



"Novel mechanisms of multidrug resistance to cancer chemotherapeutics and anti-infective agents"

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Course contents:

The current course will delineate the major modalities and molecular mechanisms underlying resistance to anticancer drugs in particular, as well as to anti-infective agents. The course will introduce, in great detail, the role of multidrug resistance efflux transporters of the ABC superfamily in cytotoxic drug extrusion and novel approaches to overcome this resistance modalities. Molecular basis of antifolate drug resistance in cancer will also be presented.

Syllabus of the lecture subjects (enlisted):

1. Introduction to anticancer drugs and anti-infective agents.
2. Molecular mechanisms of resistance to antitumor agents and anti-infective agents.
3. The ABC superfamily of transporters: structure and function of multidrug resistance efflux transporters under physiological and pathological conditions.
4. Molecular mechanisms of resistance to antifolates.
5. Novel modalities to overcome cancer chemoresistance.

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2014-10-14	Wtorek	9-14	06/08 Stary gmach WETI
2014-10-15	Środa	9-14	06/08 Stary gmach WETI
2014-10-16	Czwartek	9-14	Audytorium IMP PAN (ul. Fiszera 14)