

<b>Course title</b> <English>	中毒学 Toxicology	<b>Affiliated department, Job title,Name</b>	Graduate School of Medicine Associate Professor,HARADA KOUJI Graduate School of Medicine Professor,KOIZUMI AKIO		
<b>Target year</b>	Professional degree students	<b>Number of credits</b>	2	<b>Course offered year/period</b>	2017/Second semester
<b>Day/period</b>	Fri.2	<b>Class style</b>	Lecture	<b>Language</b>	Japanese and English
<b>[Outline and Purpose of the Course]</b>					
I. Course Description The understanding of GLP (Good Laboratory Practice) is essential for toxicology study. The course is aimed to provide the basis of modern toxicology research. In addition, advanced toxicology for toxicokinetics and chemical analysis will be given in the latter half of the course.					
<b>[Course Goals]</b>					
II. Course Goals and Objectives Knowledge of GLP Knowledge of toxicokinetics and mathematical models Knowledge of chemical analysis Skill to audit toxicological research					
<b>[Course Schedule and Contents]</b>					
Course Schedule 1 Oct 6 Orientation 2 Oct 13 GLP“ General Provisions ” and “ Organization and Personnel ” 3 Oct 20 GLP“ Facilities ” and “ Equipment ” 4 Oct 27 GLP“ Testing Facilities Operation ” and “ Test and Control Articles ” 5 Nov 10 GLP“ Protocol for and Conduct of a Non-clinical Laboratory Study ” 6 Nov 17 GLP“ Records and Reports ” 7 Dec 1 GLP“ Disqualification of Testing Facilities ” 8 Dec 8 GLP“ Timing of Pre-clinical Studies in Relation to Clinical Trials ” 9 Dec 15 GLP“ Preclinical Safety Evaluation of Biotechnology-Derived Pharmaceuticals ” 10 Dec 22 GLP“ Safety Pharmacology Studies for Human Pharmaceuticals ” 11 Jan 5 Toxicokinetics 1 12 Jan 12 Toxicokinetics 2 13 Jan 19 Research ethics 14 Jan 26 Chemical analysis 1 15 Feb 2 Chemical analysis 2					
<b>[Class requirement]</b>					
Elective.					
<b>[Method, Point of view, and Attainment levels of Evaluation]</b>					
III. Methods of Instruction Lecture					
----- Continue to 中毒学(2) -----					

## 中毒学(2)

Small group teaching and discussion

### [Textbook]

Instructed during class

#### IV. Course Text and Readings

1. Code of Federal Regulations ICH Guideline
2. Lu' s BASIC TOXICOLOGY 4th edition Frank C. Lu and Sam Kacew, Taylor and Francis, 2002

### [Reference books, etc.]

( Reference books )

### [Regarding studies out of class (preparation and review)]

#### V. Course Grade

Attendance and active participation 50%

Presentation 50%

### ( Others (office hour, etc.) )

Credits of “ Introduction to Toxicology ” and “ Occupational health and environmental health sciences ” are required.

\*Please visit KULASIS to find out about office hours.