

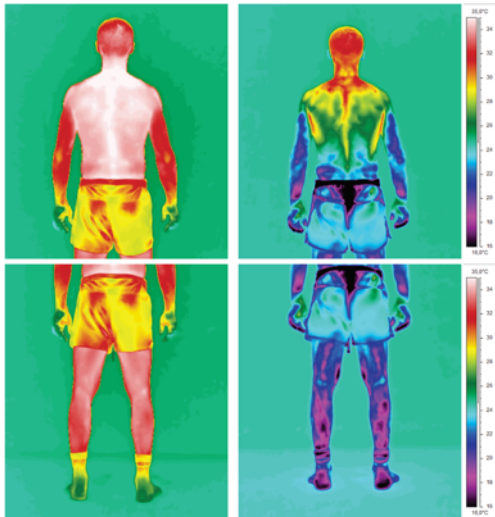
Institute of Biomedical Engineering

Faculty of Science and Technology,
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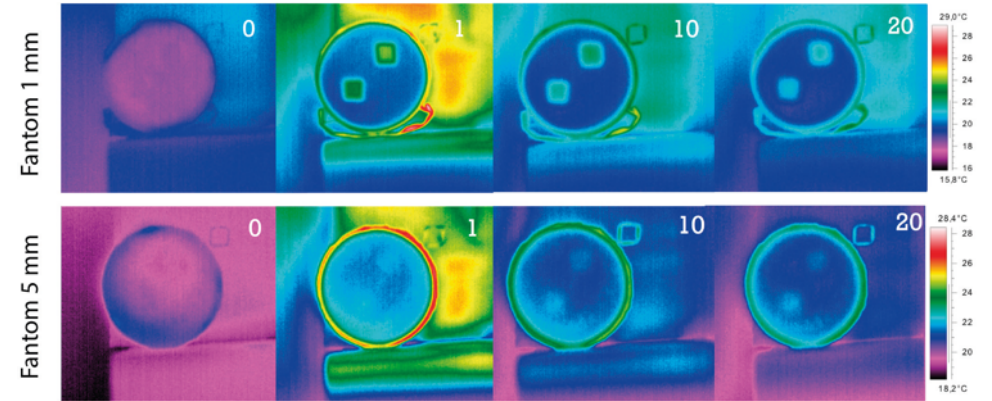


Thermovision

- Portable FLIR SYSTEMS (T1020, T640, T540, E60)
- Active thermography IRNDT (camera FLIR A40, software IrNDT, halogen source)
- Callibrants

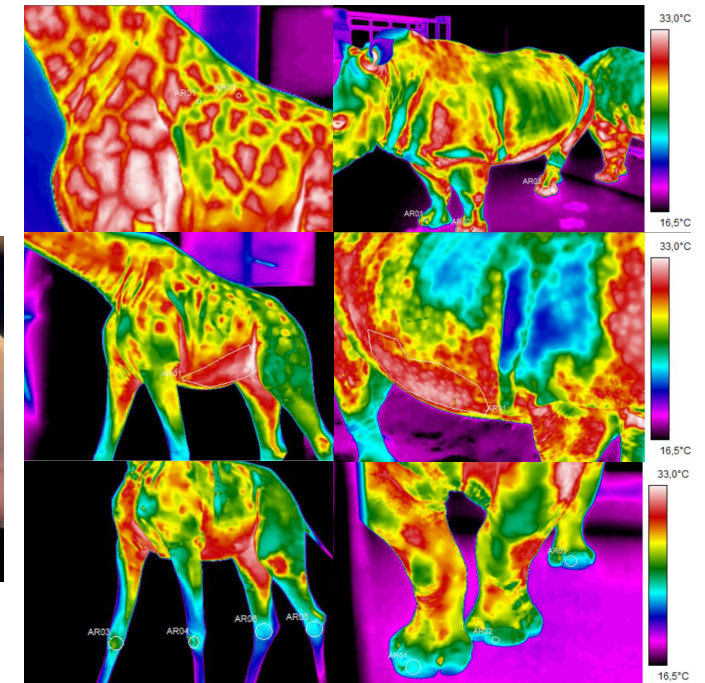


◀ Jednoosobowa komora kriogeniczna, CryoSpace (JBG-2, Polska)
Zastosowanie w pomiarach sportowców i wpływu kriostymulacji jako metody regeneracji organizmu po ekstremalnym wysiłku



