

A Series of Lectures on:

The Chemistry of Drug Design and Interaction

Prof. Ali Zand

Department of Chemistry & Biochemistry

Kettering University

1700 W. University Ave., Flint, MI 48504, USA

1. Drug Discovery, Design and Development

- a. Enzyme-Substrate Kinetics
- b. Lead Discovery
- c. Lead Modification
- d. Pharmacokinetics vs. Pharmacodynamics

2. Receptors

- a. Drug-Receptor Interactions
- b. Theories of Drug-Receptor Interaction
- c. Topographical considerations

3. Enzymes

- a. How Do Enzymes Work?
- b. Mechanisms of Enzyme Catalysis
- c. Coenzyme Catalysis
- d. Enzyme Inhibition
- e. Drug Resistance
- f. Drug Synergisms
- g. Reversible Inhibitors
- h. Irreversible Inhibitors

4. DNA-Interactive Agents

References:

- 1. Bioorganic Chemistry: A Chemical Approach, H. Dugas, Third Edition, Springer**
- 2. The Organic Chemistry of Drug Design, R. Silverman, Second Edition, Elsevier**

Termin	Dzień tygodnia	Godzina	Miejsce
22.05.2017	Poniedziałek	9.15 – 12.00	Minicentrum Konferencyjne (Luwr)
23.05.2017	Wtorek	9.15 – 12.00	Minicentrum Konferencyjne (Luwr)
24.05.2017	Środa	9.15 – 12.00	Minicentrum Konferencyjne (Luwr)
25.05.2017	Czwartek	9.15 – 12.00	Minicentrum Konferencyjne (Luwr)
26.05.2017	Piątek	9.15 – 12.00	Minicentrum Konferencyjne (Luwr)