



## ISM Lunchtime Seminar Series

The ISM Lunchtime Seminars are online monthly events, which take place on Thursdays, 12:00-12:30h, and are open to all interested colleagues and students. ISM researchers and guest speakers present their work during a 15 min seminar, in English language, followed by a brief Q&A session.

We are happy to announce our first speaker: Dr. Janina Hesse from the research group *Circadian Medicine and Systems Biology* (AG-Relógio).

**Title:** Chronotherapy in a dish: Time-dependent toxicity of a cancer drug

**Abstract:** Many biological processes oscillate over about 24 hours. These so-called circadian rhythms also affect drug metabolism. As result, treatment can be more efficient when medication is timed appropriately, an approach called chronotherapy. The optimal chronotherapeutic timing depends however not only on the time of the day but also on personal characteristics like sex, for example. We observe that already two human cell lines show different optimal treatment times in response to the cancer drug irinotecan. The differences can be captured by a computational model for drug action, which relates circadian gene expression profile to optimal treatment time. In principle, this highlights the potential of modeling for the personalization of chronotherapy.

**When:** 20<sup>th</sup> Jan 2022 at 12:00h

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

