

# Toxicology of xenobiotics

*Lectures and seminars – summer semester 2019/20*

Wednesday 16:20h, O101

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## 1<sup>st</sup> week (19.2.)

### **Introduction to the study.**

*History and scope of toxicology. Principles of toxicology.*

### **General pharmacotoxicology.**

**Types of drug toxicity and its studies.** *General toxicity – acute, subchronic and chronic. Nonorgan direct toxicity.*

*Chemical carcinogenesis, genetic and developmental toxicology*

*Dr. Rajtík*

## 2<sup>nd</sup> week (26.2.)

### **Methodology of toxicological examinations**

*Dr. Sprušanský*

## 3<sup>rd</sup> week (4.3.)

### **Mutagenity, carcinogenity and teratogenity.**

*Dr. Sprušanský*

## 4<sup>th</sup> week (11.3.)

### **Target organ toxicity.**

*Toxic effects on the liver, kidney, heart, blood, respiratory system, immune system.*

*Acute and chronic intoxications by medicinal drugs.*

*Dr. Ondriašová*

## 5<sup>th</sup> week (18.3.)

### **Medical and clinical toxicology**

*Physical examination, laboratory evaluation, radiographic evaluation, poison elimination.*

*Dr. Kiliánová*

## 6<sup>th</sup> week (25.3.)

### **Antidotes**

*Doc. Křenek*

## 7<sup>th</sup> week (1.4.)

### **Drug abuse. Alcohol intoxication (acute, chronic).**

*Tobacco smoking and its harmful effects.*

*Dr. Vavrínek*

8<sup>th</sup> week (8.4.)

**Food toxicology.**

*Safety of food, food ingredients and contaminants.*

*Dr. Mátuš*

9<sup>th</sup> week (15.4.)

Toxic effects of metals and non-metals on human organism and environment.

*Dr. Sprušanský*

10<sup>th</sup> week (22.4.)

Toxicology of ionizing radiation.

*Dr. Piváčková*

11<sup>th</sup> week (29.4.)

*Hepatotoxicity and nephrotoxicity of drugs*

*prof. Klimas*

12<sup>th</sup> week (6.5.)

*Cardiotoxicity and neurotoxicity of drugs*

*prof. Klimas*

13<sup>th</sup> week (13.5.)

*Final exam*

*prof. Klimas*

**Credits requirements:**

**100% presence rate!**

**Minimum 60% of correct answers in written test.**

Prof. Pharm.Dr. Ján Klimas, PhD.  
*Head of the department*

Bratislava, February 13, 2020