

Course title <English>	中毒学入門 Introduction to Toxicology		Affiliated department, Job title, Name	Graduate School of Medicine Professor, KOIZUMI AKIO	
Target year	Professional degree students	Number of credits	2	Course offered year/period	2017/First semester
Day/period	Wed.4	Class style	Lecture	Language	Japanese and English
[Outline and Purpose of the Course]					
<p>I. Course Description</p> <p>The hazardous effects of chemicals on human health have been traditionally investigated in toxicology while therapeutic ones have been investigated in pharmacology. In this course, selected known episodes of environmental pollutions, metals and organic substances will be given. We will discuss the toxicities of common chemicals in our modern lives: mercury, dioxin, lead, thallium and cannabinoids. The aim of this course is to provide a scientific basis of modern toxicology.</p>					
[Course Goals]					
<p>II. Course Goals and Objectives</p> <p>Introduction to basic toxicology</p> <p>Knowledge for the toxic effects of some environmental pollutants, metals and organic substances familiar to us.</p> <p>Knowledge for developmental toxicology and carcinogenesis</p> <p>Analytical skill for toxicokinetics and toxicodynamics</p> <p>Skill for regulatory strategy to minimize the toxic effects of chemicals</p>					
[Course Schedule and Contents]					
<p>Course Schedule</p> <p>1 Apr 12オリエンテーション Orientation</p> <p>2 Apr 19アルコールの毒性と遺伝 Alcohol</p> <p>3 Apr 26インスリン殺人事件 Insulin</p> <p>4 May 10ハチが消えた。ネオニコチノイド農薬 Neonicotinoid pesticide</p> <p>5 May 17 Maximum Life span</p> <p>6 May 24過労死 Karoushi</p> <p>7 May 31伝統医学と現代医療、治療薬としての砒素：Arsenic</p> <p>8 Jun 7寒冷と痛み そのメカニズム：Pain</p> <p>9 Jun 14麻薬の毒性、大麻と肥満 Opioid and cannabinoid</p> <p>10 Jun 21インドの小児の夏の死亡の原因を推理する Cause of Children's Death in India during summer</p> <p>11 Jun 28トリカブト殺人事件 Aconitine 「Long working hours in occupational settings」のレポート提出</p> <p>12 Jul 5生薬から生まれた現代医薬 Medicines from natural products</p> <p>13 Jul 12過労死予防への提言 Group work</p> <p>14 Jul 19過労死予防への提言 講評 Group work</p> <p>15 Jul 26レポート講評 Report criticism</p>					
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中毒学入門(2)

[Class requirement]

Elective.

Required for the students of department of Health and Environmental Sciences.

[Method, Point of view, and Attainment levels of Evaluation]

V. Course Grade

Attendance and active participation in the lecture 70%; Report assignment 30 %

[Textbook]

Not used

IV. Course Text and Readings

Handouts

[Reference books, etc.]

(Reference books)

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

III. Methods of Instruction

Lectures and discussion

Active participation will be evaluated

(Others (office hour, etc.))

VI. Message

“ Introduction to Toxicology ” , “ Toxicology ” and “ On the Bench Training ” are in series. Those who wish to take “ Toxicology ” and “ On the Bench Training ” should take “ Introduction to Toxicology ” .

*Please visit KULASIS to find out about office hours.