### Module title

**Tumor Genetics**

**Abbreviation**

03-MBC-TG-161-m01

### Module coordinator

holder of the Professorship Human Genetics at Institute for Human Genetics

### Module offered by

Institute of Human Genetics

### ECTS

5

### Method of grading

Numerical grade

### Only after succ. compl. of module(s)

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### Duration

1 semester

### Module level

Graduate

### Other prerequisites

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### Contents

Basics on human genetics (inheritance patterns, mutation types, etc.), hereditary cancer (breast & ovarian cancer, HNPPC, FAP, etc.), cancer syndromes, tumor cytogenetics, epigenetics in cancer, animal models in cancer genetics, genetic techniques (NGS, genome engineering, etc.)

### Intended learning outcomes

The students have acquired broad knowledge in the field of tumor genetics and hereditary tumor diseases as well as specific knowledge about genetic methods. They are able to apply this acquired knowledge to scientific questions in tumor genetics. Students can independently develop scientific texts, discuss them critically and present them.

### Courses

(V 1) + (S 1)

Module taught in: English

### Method of assessment

(a) written examination (approx. 45 to 90 minutes) or (b) log (20 to 30 pages) or (c) oral examination of one candidate each (20 to 30 minutes) or (d) oral examination in groups of up to 3 candidates (15 to 30 minutes per candidate) or (e) presentation (20 to 40 minutes)

Language of assessment: German and/or English

### Allocation of places

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### Additional information

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### Referred to in LPO I

(examination regulations for teaching-degree programmes)

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### Module appears in

Master's degree (1 major) Biochemistry (2015)
Master's degree (1 major) Biomedicine (2015)
Master's degree (1 major) Biochemistry (2017)
Master's degree (1 major) Biomedicine (2018)
Master's degree (1 major) Biochemistry (2019)