LoliTrack v5
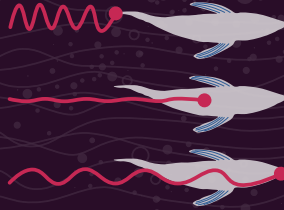
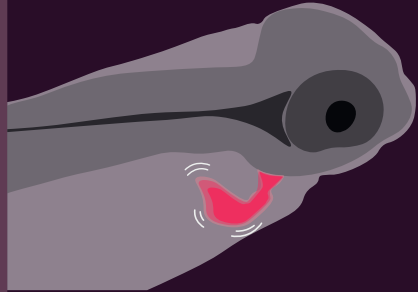Video tracking and behavior analysis software

MULTIPLE INDIVIDUALS

KINEMATICS

HEAT MAPPING

HEART RATE

Loligo® Systems

FEATURES

- No subscription fees. Free updates. Install on multiple computers.
- Track single and multiple free-ranging animals
- Contrast or background subtraction tracking (no markers needed)
- Any size or shape of arena, e.g., maze, tank, pen, chamber, etc.
- Works with most video cameras and file formats
- Track tiny organisms in 24-, 48-, and 96-well microtiter plates
- Built-in video recorder and editor
- Setup multiple zones of interest
- Analyze entire videos or just user-defined intervals
- Data output for individuals, treatments, and zones
- Track specific body points for kinematic studies or biomechanics
- In-depth analysis tools with customizable graphs
- Export data (to Excel), images, and videos
- Frequency tool for heart rate, ventilation, and tail beat frequency
- 3D tracking with exportable coordinates and trajectories
- Batch analyze multiple videos to save time
- Correct tracking errors with ease
- Fast performance on regular office PCs
- Genuine Windows 11 64-bit software

APPLICATIONS

- Microplate analysis (e.g., ZF embryos)
- Behavioral phenotyping (focal animals)
- Rodent assays (e.g., maze, open field)
- Group behavior (e.g., insects, fish)
- Locomotory behavior (e.g., kinematic)
- Social and sexual behaviors

PARAMETERS

- Active/Inactive
- Acceleration
- Bend
- Direction of movement
- Direction of orientation
- Distance moved
- Distance to center of zone
- Frequencies (tail beat, heart rate etc.)
- Inter-Individual Distance
- Nearest Neighbor Distance
- Speed
- Turning rate movement
- Turning rate orientation
- Velocity
- X/Y position (raw and calibrated)

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