

CLIMBING TEST

Measures vertical activity in rodents



ugo basile®

YOUR COMPANION IN
DISCOVERY SINCE 1963

CLIMBING TEST

SKU 36103

Climbing behavior in rats and mice is a key activity and a multifaceted aspect of their biology, much less studied than X-Y locomotion.

The first application of climbing measurement has been in the pain field comparing the effect of mild and strong analgesics, by the group led by Prof. Sidney Neegus from Virginia University.

(Santos et al. 2023, Climbing behavior by mice as an endpoint for preclinical assessment of drug effects in the absence and presence of pain, Frontiers).

From the collaboration between Prof. Neegus and Ugo Basile this new device was born, opening a very broad range of investigation opportunities given the importance, and yet little studied, of climbing



ugo basile®
YOUR COMPANION IN
DISCOVERY SINCE 1963



CLIMBING TEST

SKU 36103

The Test provides a **measurement of the vertical movement of rodents**, a parameter which has not been widely investigated so far, in spite of the fact that **rodents are animals that live in a 3D space** and hence the analysis of XY position only is a limitation in most current studies, neglecting Z movements.

In terms of applications we foresee potential use in many fields including:

- Ethological Perspective
- Behavior and Physiology
- Environmental Enrichment
- Research Models
- Disease Models



ugo basile®
YOUR COMPANION IN
DISCOVERY SINCE 1963

CLIMBING TEST

SKU 36103



12 cm diameter aluminum circular base

Base temperature adjustable from 5 to 60°C

Force cell underneath it provides the automated start of the test



ugo basile®

YOUR COMPANION IN
DISCOVERY SINCE 1963

CLIMBING TEST

SKU 36103



Climbing cylinder 25,5 cm height

Complete with ceiling



ugo basile®
YOUR COMPANION IN
DISCOVERY SINCE 1963



CLIMBING TEST

SKU 36103



Output parameters include:

- % of climbing
- number and duration of climbing episodes
- climbing time
- maximum and average climbing height
- total activity while climbing



ugo basile®

YOUR COMPANION IN
DISCOVERY SINCE 1963

