

course-no.	course title	no. of CPs (according to ECTS):
<i>Tumour Biology</i>	<i>Tumour Biology</i>	1

type of course	responsible for the course	email / tel.-no.
<i>elective</i>	<i>Prof. Manuel Grez (Brigitte Held)</i>	<i>held@pharmchem.uni-frankfurt.de 069-798-29801</i>

Course Description

1. aims
<p><i>PhD students get to know characteristics of tumour cells vs. healthy cells</i> <i>PhD students should understand growth control, cell cycle, apoptosis, signalling and tumour immunology</i> <i>PhD students have to know and understand different intervention strategies to combat cancer cells</i></p>

2. content
<p><i>Overview of:</i></p> <ul style="list-style-type: none"> - <i>growth control and signalling</i> - <i>ROS signalling and cancer</i> - <i>tumour cell cell signalling</i> - <i>receptor tyrosine kinase in cancer development and progression</i> - <i>cell cycle and cancer</i> - <i>apoptosis and cancer</i> - <i>tumour immunology</i> - <i>macrophages and cancer</i> - <i>leukaemia and lymphoma</i> - <i>stem cells and tumour stem cells</i>

3. course modules					
Module/Course title	type of module/course	hours per week in a semester	CPs	mandatory (M)/elective (e)	characteristics
<i>Tumour Biology</i>	V	1	1	m, e	

4. description of teaching and learning format

Lecture: Interactive lectures with discussion of recent literature

5. qualification/condition for attendance

- *Science degree*
- *interest*

6. applicability

General knowledge about tumour biology, tumour immunology and intervention strategies

7. amount of work and credit points (CPs)

Beispiel:	weeks	hours/week	hours (total)	CPs
<i>lecture</i>	<i>11</i>	<i>1</i>	<i>11</i>	
<i>Exam - test</i>	<i>1</i>	<i>1</i>	<i>1</i>	
<i>Preparation, follow-up for lecture</i>	<i>12</i>	<i>0.5 (30min)</i>	<i>6</i>	
<i>Preparation for exam</i>	<i>2</i>	<i>2</i>	<i>4</i>	
			<i>22</i>	<i>1</i>

8. examination and marking of the course

*Test (MCQ);
Regular attendance (80% if exam passed)*

9. duration of the course

One semester (during term-time); Mon. 8:30 – 9:15, GSH

10. number of participants

minimum: 15, maximum: 45

11. registration

*Register with Brigitte Held
(via the [first-gradschool.de](http://www.first-gradschool.de) website once available)*

12. literature; lecture notes

*Lecture notes available on the FIRST-gradschool-website
<http://www.first-gradschool.de/courses/elective-courses/tumour-biology.php>
and/or handouts*

13. other