

Functional Area of Physiology and Behavior

Behavioral and Morphological Analysis



First Floor - EAST wing, #147

The **Behavioral and Morphological Analysis** area is equipped with instruments suitable for the morphological characterization and analysis of the behavior of large and small marine organisms. The available equipment includes: ultrasound machine, microscopes (stereo- and fluorescence), video recording analysis and high-throughput systems for behavioral tests in larvae.

Manager: *Pamela Imperadore*
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Bookable instruments	Description	
Microdissettore laser <i>Leica LMD7</i>	Laser microdissection (LMD) allows users to isolate specific single cells or entire tissue areas. LMD is commonly used in genomics (DNA), transcriptomics (mRNA, miRNA), proteomics, metabolomics, and next-generation sequencing (NGS). The system consists of a powerful fluorescence microscope that can be used even with the laser system turned off.	
Stereomicroscope <i>Leica MZ16</i>	High-performance stereomicroscope with 16:1 zoom, fully apochromatic Leica MZ16 A	
Fluorescence Microscope <i>ZEISS Axio Imager 2</i>	Upright microscope for examination in fluorescence and transparency microscopy equipped with ApoTome cursor system (increased axial resolution).	
Ultrasound Machine <i>Toshiba Nemio 10</i>	Black-and-white OB/GYN ultrasound from Toshiba's "Nemio" series of ultrasound machines. It has 2D and M-Mode Imaging option.	
Behavioral analysis system for tracking <i>DanioVision Noldus</i>	DanioVision is a complete system, designed for the high-throughput testing of larvae in multi-well plates. It includes the Observation Chamber and renowned EthoVision XT video tracking software.	

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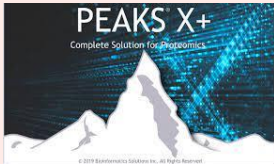

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Behavioral analysis system from video recording	System for analysis of 'post-hoc' behavior from analog and digital video recordings (on tape); the system supplied allows analysis in still image (25 fps) and slow-motion.	
WORKSTATION PEAKS X+	Workstation equipped with PEAK STUDIO X+ license (<i>Bioinformatics Solutions Inc.</i>) for LC-MS/MS proteomic data analysis. Users have access to a complete software with workflows and tools for any type of proteomic data analysis.	
WORKSTATION ILLUSTRATOR	Workstation equipped with Adobe Illustrator license, software for image processing and vector graphics.	
WORKSTATION PHOTOSHOP	Workstation equipped with Adobe Photoshop license, proprietary software specialized in the processing of photographs and, more generally, digital images.	