Functional Genomics Area
Gene Perturbation

Second floor – East Wing, #244

Manager: *Mara Francone*
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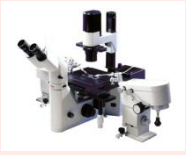
The **Gene Perturbation** platform is equipped with the necessary equipment for the transformation and culture of embryos of marine organisms.
The area is equipped with: a puller to prepare microinjection needles, an electroporator and n. 3 microinjection setups necessary for the transformation of zygotes.
There are also n. 3 refrigerated incubators and a thermostatic chamber (walk-in) for the growth of embryos at the required temperature (typically 15, 18 and 20°C).

Bookable Instruments	Description	
Electroporator ***BioRad Gene Pulser II***	It is a modular system to transform any type of eukaryotic cell thanks to an electrical impulse transmitted to the cells through a special electroporation chamber.	
Puller ***Sutter P-97***	It is a specific tool for making micropipettes and microinjection needles that combines a precise mechanical system with a programmable microprocessor, which allows to obtain a wide range of needles suitable for various needs, ensuring reproducibility.	
Microinjection setup 1	***Under construction***	
Microinjection setup 2	***Under construction***	
Microinjection setup 3	***Under construction***	

Book on www.labagenda.com

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Bookable instruments	Description	
Refrigerated incubator ***Panasonic***	Suitable for a wide range of applications that require a temperature range of 10/60°C. The control unit allows you to set 10 programs of different temperature/time cycles. Equipped with internal fluorescent lighting lamp.	
Refrigerated incubator ***Memmert***	It is particularly suitable for air thermostating below room temperature. Thanks to the forced air circulation, a series of digital control devices and an internal data logger, the system allows constant monitoring of temperature.	
Refrigerated incubator ***VELP Scientifica***	It keeps the internal temperature constantly controlled thanks to a dedicated software that continuously compares the current value to the set temperature value and aligns them by means of a rapid and precise system.	
Walk-in	The chamber, usually at a temperature of 18°C, with a programmable light cycle, is equipped with: stereomicroscope, tilting agitator and thermostated bath.