

## Learning objectives – mandatory

The fulfilled and assessed learning objectives must be marked **by the student** with an x.

The **assessment** can be performed by the mentor in three ways: **direct observation** of the student during performance of a clinical activity (see page ii), **CPY task** (see page P4-P6), **Mini-CEX/DOPS** (see page v-vi). At the end of completion of the CPY tertial in the respective department, fulfilment of the learning objectives must be signed off by the mentor.

Competence	Objectives completed
<b>Literature research of an issue in Pharmacology/Toxicology</b>	
1. Discuss a finding (e.g. from the literature) related to the mode of action of an active compound / to the side effect of a drug	<input type="radio"/>
2. Devise a testable hypothesis on the mode of action of a drug /active compound	<input type="radio"/>
<b>Preparing for an experimental study</b>	
3. Outline a step-by-step study protocol	<input type="radio"/>
4. Preparation of test reagents, e.g. buffer solutions, test media	<input type="radio"/>
5. Preparation of biological specimens: tissue dissection, isolation of cells, cultivation of isolated cells, isolation of subcellular particles, protein purification	<input type="radio"/>
6. Performing a biological test: amplification of complementary DNA, transfection of isolated cells with foreign DNA	<input type="radio"/>
<b>Standardisation procedures</b>	
7. Calibration of a quantitative measurement	<input type="radio"/>
8. Measurement of electrical conductivity	<input type="radio"/>
9. Determine sensitivity and specificity of a detection method	<input type="radio"/>
<b>Biometric measurement</b>	
10. Carry out a measurement used in Pharmacology and Toxicology (e.g. by electrical recordings, with the use of radiotracers, optical/colorimetric methods)	<input type="radio"/>
11. Assess the effect of a drug/of an active test compound, assess the suitability of an experimental test system	<input type="radio"/>
12. Assess the specificity of an effect with the use of inhibitors, determine concentration/time dependence of an effect	<input type="radio"/>

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**Competence**

Objectives completed

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**Documentation in Pharmacology/Toxicology**

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13. Effect analysis	<input type="radio"/>
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14. Verbal and graphical presentation of experimental data, assessment of differences between measurements	<input type="radio"/>
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15. Interpretation of an experimental result in the context of relevant textbook knowledge	<input type="radio"/>
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**Verified by mentor**

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## Learning objectives – optional

In addition to the competences that are mandatory to achieve, optional competences from the training programmes may also be acquired.

Competence as per training programme	Objectives completed
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<b>Verified by mentor</b>	

