



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: Prof. Dr. Angela Relógio, Professor for Systems Medicine and Biostatistics

Title: Timing treatment: profiling the circadian clock and optimizing treatment timing in cancer.

Abstract: The biological clock (circadian clock) regulates several aspects of physiology and behaviour and plays a vital role in human health. About half of all human genes are rhythmically expressed in at least one tissue, and the time for certain activities such as sleep, exercise, or medicine intake, can be optimized based on the internal circadian rhythm. Recent studies, including work from our group have highlighted a role for clock dysregulation in several hallmarks of cancer related to cell cycle, apoptosis or metabolism. Thus, scheduling anticancer drug administration over 24h may critically impact treatment success in a drug- and patient-specific manner.

Our results suggest that, in addition to clock and pharmacological gene expression, the circadian dynamics of translation and cell death, plays an important role in the timing of drug toxicity. Systems biology approaches addressing the personalization of cancer chronotherapies are needed for patient benefit, and can be used to support personalized treatment scheduling, by predicting personalized drug toxicity based on the patient's gene or protein expression profiles.

When: 20th April 2023 at 13:00 h

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. Deeksha Malhan](#) or [Dr. Annakarina Mundorf](#) for further information.