



# Pharmacy

## Pharmaceutical Services

---

<http://www.h.u-tokyo.ac.jp/patient/depts/yakuzai.html>

**Our goal is to provide optimized pharmacotherapy for each patient, based on the analysis and prediction of individual pharmacokinetics, drug sensitivity and drug adverse reaction.**

**We are now advancing the basic study of the regulatory mechanism of gene function and gene expression, particularly focusing on the molecules related to osteoporosis and lifestyle diseases, as well as clinical application of genetic polymorphism analysis of drug metabolizing enzymes and drug transporters.**

- Analysis of genotype and phenotype of drug metabolizing enzymes and drug transporters
- Strategies for accurate prediction of drug disposition, and pharmacokinetic/ pharmacodynamic (PK/PD) studies
- Transporters involved in lipid homeostasis
- Regulatory mechanisms of signaling molecules involved in bone homeostasis
- Basic and clinical approach to prevent and cure drug induced liver injury



*Therapeutic drug monitoring*