

BIOSEB

In Vivo Research Instruments

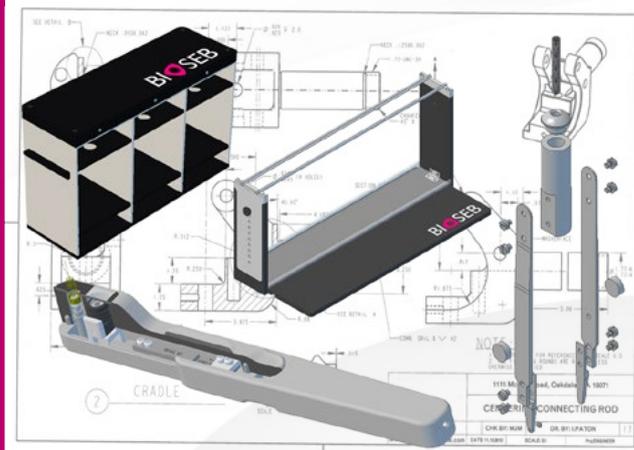
Bioseb is the leading manufacturer of research instruments for in-vivo pain study and recognized worldwide for its innovative developments in close collaboration with researchers.

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SPECIAL DEVELOPMENTS

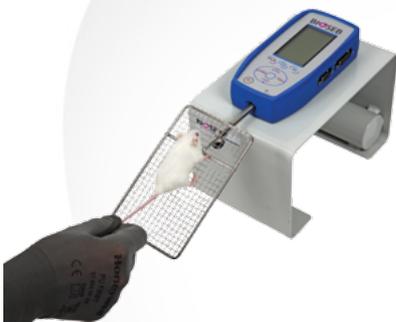


We are proud of our partnerships with public & private research labs, which enable us to develop innovative instruments tailored to your needs, like the Electronic Von Frey with embedded camera or the Whirlpool bath.

To help you achieve 3R compliance, we develop dedicated acquisition & analysis software, limiting operator-induced variability and reducing the number of animals used.

Contact us to participate in validations and improvements and develop new tests based on your ideas and needs.

MOTOR-CONTROL & COORDINATION



Grip strength test

A robust device to quantify the muscular strength of rodents.



ROTAROD

Fully automated for rat, mice and dual species. Optional software available.



Automatic Ladder Test

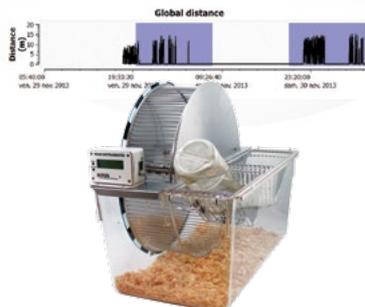
Video software for detecting and scoring errors for each paw.

SPONTANEOUS & FORCED ACTIVITY



Home cage ActiVMeter

Recording animals' activity, rearing and climbing during night and day.



Activity Wheels

Stand alone or connected to a computer, recording the distance travelled.



Treadmills

Full range for mice & rats from 1 to 5 lanes - forced exercise training & acute fatigue testing.



Whirl-Pool Test

Controlled whirlpool bath to improve rodent endurance or develop cardiovascular resistance.

NON-EVOKED PAIN & POSTURAL DEFICIT

GAIT ANALYSIS



Static Weight Bearing test
Measure the weight bearing force for rear paws and display both curves.



Dynamic Weight Bearing test
Weight bearing force on each paw & other postural parameters on a freely moving rodent.



KWB: Kinetic Weight Bearing test
Detect & record true individual weight bearing forces & all other gait analysis parameters.

PAIN - MECHANICAL ALLODYNIA/HYPERALGESIA



Video Electronic Von Frey
Stimulator with camera: easy targeting & video recording for test analysis.



Von Frey Test Platform
Complete setup incl. frame and 2 cages, to be used with VF filaments or Electronic VF.



Vetalgo: Big Animals Algometer
Portable, hand-held algometer to evaluate pain on cats, dogs, pigs & horses.



ALL-IN-ONE
One single screen to read 4 plug-and-play stimulators



Electronic Von Frey
Quickly determine the mechanical sensitivity threshold in rodents (rats and mice).



Rodent Pincher
Instrumented forceps to evaluate pain of joints, tails or paws (mice/rats).



Static Weight Bearing (Deluxe All-in-One)
Measure supporting forces for rear paws and display curves.

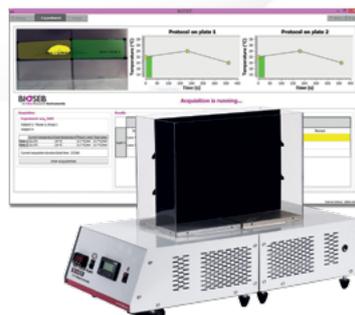


Smalgo Algometer
Designed for pain evaluation of small animals joints and backs.

PAIN - THERMAL ALLODYNIA / HYPERALGESIA



Cold Hot Plate
Provides constant temperature or dynamic ramps from -2°C to 55°C.



Two Temperature Choice Test
Track animal position while experiencing two temperature paradigm.



Thermal Gradient Test
Automatically track the position of a rodent exposed to a gradient of temperature.

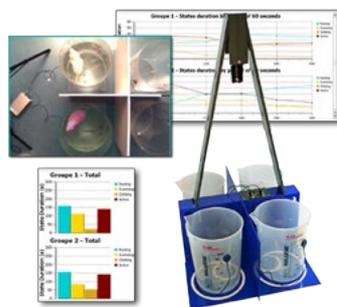


BEHAVIOR, ANXIETY & DEPRESSION



Tail Suspension Test

Original design by Porsolt et al. Automated version with up to 6 mice and USB port.



