



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. Jan Beucke, Professor in Medical Psychology.

Title: The long-lasting neurogenetic signature of combat exposure

Abstract: Traumatic stress change amygdala circuitry and gene expression in animals, but it is unclear whether the exposure induces persisting or reversible changes. In humans, rare longitudinal evidence suggests that combat exposure induces increased amygdala responsivity weeks after combat exposure, which appears to normalize months after deployment to combat zone, whereas changes in amygdala connectivity persist. Currently, data on effects of traumatic stress late in life, decades after the exposure, is missing. Here, we investigated amygdala responsivity in a unique dataset of monozygotic twin pairs in their sixties, where one but not the other sibling had been exposed to combat stress in young adulthood, thereby controlling for confounding effects of genetic factors, gene-by-age interaction, and symptoms of post-traumatic stress disorder (PTSD). Combat stress induces significant lasting neurogenetic changes which can be observed late in life, several decades after the exposure, in absence of PTSD symptoms.

When: 20th October 2022 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.