



FORESTERRA

Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration



INFORMATION ABOUT THE PERSON FILLING THE FORM	
Name and family name	<i>Jožica Gričar</i>
Research organization	<i>Slovenian Forestry Institute</i>
Position in the organization	
Country	<i>Slovenia</i>
E-mail	<i>jozica.gricar@gozdis.si</i>
FACILITY ¹	
Name of the facility	<i>ANLAB – Laboratorij za lesno anatomijo GIS – Wood anatomy lab SFI</i> <i>www.gozdis.si</i>
Location of the facility	<i>Slovenia</i> <i>Večna pot 2, 1000 Ljubljana</i>
Start date	<i>2006; renovated in 2012</i>
Type of facility	<i>Light microscope Leica DM 4000 B/M</i> <i>Sliding microtome GSL 1</i> <i>Rotary microtome Leica RM2245</i> <i>Tissue processor Leica TP 1020</i> <i>Paraffin dispenser Leica EG 1120</i> <i>Analysis system: WinCELL Software</i> <i>Sampling tools: Trepbor, igle za pinning</i> <i>Equipment for local heating and cooling of trees</i>
Keywords	<i>Sample preparation, embedding, cutting</i>
Scientific characteristics	<i>Biodiversity and functional diversity studies in forestry</i> <i>Interest for users: Specialized for anatomy of wood and bark research</i> <i>Specialized in identification and taxonomy of tree species; anatomy of tree tissues (wood, cambium, bark) in different planes</i> <i>Research projects in the frame of which the facility is used: Programme group Forest biology, ecology and technology</i>

¹ Note: This information could be published in the webpage of FORESTERRA.

Technical characteristics	<p>Rotary microtome Leica RM2245 is a semi-motorized rotary microtome designed for routine and research applications in wood/ bark anatomy. Manual sectioning is enhanced by a high-precision motorized specimen feed, which results in efficient operation with maximum section quality and reproducibility.</p> <p>Tissue processor Leica TP 1020 Diameter of the cap: 820 mm, diameter of reagent containers: 610 mm, height of the chamber: 595-780 mm, weight: 60 kg) with 10 reagent class containers the size of 1.8 l. It has two paraffin baths. Up to 100 standard cassettes can be processed. The processor is fully automated and is supported by nine different programs. Gentle specimen processing and a high level of specimen safety at all stages of the processing run are supported by the robust design based on precision mechanics in conjunction with a modern user interface.</p> <p>Paraffin dispenser Leica EG 1120 offers a built-in solid paraffin separator, to prevent the dispenser nozzle from becoming clogged by solid or semi-solid paraffin. Paraffin is dispensed through heated dispenser nozzles and the flow rate can be easily regulated as required to ensure trouble-free paraffin dispensing in every type of working situation. The digital display supports precise temperature regulation unequalled by other instruments available on the market.</p> <p>Light microscope Leica DM 4000 B/M can be used with all common incident light contrast methods. It operates with a mechanical Z-drive (optional motorized Z-drive) and mechanical stage.</p> <p>WinCell is an image analysis system specifically designed for measurement of cells. It can do morphology (length, area, volume...), topology, architecture and colour analyses.</p> <p>Trephor is a tool specifically designed for sampling of micro-cores for studies of intra-annual dynamics of xylo- and phloemogenesis. Two Trephor tools are available with different diameters: 1.8 mm and 2.4 mm.</p> <p>Needles for pinning are used for studies of intra-annual dynamics of xylogenesis.</p> <p>Equipment for local heating consists of a self-regulating heating cable (FSM-17, 17W/+5°C, 11W/25°C, 230V) with length of 15 meters and temperature regulator with a sensor ITR 0-60°C.</p> <p>Equipment for cooling heating consists of a cooling system utilising coolant flow (dimensions 900 x 400 x 400 mm). It is composed of a cooling unit (cooling strength of the system is 720 W at -10°C, electric power 800 W-230V), a gas coolant R 404 and a circulation pump.</p>
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SCIENTISTS AND/OR TECHNICIANS IN CHARGE OF THE FACILITY

Principal investigator	<i>Dr. Jožica Gričar (jozica.gricar@gozdis.si)</i>
One line for each additional person	<i>Špela Jagodic (spela.jagodic@gozdis.si)</i>

ADMINISTRATIVE INFORMATION

Availability for participating in mutual measurements	<p>Yes</p> <p><i>Dr. Jozica Gricar (Jozica.gricar@gozdis.si)</i></p> <p><i>Conditions or Policy of use: Individual agreement</i></p>
Availability for accessing the data collected	<i>IPR conditions under development</i>
Institution that manages the facility	<p><i>Gozdarski inštitut Slovenije – Slovenian Forestry Institute</i></p> <p><i>www.gozdis.si</i></p>



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Structure or institution which manages the data	<i>Gozdarski inštitut Slovenije – Slovenian Forestry Institute</i>
	<i>www.gozdis.si</i>
Is the facility participating in a national or international Network?	<i>Name (Original language and English translation)</i>
	<i>URL address</i>
Is the facility open for transnational collaboration?	<i>Yes – for research purposes.</i>