

Bacteria room facility

Overview

The bacteria room provides all the instruments needed for the culture, genetic engineering, selection and expansion of bacteria.

Equipment

- GELAIRE TC48 hood
- BIOAIR AURA MINI hood
- JENWAY 6100 spectrophotometer
- EPPENDORF BIOPHOTOMETER PLUS spectrophotometer
- NEW BRUNSWICK SCIENTIFIC C24 (5 positions available) thermoshaker
- EXCELLA E25 (9 positions available) thermoshaker
- INNOVA 44 (12 positions available) thermoshaker
- MPW-55 MICROCENTRIFUGE ELETTROFOR centrifuge
- 37°C room (room 69) GEOTEC 06-128
 - ORBI-SHAKER BENCHMARK (5 positions available) shaker
 - IKA LABORTECHNIK KS 125 BASIC (5 positions available) shaker
 - 711 VETROTECNICA shaker
 - EMSC 100 Euroclone Thermomixer T-Shaker
 - Mod. CLMX F.lli Galli rotating shaker
- 28°C room (room 68) GEOTEC 06-129
 - IKA LABORTECHNIK KS 501 Digital Orbital shaker N°1
 - IKA LABORTECHNIK KS 501 Digital Orbital shaker N°2

User manuals are available at the following links [\[see “User support material”\]](#)

Location

The bacteria culture room is located on the 5th floor, north side, GEOTEC 06 room 139–138–128-129.

Opening hours

Monday to Sunday: H24

Please note that, according to the Safety Guidelines of University of Padua:

“Do NOT work alone outside of working hours, particularly in cold rooms, or in rooms with X-ray sources and in cases of complex and dangerous operations. It is always important to check if specific procedures require special attention (especially for the cold room).

The presence of undergraduate students is conditioned on the presence of at least one structured staff unit.”

Service Coordinator

Prof. Raffaele Lopreiato

Staff

Dr. Valeria Bertin (bacteriaroom.biomed@unipd.it; 049-8276060)

Dr. Ivan Marchionni (bacteriaroom.biomed@unipd.it)

The Facility's staff are available Monday to Friday during normal working hours (09:00-16:00).

Guidelines

Users are expected to perform experiments independently and must be adequately trained to ensure proper use of the instruments.

Use of the instrument and training

Prior to the first use of the instruments, please contact Dr. Valeria Bertin or Dr. Ivan Marchionni for the mandatory training.

Booking procedures

All equipment must be reserved before every work session.

Reservations are made through the dedicated page on the DSB Facilities & Services website by selecting the “book now” icon associated with the required instrument.

If your plans change, reservations may be cancelled up to 24 hours before the start of the reserved time slot.

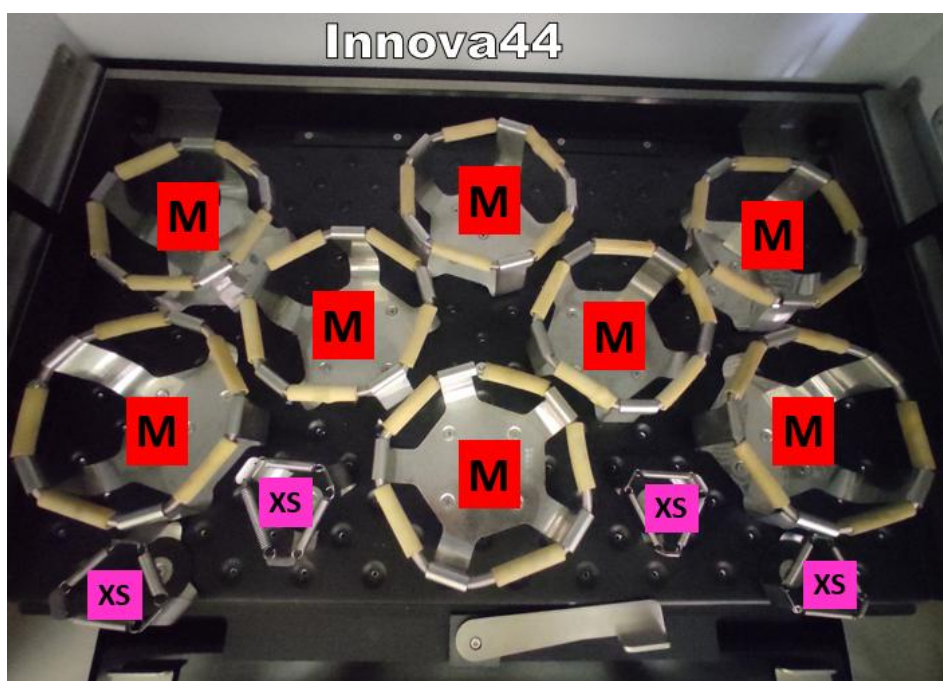
When making your reservation, indicate the **name of the user**, the **group leader**, and **lab phone number**.

