




# 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 #140 and in the front corridor #150 (east wing), 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).	
Mini Centrifuge	This centrifuge has 12 slots for 1.5/2ml and PCR tubes.	
NanoDrop One	This instrument allows an accurate reading of the quantity and quality of DNA, RNA and proteins using 1 to 2 µL of sample. For the first access to this tool it is necessary to contact the RAF.	

<p>Refrigerated Centrifuge 5920 R</p>	<p>This centrifuge has swinging-bucket rotors and adapters to accommodate tubes various sizes, from 0.2 mL to 50 mL.</p>	 A white refrigerated centrifuge with its lid open, showing a black swinging-bucket rotor with several white sample tubes inside. The control panel on the right side has a digital display and several buttons.
<p>Thermostatic water bath</p>	<p>To incubate the samples contained in 1.5/2/15/25 ml tubes.</p>	 A white thermostatic water bath with a digital display on the front panel showing the number '44.2'. The top of the bath is open, revealing a dark interior.
<p>TissueLyse II</p>	<p>This instrument is specifically used for the high-yield homogenization of human, animal, plant, yeast and bacterial tissues/cells. For the first access contact the RAF.</p>	 A white and blue TissueLyse II homogenizer. It has a white top with a clear lid and a blue base with two blue handles on the sides.