▲ Nieniszczące badania struktur, technika IRNDT

▼ Badania wyjazdowe, współpraca z ZOO Śląskim

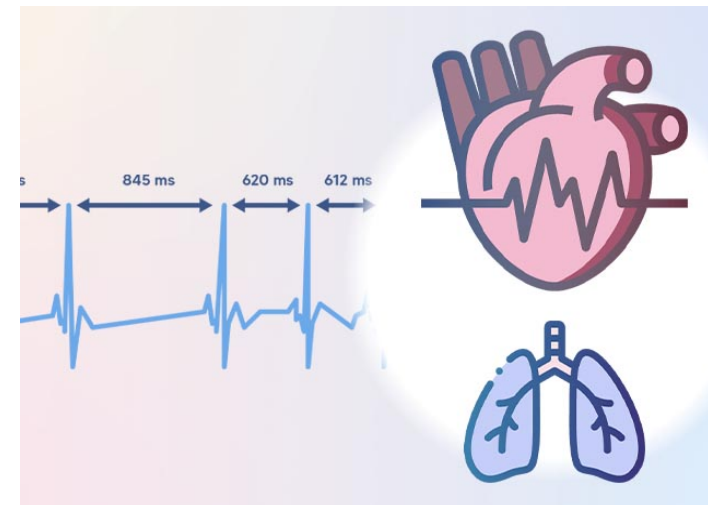


Żyrafy

Nosorożce

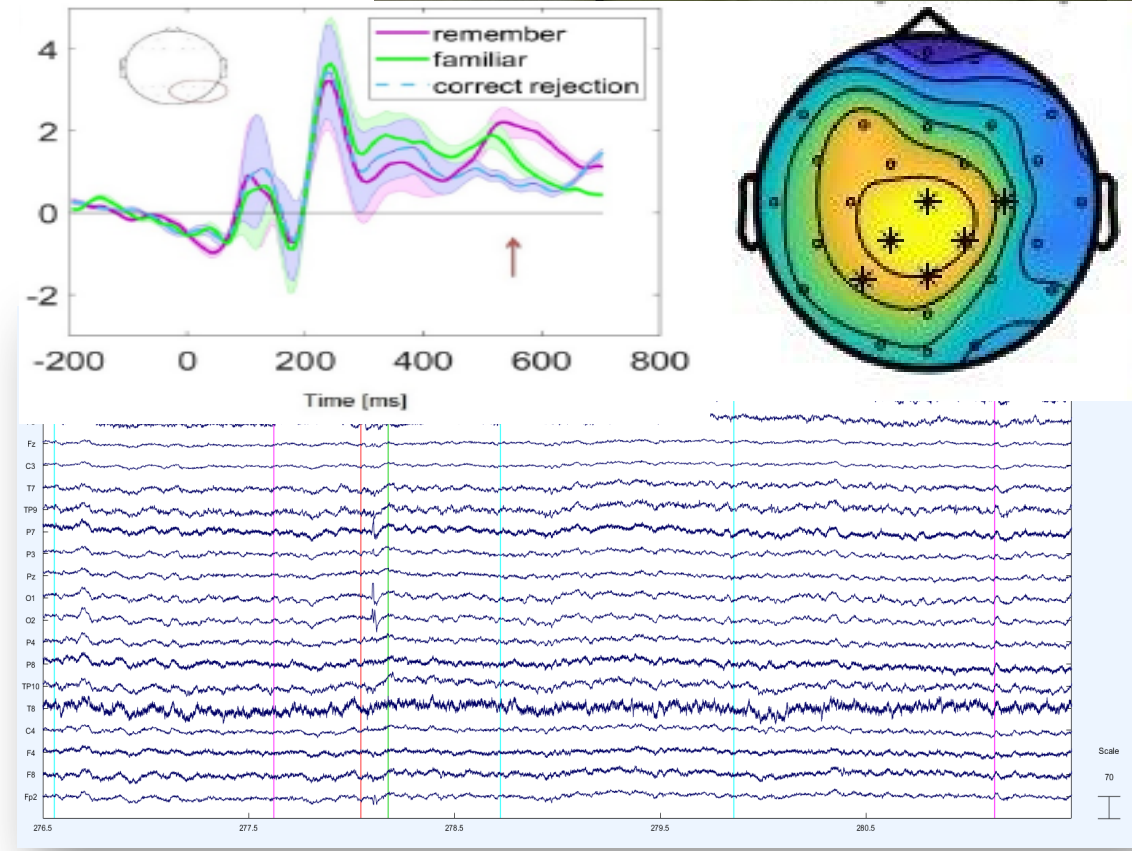
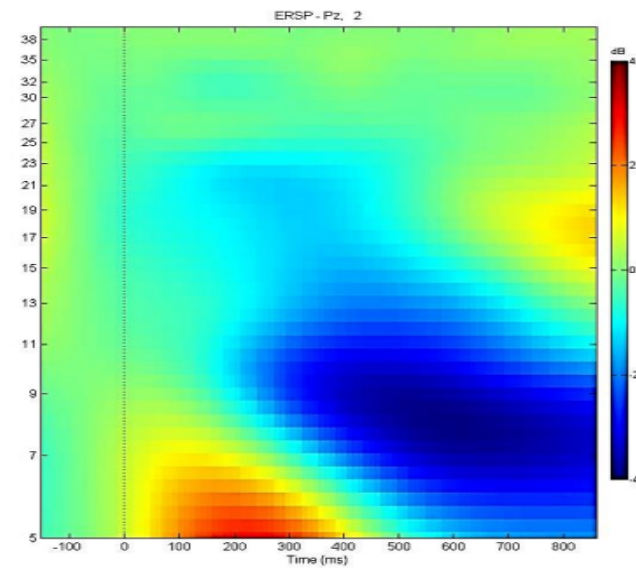
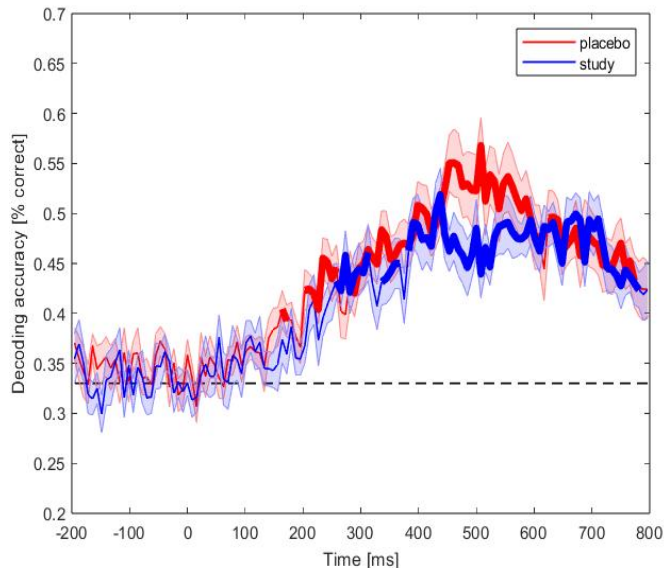
Labs related to the processing and analysis of biomedical signals

- EEG Lab
- Biomedical Signals Lab
- MoBI (mobile brain/body imaging) Lab
- What we do:
 - Processing and analysis of brain electrical activity (EEG and ERP) and other biomedical signals (EDA, ECG/HRV, EMG, CFF) in cognitive neuroscience (attention, memory, language processing)



EEG Lab

- 32-channel EEG system (ANT Neuro, Netherlands)
- VR HMD (Meta Quest Pro)
- Event-related potentials (ERPs), rsEEG, T-F analysis
- VR/EEG
- Decoding ERPs



Biomedical signals Lab

- **MP 36R 4-channel system for physiological signals (Biopac Inc., USA)**
- Processing and analysis of: EMG (also facial EMG), EOG, EDA, ECG and HRV
- fEMG and EDA in the study of sex-related variability in the episodic memory



MoBI Lab

- MP160 16-channel system for physiological signals (Biopac Inc., USA)
- Dual Wireless Respiration and ECG BioNomadix module (Biopac Inc., USA)
- Studies of mobile ECG and respiratory signals