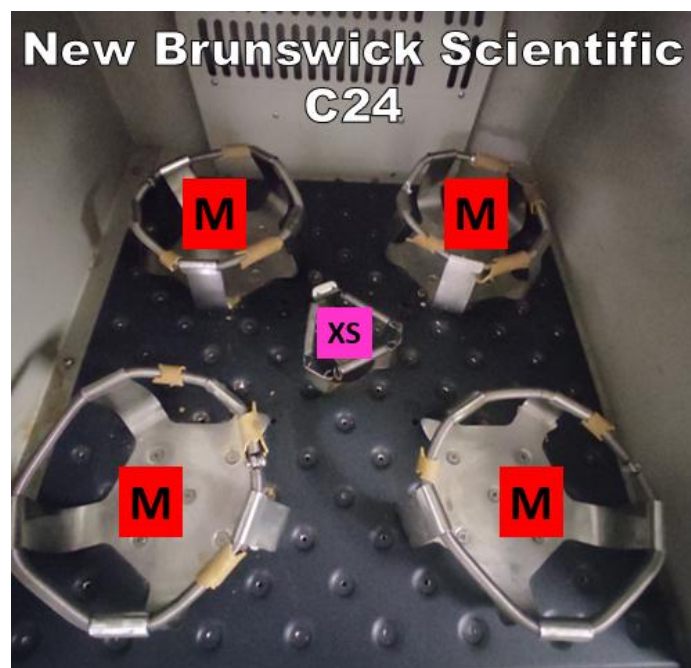
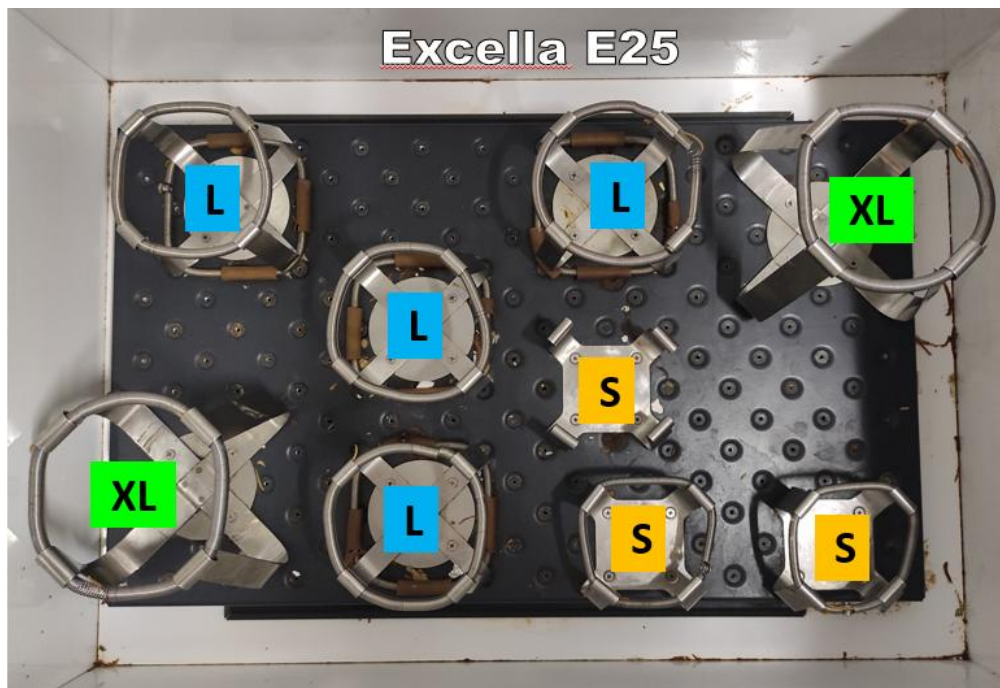
In the booking webpage you can find hoods and a separated section for shakers. Please note that the shaker New Brunswick Scientific C24 can be used only for temperature $\geq 30^{\circ}\text{C}$. Shakers Orbi-shaker Benchmark, Ika Labortechnik KS 125 BASIC, EMSC 100 Euroclone Thermomixer T-Shaker and Mod. CLMX F.lli Galli rotating shaker are located in the room at 37°C (room 69/GEOTEC 06-128). Shakers IKA LABORTECHNIK KS 501 Digital Orbital shaker N°1 and N°2 are located in the room at 28°C (room 68/GEOTEC 06-129).