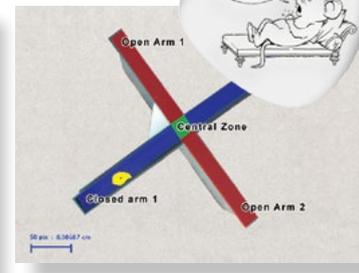
Forced Swimming test

Automated version combining vibrations and video. Completely operator-independent.



Automated Open Field

Track the animal in 3 dimensions & detect rearing in all light conditions.



Elevated Plus Maze

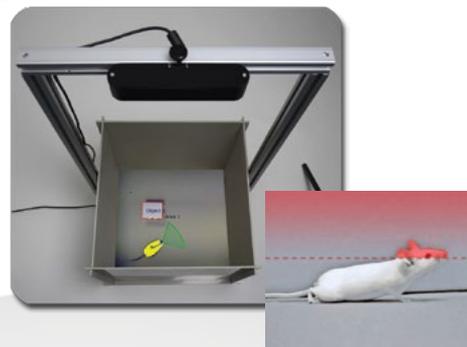
Open and closed sections for study of anxiety, with fully automated software.

LEARNING - MEMORY - ATTENTION - ADDICTION



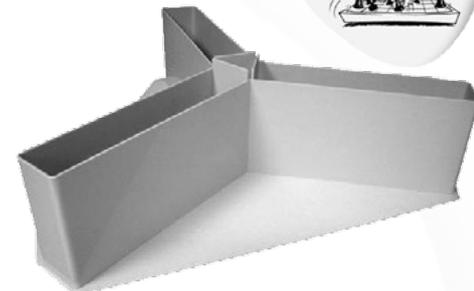
Startle & Fear Conditioning

Fully automated system based on high sensitivity weight transducers.



3D Novel object recognition

Auto video tracking: record recognition events, sniffing & angle of vision in front of novel object.



Y-Maze: Working Memory Test

Y-shaped maze to study the decision behavior for memory evaluation.



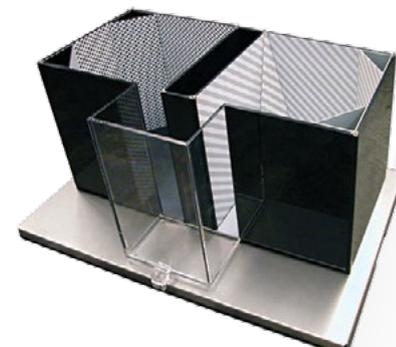
Shuttle Boxes (Active & Passive)

Ideal to carry out conditioned reflexes in learning and memory studies.



Operant & Behavior Modular System

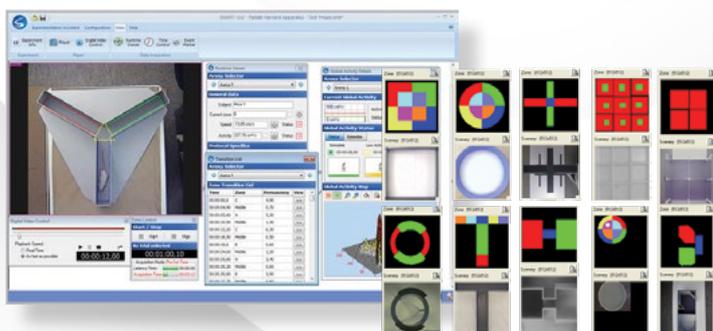
Conduct operant conditioning procedures: food reinforcement, DMTS, conflict tests...



Spatial Place Preference

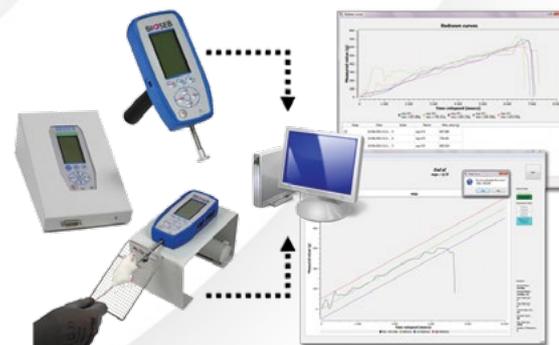
Versatile arena for place preference and aversion studies in mice and rats.

SOFTWARE



Smart Video tracking software

Flexible, easy-to-use software for the automated evaluation of animal behaviour. Accurate tracking in a wide range of arenas.



BIO-CIS multiple instruments software

Improve the repeatability of reflex nociceptive tests: real-time display of force/time curves, data import from internal memory.

SERVICES

Our work starts upstream, thanks to our partnerships with research institutes, by developing innovative solutions matching your needs - but our mission also extends downstream by offering you the best support available.

Whether you need calibration certificates, or want us to come to your lab to install your equipment, our team is by your side. We provide environmental measurement tools to ensure results quality, and our support force will help you fine-tune both hardware & software use. From concept to support over calibration and installation: your partnership with Bioseb is a long-term symbiosis.



BIOSEBLAB



It is with great pleasure that we are introducing our new website, dedicated to your laboratory needs: www.bioseblab.com

The variety and exhaustiveness of our product categories - from anesthesia to tubing, by way of surgical instruments and temperature control systems as well as animal identification tools - make us the indispensable companion for your laboratory equipment orders.

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