Seminar description

The attendance in the class is highly recommended.

The course will end with a presentation project work. This presentation must based on local ecotoxicological or human toxicological problems caused by the agribusiness. It needs to discuss possible solutions.

Requirements: oral exam / presentation

Means of preparation: - notes from class

- articles handed by the lecturer

Main topics:

1. Basics of toxicology, historical backgrounds, basic concepts. CSA
2. Global environmental problems. Role of pesticides in the contamination of soil, water and air and their effects to the living creatures. SZSZ
3. Bioaccumulation, biomagnification in organisms and biocoenosises. SZSZ
4. Usage of agrochemicals. CSA
5. Registration process of agrochemicals in the EU and Hungary. CSA
6. Categorization of pesticide active agens based on modes of action and their human toxicological problems. CSA
7. Acut toxicity. CSA
8. Chronic toxicity, toxins produced by phytopathogens. CSA
9. Basics of mutagenity, mutagenic pesticides SZSZ
10. Molecular fundaments of cancer developement, carcinogenic pesticides SZSZ
11. Basic concepts in teratology, teratogenic pesticides SZSZ
12. Hormone modulants. Basic concepts i immunology, immunemodulant pesticides. SZSZ
13. Genetically modified organisms in crop production. CSA
14. Ecotoxicological evaluation of GM organisms, their effects and hazards. CSA