

**15<sup>th</sup> Workshop Epigenetics@DKFZ**  
Monday, 13 January 2025, DKFZ Lecture Hall

Organizers: Christoph Plass, Karsten Rippe, Angelika Feldmann, Karol Nowicki-Osuch  
Please register at <https://indico.dkfz.de/event/1187/> if you want to attend.

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<b>9:00 – 9:20</b>	<b>Welcome: Christoph Plass, Karsten Rippe &amp; Angelika Feldmann:</b> Epigenetics@DKFZ 2024
<b>Presentations 15 min + 5 min discussion</b>	
<b><u>SESSION 1: Epigenetic mechanisms of transcription regulation (Chair: Karsten Rippe)</u></b>	
<b>9:20 – 9:40</b>	<b>Afroditi Sotiriou (B380):</b> Alternative transcriptional activation mechanisms in synovial sarcoma
<b>9:40 – 10:00</b>	<b>Katherine Kelly (B370):</b> Quantifying epigenomic heterogeneity in single-cell data with EpiCHAOS
<b>10:00 – 10:20</b>	<b>Arnaud Krebs or Gianluca Sigismondo: TBC</b>
<b>10:30 – 11:00 Coffee break</b>	
<b>11:00 – 12:00</b>	<b>Keynote lecture (chair: Thomas Höfer):</b> <b>Anjana Rao</b> (La Jolla Institute for Immunology, USA): Time resolved multifactorial chromatin profiling in single cells
<b>12:00 – 13:30 Lunch break (individual)</b>	
<b><u>SESSION 2: Chromatin features and their function (Chair: Christoph Plass)</u></b>	
<b>13:30 – 13:50</b>	<b>Jan Fabio Nickels (B066):</b> Modeling epigenetic regulation and biostability
<b>13:50 – 14:10</b>	<b>Timothy En Haw Chan (FR02-DKTK):</b> MLL4/KMT2D histone methyltransferase and JUNB cooperatively regulate AP-1 dependent TGF- $\beta$ signalling in a feed-forward loop
<b>14:10 – 14:30</b>	<b>Abigail Suwala (B300, UKHD):</b> Epigenetic Dynamics in IDH-Mutant Glioma Progression
<b>14:30 - 14:50</b>	<b>Stefania Del Prete (B270):</b> CTCF binding sites evolve through DNA methylation erosion
<b>15:00 – 15:30 Coffee break</b>	
<b><u>SESSION 3: Exploiting epigenetics for prevention and early detection of cancer (Chair: Angelika Feldmann &amp; Karol Nowicki-Osuch)</u></b>	
<b>15:30 – 15:50</b>	<b>Karol Nowicki-Osuch (C150):</b> Epigenetic regulation of transcriptional programs preceding cancer development
<b>15:50 – 16:10</b>	<b>Maximilian Schönung (B340):</b> DNA methylation based leukemia diagnostics
<b>16:10 – 16:30</b>	<b>Zoe Saßmannshausen (A130):</b> Modular deconstruction of epigenetic clocks for skin cancer prevention
<b>16:30 – 16:50</b>	
<b>16:50</b>	<b>Closing remarks: Karol Nowicki-Osuch</b>

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