



Molecular physiology, pathology and pharmacology of lipid and cholesterol in biomedicine

Lecturer: Prof. Yehuda Assaraf (TECHNION-Israel Institute of Technology, Israel)

Course description:

The current course will delineate the patho-physiological aspects of the biosynthesis, homeostasis of lipids and cholesterol and pathological deviation from physiological states. Emphasis will be put on a mechanistic and molecular understanding of the deviation from physiology and pathological states such as hypercholesterolemia and cardiovascular disease. Modern pharmacological tools to treat such pathological states such as hypercholesterolemia and coronary artery disease will be described.

Syllabus of the lecture subjects (enlisted):

1. Lipids, phospholipids and cholesterol: structure, biosynthesis and function in physiology and pathology. Role of lipids in physiology of biomembranes, hormones and bile salts.
2. Hypercholesterolemia, plaque formation and coronary artery disease (CAD).
3. Modern pharmaceuticals to treat hypercholesterolemia, hyperlipidemias and CAD.

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2013-10-07	Poniedziałek	9-13	300 Gmach Główny
2013-10-08	Wtorek	15-18	LUWR (Chemia A)
2013-10-09	Środa	9-13	300 Gmach Główny
2013-10-10	Czwartek	9-13	300 Gmach Główny