

## **Novel mechanisms of multidrug resistance to cancer chemotherapeutics and anti-infective agents.**

Yehuda G. Assaraf

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:

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.

<b>Termin</b>	<b>Dzień tygodnia</b>	<b>Godzina</b>	<b>Miejsce</b>
<b>28.11.2016</b>	<b>Poniedziałek</b>	<b>8.00 – 12.30</b>	<b>Sala 300 (GG)</b>
<b>29.11.2016</b>	<b>Wtorek</b>	<b>8.00 – 12.30</b>	<b>Sala 300 (GG)</b>
<b>30.11.2016</b>	<b>Środa</b>	<b>8.00 – 12.30</b>	<b>Sala 300 (GG)</b>