

Prof. York Winter

Faculty of Life Sciences

Department of Biology

Cognitive Neurobiology



Expertise

Prof. Winter's research is focused on animal behaviour, especially cognitive performance, e.g. learning ability, memory and their neurobiological foundation for foraging. He carries out behavioural assessments for mice and rats, mostly for preclinical research, to investigate decision-making processes in animals. Lab space is available, inter alia at the Berlin Mouse Clinic for Neurology and Psychiatry (BMC), one of the leading diagnostic institutions within the NeuroCure Cluster of Excellence. Prof. Winter and his team also advise on experimental design and develop automated equipment and systems for behavioural studies on rodents for external laboratories. Another area of his expertise is virtual reality for humans. Here Prof. Winter focuses on the development of a compact, mobile, and immersive virtual reality environment for a wide range of uses.

Scientific Services

Behavioural analysis:

- Computer controlled sensor and actuator systems for manipulation and measuring of behaviour
- Modular software system for automated measuring of behaviour
- RFID technology

Virtual reality:

- Immersive 3D-virtual reality system with closed monitoring (octagon)
- Software for rapid implementation of specific VR-applications and interaction scenarios

Testimonials

- Planning and development of a system for automated diagnostics of parameters for motor skills after clinical surgery for a large international pharmaceutical group. 24h recording and measurement as operator independent system.

Topics / Trends

Ageing
Big Data & Data Management
Biomolecules
Genome / Genetics
Health
Co-operation & Decision Making
Pharma(ceuticals)
Rehabilitation

Scientific Institution

Berlin Mouse Clinic for Neurology
and Psychiatry

Industries

Healthcare & Life Sciences

Mentor for Startup

PhenoSys
Tech InnoSphere GmbH

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