



UNIVERSITATEA
DE MEDICINĂ ȘI FARMACIE
VICTOR BABEȘ | TIMIȘOARA

FACULTY OF PHARMACY

DEPARTMENT I

**DISCIPLINES: CHEMISTRY OF HYGIENE, NUTRITIONAL AND ENVIRONMENT FACTORS;
ELEMENTS OF SANITARY, ENVIRONMENTAL AND FOOD CHEMISTRY; HISTORY OF
PHARMACY (OPTIONAL).**

POSITION: FULL PROFESSOR, POSITION 31

TOPICS

1. Water – Indispensable Factor of Life. Water Role in Living Organisms. “Abnormal” Physical Properties of Water. Origin and Uses of Water.
2. Contamination and Pollution of Water. Influence of Polluting Factor in Drinking Water on Human Health.
3. Aliment and Nutrition; Food Supplements (Nutritional, Dietary); New Classes of Aliments: Functional Aliments, Probiotics, Prebiotics, Symbiotics; Food Complements; Coefficient of Digestive Utilization of Trophins. Anti-Trophins.
4. Daily Diet; Energy Requirement of Human Body; Base Metabolism; Balanced Diet; Under-Feeding; Over-Feeding.
5. Diet and Food Intolerance. Healthy Diet; Healthy Diet Dependency: Orthorexia.
6. Impact of Alimentary Technology on Nutritional Properties and Food Safety.
7. Macronutriments – Proteins. High-Protein Aliments: Meat, Milk, Fish, Eggs; Chemical Composition, Nutritional and Dietary Value.
8. Cereal Proteins; Gluten; Gluten Intolerance.
9. Milk Proteins; Casein.
10. Macronutriments – Glucides. High-Glucide Aliments: Cereal and Cereal Products/Derivatives; Sugar Products, Fruit and Vegetables; Chemical Composition, Nutritional and Dietary Value.
11. Milk Glucides; Lactose; Lactose Intolerance.
12. Macronutriments – Lipids. High-Lipid Aliments: Dietary Fats; Chemical Composition, Nutritional and Dietary Value.
13. Dietary or Nutritional Principles. Micronutriments: Mineral Substances – Macro-Elements and Trace Elements. Foods Rich in Macro-Elements and Trace Elements.
14. Dietary or Nutritional Principles. Micronutriments: Mineral Substances – Micro-Elements. Foods Rich in Micro-Elements.

15. Dietary or Nutritional Principles. Micronutriments: Water-Soluble Vitamins. Foods Rich in Water-Soluble Vitamins.
16. Dietary or Nutritional Principles. Micronutriments: Fat-Soluble Vitamins. Foods Rich in Fat-Soluble Vitamins.
17. Food Additives: Preservatives; Antioxidants.
18. Food Sweeteners.
19. 18th century Pharmacy: characteristics, development of pharmaceutical education, the first publications.
20. 19th century Pharmacy: the development of higher pharmaceutical education, the transition to industrial production of medicines.
21. 20th century Pharmacy: the discovery of chemotherapeutics and sulfonamides, penicillin and other antibiotics

Bibliography:

1. A. Caunii, C. Oprean, Z. Szabadai, "Noțiuni de chimia și igiena apei și alimentului"- ediția a II-a revizuită, Ed. Victor Babeș, Timișoara 2016
2. A. Caunii, C. Oprean, "Chimia apei și a alimentului – metode de analiză și elemente de dietoterapie", Ed. Victor Babeș, Timișoara 2016
3. A. C. Ioniță, E. Moroșan, D. I. Udeanu, M. Mititelu, „Biochimie Medicală”, Ediția a II-a revăzută și adăugită, Ed. Printech, București, 2015
4. A. C. Ioniță, E. Moroșan, D. I. Udeanu, M. Mititelu, „Nutriție și dietoterapie”, Ed. Printech, București, 2015
5. J. Maddaluno, V. Bellosta, I. Chataigner, F. Couty, A. Harrison-Marchand, M. C. Lasne, J. Prunet, J. Rouden, „Chimie organique”, Ed. Dunod, Paris, 2015
6. D. Miere, L. Filip, R. Banc, A. Cozma, O. Stanciu, "Bromatologie, Igienă, Nutriție", Ed. Med. Univ. "Iuliu Hațieganu" Cluj-Napoca, 2014
7. R. Cuciureanu: "Igiena alimentului", Ediția a II-a revăzută și adăugită Ed. Performantica, Iași 2012
8. D. Mihele, E. Dogaru, D. Udeanu, „Analiza și controlul fizico-chimic al alimentelor” Ed. Tehnoplast, București, 2011
9. C. Alais, G. Linden, L. Miclo, "Biochimie alimentaire" Ed. Dunod, Paris, 2008
10. R. Cuciureanu: "Chimia și igiena mediului și alimentului – metode de analiză", Ed. Gr.T. Popa, Iași 2003
11. Popescu H., Mogoșanu G.D., Istoria Farmaciei, Ed. Sitech, Craiova, 2010
12. Ursoniu S. Istoria farmaciei, Ed. Mirton, Timișoara, 1996