Lecture Series on „Molecular Principles of Cancer Development“

8:15–9:45 a.m.  **TP3 (INF 580) Buchleither Seminar room** (Tuesday-Friday)
**Communication Center (Main Bldg.) K1/K2** (Monday)

**Week I (18.04.-25.04.2017)**
- L1 The nature of cancer (Ilse Hofmann) 18.04.2017 (Tue)
- L2 Cellular oncogenes (Marina Schorpp-Kistner/Jochen Heß) 19.04.2017 (Wed)
- L3 Cytoplasmic signaling circuitry programs many of the traits of cancer (Tobias Dick) 20.04.2017 (Thur)
- L4 Tumor suppressor genes (Stefan Wiemann) 21.04.2017 (Fri)
- T Tutorial \(\Rightarrow\) lecture 2 (Marina Schorpp-Kistner/Jochen Heß) 24.04.2017 (Mon)
- T Tutorial \(\Rightarrow\) lecture 3 (Claudia Scholl) 25.04.2017 (Tue)

**Week II (26.04.-02.05.2017)**
- L5 pRb and control of the cell cycle clock (Frank Westermann) 26.04.2017 (Wed)
- L6 Maintenance of genomic integrity and the development of cancer (Odilia Popanda) 27.04.2017 (Thur)
- L7 Moving out: Invasion and metastasis (Sabine Klauck) 28.04.2017 (Fri)
- T Tutorial \(\Rightarrow\) lecture 6 (Violine Goidts) 02.05.2017 (Tue)

**Week III (03.05.-09.05.2017)**
- L8 Eternal life: Cell immortalization and tumorigenesis (Petra Boukamp) 03.05.2017 (Wed)
- L9 Epigenetics and cancer (Christoph Plass) 04.05.2017 (Thur)
- L10 Metabolism and cancer (Alex Vegiopoulos) 05.05.2017 (Fri)
- T Tutorial \(\Rightarrow\) lecture 8 (Karin Greulich-Bode) 08.05.2017 (Mon)
- T Tutorial \(\Rightarrow\) lecture 10 (Aurelio Telean) 09.05.2017 (Tue)

**Week IV (10.05.-16.05.2017)**
- L11 Dialogue replaces monologue: Heterotypic interactions and the biology of angiogenesis (Hellmut Augustin) 10.05.2017 (Wed)
- L12 Tumor microenvironment (Amir Abdollahi) 11.05.2017 (Thur)
- L13 Multistep tumorigenesis (Karim Müller-Decker) 12.05.2017 (Fri)
- T Tutorial \(\Rightarrow\) lecture 12 (Christian Opatz) 15.05.2017 (Mon)
- T Tutorial \(\Rightarrow\) lecture 11 (Andreas Fischer) 16.05.2017 (Tue)

**Week V (17.05.-24.05.2017)**
- L14 Personalized medicine (Stefan Pfister) 17.05.2017 (Wed)
- T Tutorial \(\Rightarrow\) lecture 14 (Christoph Schickhardt) 18.05.2017 (Thur)
- L15 Epidemiology (Rudolf Kaaks) 19.05.2017 (Fri)
- L16 Treatment of cancer (Susanne Weg-Remers) 22.05.2017 (Mon)
- L17 Stem cells and cancer (Andreas Trumpp) 23.05.2017 (Tue)
- T Tutorial \(\Rightarrow\) lecture 15 (Justo Lorenzo-Bermejo) 24.05.2017 (Wed)

The lecture series follows in most parts the book by Robert Weinberg „The Biology of Cancer“. The topics ‘Tumor Immunology’ and ‘Tumor Virology’ will be covered by the lecture series in Module 2.

The content of the lecture series will be examined by a written examination.

**Examination date:** Friday, 2. June 2017; 11:30–13:30, ATV seminar room

Responsible for the organization of the lecture series are Ilse Hofmann, Odilia Popanda, Stefan Wiemann.

The lecture series is also open to registered DKFZ PhD students (lectures only) and other selected external guests.