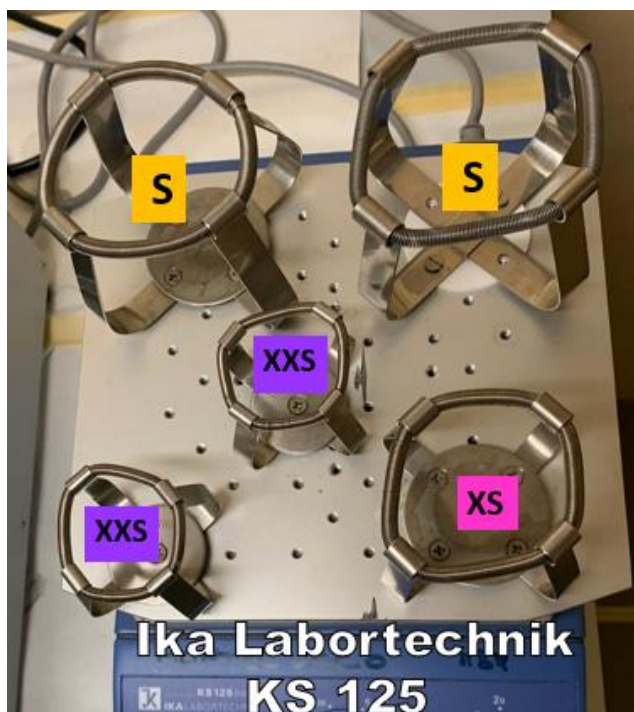
For shakers Excella E25, Innova 44, New Brunswick Scientific C24, Orbi-shaker Benchmark and Ika Labortechnik KS 125 BASIC bottle positions are identified with a code and need to be BOOKED INDIVIDUALLY. The letter of the code indicates the size of the position (XS/S/M/L/XL). You can find the picture of the positions of the shakers in the pdf document on the webpage and attached in the Bacteria Room. Please use the code of the booked positions.

As different cultures could need different temperatures of incubation, in case of more reservations at the same time THE TEMPERATURE AND RPM OF THE SHAKER ARE DEFINED BY THE FIRST USER BOOKED, that will specify the protocol in use in the description field. **Each bottle has to be labeled with NAME, LAB, TELEPHONE NUMBER of the owner.**

The same user can't book multiple shakers at the same time, to allow everyone to use them.







Rules

Before your session

- Wear a lab coat and clean gloves.
- Equipment must be checked in all their parts: everything must be clean and without any obvious damage. If this is not the case, please immediately contact the staff.
- CHECK IF YOU ARE THE FIRST USER OF THE DAY AND, IN THIS CASE, TURN ON THE UV LAMP FOR AT LEAST 20 MINUTES. REMEMBER TO TURN OFF THE UV LAMP BEFORE USING THE HOOD!
- MANDATORY HOOD OPENING PROCEDURE: switch on the hood and the flux; ONLY once the flux is fully operational, the frontal lid can be removed.
- Spectrophotometer must be switched on 10 minutes before use.
- Report to the staff the presence of incorrect behavior or waste not properly disposed of.

During your session:

- Good lab practices must be followed. Perform procedures in a way that minimizes aerosols (opening tubes slowly, pouring liquids without splashing, etc.).

After your session:

- Clean all surfaces first with water and then with 70% ethanol. Please do not use bleach on any work surface.
- Properly discard solid biological waste into a biological bin of your lab. It can be left inside the room, LABELED WITH A NAME AND OPENING DATE and CLOSE OUT OF YOUR SESSION. Don't leave open bins for long periods. The collection and conferral to the office of competence remains the RESPONSIBILITY OF THE PRODUCER.
- All liquid biological waste must be bleached (1:10) and DISCARDED IN YOUR OWN LAB.
- DO NOT leave anything in the room (out of your assigned space in the shelf) and inside the hoods and thermoshakers.
- Switch off the spectrophotometer after each use, to prevent deterioration of the light source.
- Switch off thermoshakers and check if the surfaces and positions are clean. If not, it must be cleaned first with water and then with 70% ethanol or denatured alcohol.
- Switch off the centrifuge after each use.
- MANDATORY HOOD CLOSING PROCEDURE: the frontal lid must be positioned back in place BEFORE switching off the flux; ONLY once the hood is properly closed, switch off the flux. Switch off the light and THEN the hood.
- Contaminated gloves must be discarded.

The agar plates have to be labeled with a NAME and can be incubated inside the indicated drawers, in the room at 37°C.

It is forbidden to put private equipment inside the 28°C and 37°C rooms of the facility. If you have special necessities, please contact the facility technical staff.

Costs

Updated fees are available on the DSB Facility website.

Users will receive an annual report that summarizes your reservations, based on the online booking calendar.

User support material

- Eppendorf_biophotometer plus manual.pdf
- Jenway 6100 spectro manual _ Manual
- MPW-55 Centrifuge_user_manual
- New-Brunswick_Shakers_Operating-manual_Excelsa-E25_E25R
- New-Brunswick_Shakers_Operating-manual_Innova-44_44R
- C24_Classic_Incubator_Shaker_Manual