

### CB-EL5: Network Biology and Graph Theory

<b>Person in charge and Representative</b>	Kacprowski
<b>Contact person</b>	Ute Zeisberg <ute.zeisberg@plri.de>
<b>Semester</b>	2
<b>Topic cluster</b>	Computational biology
<b>Duration/Credit</b>	TBD
<b>Time</b>	The exact date incl. time will be announced separately
<b>Place</b>	Online. Dial-in data are sent separately
<b>Prerequisite for the lecture</b>	Python / R programming  - Basic Knowledge of Molecular Biology
<b>Aim of the lecture</b>	Students will learn the basics of graph theory and how graphs are used to model biological networks. This course will introduce versatile graph analysis libraries as well as common databases for biological networks of various kinds. After successful completion of this course, the students will be able to construct graphs to model molecular data, retrieve biological networks from various databases, and perform basic graph analyses to derive systems level insights from graphically represented molecular data.