

Lecture Series on „Molecular Principles of Cancer Development“

lecture time: 8:15–9:45 a.m. location: TP3 (INF 580) Buchleither Seminar room

Unit I (07.04.-15.04.2025)

	Date
L1 The nature of cancer (Ilse Hofmann)	07.04.2025 (Mon)
L2 Cellular oncogenes (Wilhelm Palm)	08.04.2025 (Tue)
L3 Cytoplasmic signaling circuitry programs many of the traits of cancer (Tobias Dick)	09.04.2025 (Wed)
L4 Stem cells and cancer (Andreas Trumpp)	10.04.2025 (Thur)
L5 Dialogue replaces monologue: Heterotypic interactions and the biology of angiogenesis (Hellmut Augustin/ Mahak Singhal)	11.04.2025 (Fri)
T Tutorial ⇒lecture 2 (Jochen Heß)	14.04.2025 (Mon)
T Tutorial ⇒lecture 3 (Claudia Scholl)	15.04.2025 (Tue)

Unit II (16.04.-22.04.2025)

L6 Tumor suppressor genes (Stefan Wiemann)	16.04.2025 (Wed)
L7 Multistep tumorigenesis (Michael Dill)	17.04.2025 (Thur)
T Tutorial ⇒lecture 6 (Ashok Kumar Jayavelu)	22.04.2025 (Tue)

Unit III (23.04.-29.04.2025)

L8 pRb and control of the cell cycle clock (Frank Westermann)	23.04.2025 (Wed)
L9 Maintenance of genomic integrity and the development of cancer (Aurelie Ernst)	24.04.2025 (Thur)
L10 Eternal life: Cell immortalization and tumorigenesis (Ana Banito)	25.04.2025 (Fri)
T Tutorial ⇒lecture 10 (Priya Chudasama)	28.04.2025 (Mon)
T Tutorial ⇒lecture 9 (Violaine Goidts)	29.04.2025 (Tue)

Unit IV (30.05.-06.05.2025)

L11 Tumor immune microenvironment (TIME) (Amir Abdollahi)	30.04.2025 (Wed)
L12 Epigenetics and cancer (Daniel Lipka)	02.05.2025 (Fri)
T Tutorial ⇒lecture 11 (Christiane Opitz)	05.05.2025 (Mon)
T Tutorial ⇒lecture 12 (Mark Hartmann)	06.05.2025 (Tue)

Unit V (07.05.-16.05.2025)

L13 Personalized medicine (Stefan Pfister)	07.05.2025 (Wed)
L14 Metabolism and cancer (Aurelio Teleman)	08.05.2025 (Thur)
L15 Epidemiology (Rudolf Kaaks)	09.05.2025 (Fri)
T Tutorial ⇒lecture 15 (Justo Lorenzo-Bermejo)	12.05.2025 (Mon)
T Tutorial ⇒lecture 13 (Johanna Wagner)	13.05.2025 (Tue)
L16 Moving out: Invasion and metastasis (Heiko Weyd)	14.05.2025 (Wed)
L17 Treatment of cancer (Susanne Weg-Remers)	15.05.2025 (Thur)
L18 Molecular pathological epidemiology (Michael Hoffmeister)	16.05.2025 (Fri)

The lecture series follows in many 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.

Exam: Wednesday 28.05.2025, 9:30 a.m. (90 min exam time), ATV/IIC Large Seminar Room

Responsible for the organization of the lecture series is Ilse Hofmann.

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