



Tutorial

Visualization and quantitative analysis of animal locomotion using the track analysis software Wintrack

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Duration

90 min

Benefits

You will gain an impression of the wealth of information contained in the data that is recorded from moving animals by commonly available video tracking systems. The tutorial will introduce you to a powerful tool that helps to extract more of this information in order to improve the interpretation of behavioral experiments.

Features

Participants will be introduced to

- principles of track analysis
- a simple drag and drop interface for quick analysis and visualization of track data
- script-based advanced analysis and event extraction
- automated processing of large volumes of data using macros
- interfacing with video tracking systems, statistics and presentation software
- track analysis beyond video cameras using GPS-receivers

Audience

Of special interest to people who are already using a video tracking system to analyze their behavioral experiments, but who need more power and flexibility for quantitative analysis and want to improve the visualization of the recorded data.

Presentation

Lecture and practical demonstration followed by questions and answers session

Instructor

David P. Wolfer, MD has been using genetic mouse models for 15 years to investigate the neural mechanisms of learning. He is vice-chair of the Division of Neuroanatomy and Behavior at the Institute of Anatomy, University of Zurich, and author of the public domain track analysis software Wintrack (www.dpwolfer.ch/wintrack). He has been involved as instructor and organizer in several international courses on behavioral phenotyping of mice (Cold Spring Harbor Laboratory, European Molecular Biology Organization).