

Perspective Lecture:
“Metabolism – The new frontier in cancer precision medicine”

Speaker:
Prof. Dr. Dr. Alpaslan Tasdogan

Date:
January 27th, 2026 at 5.30 pm

Location:
**Haus 23-4, University Hospital
Frankfurt**



Summary:

Prof. Tasdogan is an attending physician in the Department of Dermatology at the University Hospital Essen, where he also serves as the Head of the Institute for Tumor Metabolism. His research group focuses on understanding the metabolic adaptations that occur during melanoma metastasis across various cancer models, including patient-derived samples.

The laboratory's overarching goal is to uncover how metabolic reprogramming contributes to cancer progression, therapy resistance, and tumor heterogeneity. To achieve this, Aslan and his team employ state-of-the-art analytical technologies such as gas chromatography–mass spectrometry (GC-MS), liquid chromatography–mass spectrometry (LC-MS), spatial metabolomics, and stable isotope tracing. These advanced approaches enable comprehensive mapping of metabolic pathways and spatially resolved metabolic profiling within tumor tissues.

Through their interdisciplinary research, the lab aims to identify novel metabolic vulnerabilities that could serve as potential therapeutic targets and improve our understanding of melanoma biology in both experimental and clinical contexts.