



ISM Lunchtime Seminar Series

The ISM Lunchtime Seminars are online monthly events, which take place on Thursdays, 13:00-13:30h, and are open to all interested colleagues and students. ISM researchers and guest speakers present their work during a **15 min** seminar, in the English language, followed by a brief Q&A session.

We are happy to announce our next speaker: Dr. Deeksha Malhan from the research group of Prof. Dr. Angela Relógio.

Title: PARP Inhibitor-Induced Circadian Rhythm Alterations in Ovarian Cancer Patients: Correlation with Treatment Side Effects.

Abstract:

Ovarian cancer is among the most lethal cancers in women worldwide. In recent years, PARP inhibitors emerged as a promising therapy for ovarian cancer patients by targeting DNA repair pathways. Interestingly, PARP1 interacts directly with the CLOCK-BMAL1 complex, a key component of the circadian clock network. In this study, we thus aimed to characterize the circadian clock-associated alterations among patients with high-grade ovarian cancer undergoing PARP inhibition (rucaparib) vs. placebo maintenance therapy following platinum-based chemotherapy and bevacizumab maintenance and explore the potential mechanism via which the administration of therapy based on the patient's circadian clock -chronotherapy- may contribute to better-reduced toxicity and outcomes. In this subproject, a total of 15 patients with primary advanced high-grade ovarian cancer (10 Rucaparib; 5 Placebo) were recruited for the molecular profiling of the circadian clock. Gene expression and circadian analysis showed significant differences in ARNTL and PER2 expression between treated vs non-treated (placebo) patients. Whether these changes in the circadian profile are linked with the drug dosage and adverse events is currently being explored.

When: 20th June 2024 at 13:00h

Where: MS-Teams (to join, please click [here](#))

Please follow the rules below to make these seminars a success:

- Please use your real name while entering the meeting. Participants with cryptic names will not be given access to the seminar.
- Please turn off your microphone while the seminar is taking place.
- Please feel free to ask questions!

Contact information: Please contact [Dr. Annakarina Mundorf](#) or [Dr. Deeksha Malhan](#) for further information.