
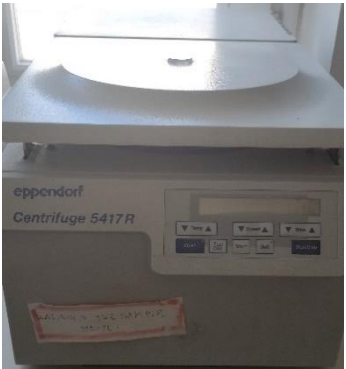





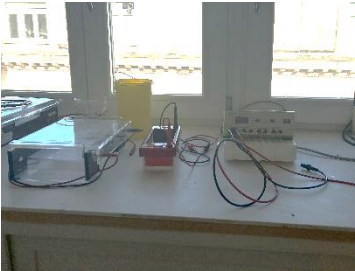




Molecular Ecology Area

Molecular Ecology Area: Camilla Borgonuovo

The **Molecular Ecology** area is a space currently organized in 4 rooms at the Naples centre. The area allows users to process samples for nucleic acid isolation and subsequent analyses such as PCR, sequencing and gene expression studies. The equipment in the room #340, bookable [here](#), are listed below.

Bookable instruments	Description	
Thermocycler	This instrument conduces custom cyclic temperature changes for the enzymatic amplification of DNA sequences in vitro via polymerase chain reaction (PCR).	
Refrigerated Centrifuge EPPENDORF 5417R	This centrifuge has 24 slots for 1.5/2ml tubes.	
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<p>Thermostatic water bath</p>	<p>To incubate samples contained in 1.5/2/15/25 ml tubes.</p>	
<p>Rocking platform shakers</p>	<p>Rocking shaker with adjustable speed for smooth mixing tasks for homogeneous mixing in flasks, culture flasks, Petri dishes and tubes.</p>	
<p>Thermoblock</p>	<p>To incubate samples contained in 1.5/2 ml tubes.</p>	
<p>Chemical hood</p>	<p>This hood is dedicated for purification of nucleic acids. The reservation of the hood, for safety reasons, is for one user. Under the hood there is a thermoblock to incubate and/or shake samples contained in 1.5/2 ml tubes.</p>	
<p>Gel Electrophoresis System</p>	<p>Gel Electrophoresis System is available for running nucleic acids, PCR products, etc. The system is placed on the bench set up to prepare gels, carry out the electrophoretic run and visualize the gel on the UV light transilluminator.</p>	

Qubit fluorometer	<p>The Qubit fluorometer is a lab instrument that is used for the quantification of DNA, RNA, and protein. Specific reagents are required to quantify samples:</p> <p>DNA RNA Proteins</p>	 A Qubit fluorometer, a handheld laboratory instrument used for quantifying DNA, RNA, and protein. It features a black body with a red accent at the bottom and a small LCD screen displaying a menu with options like 'DNA', 'RNA', and 'Protein'.
Gene Gun	<p>This tool allows to transfer exogenous genetic material inside cells. The reservation and use of this tool is agreed with Dr. Ferrante and the RAF.</p>	 A Gene Gun, a laboratory instrument used for electroporation. It consists of a black base unit with a control panel and a white, rectangular chamber that is open, revealing internal components. A pressure gauge is visible on top of the chamber.