhof as a promoter, which led to this thesis. Her research theme was to develop a comprehensive physiologically based pharmacokinetic model which enables the prediction of drug concentration-time profiles in multiple CNS compartments in rats and humans.