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

Competence

Objectives completed

Documentation in Pharmacology/Toxicology	
13. Effect analysis	○
14. Verbal and graphical presentation of experimental data, assessment of differences between measurements	○
15. Interpretation of an experimental result in the context of relevant textbook knowledge	○
Verified by mentor	

Learning objectives – optional

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

Competence as per training programme	Objectives completed
	○
	○
	○
	○
	○
	○
	○
	○
	○
	○
Verified by mentor	