



## Multidrug resistance

Lecturer: prof. Rajendra Prasad (Jawaharlal Nehru University, New Delhi, Indie)

### Course description:

Overexpression of the ATP-Binding Cassette (ABC) drug transporter P-glycoprotein (P-gp) is often responsible for the failure of chemotherapy as a treatment for human tumors. The presence of proteins homologous to P-gp in organisms ranging from prokaryotes to eukaryotes indicates that drug export is a general mechanism of multidrug resistance. The series of lectures will highlight the structure, mechanism and functions of MOR transporters from microbes to man. The lectures will include deeper insight into the functioning of the membrane lipid and proteins in relation to MOR proteins.

The broad topics that will be covered are as follows: MOR from microbes to man; Structure and function of membranes; Membrane proteins in MOR; Chemical and structural basis of promiscuity of MOR proteins; Rational mutational analysis of MOR proteins; Chemical nature of multidrug binding pockets of MOR proteins; Drug targets; Mechanism of drug transport; Inhibitors and modulators of MOR proteins.

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2012-10-15	Poniedziałek	14-17	LUWR
2012-10-16	Wtorek	14-17	LUWR
2012-10-17	Środa	14-17	LUWR
2012-10-18	Czwartek	13-16	LUWR
2012-10-19	Piątek	9-12	LUWR