

Finland-Turku: Microscopes

OJ S 126/2023 04/07/2023

Contract notice**Supplies****Legal Basis:**

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: University of Turku

National registration number: 0245896-3

Postal address: Yliopistonmäki

Town: Turku

NUTS code: FI1C1 Varsinais-Suomi

Postal code: 20500

Country: Finland

E-mail: procurement@utu.fi**Internet address(es):**Main address: <http://www.utu.fi>**I.3. Communication**

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://tarjouspalvelu.fi/utu?id=464908&tpk=92a1f2d3-c483-4b66-9fef-5a130ec0cd23>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://tarjouspalvelu.fi/utu?id=464908&tpk=92a1f2d3-c483-4b66-9fef-5a130ec0cd23>**I.4. Type of the contracting authority**

Body governed by public law

I.5. Main activity

Education

Section II: Object

II.1. Scope of the procurement**II.1.1. Title**

Wide-field light microscope for combined high-speed, high-throughput, and high-resolution analysis of molecular interactions

Reference number: TY/444/02.04.00/2023

II.1.2. Main CPV code

38510000 Microscopes

II.1.3. Type of contract

Supplies

II.1.4. Short description

The Turku Bioscience Centre at the University of Turku intends to purchase a conventional and broadly versatile research grade fully motorized wide-field light microscope for combined high-speed, high-throughput, and high-resolution analysis of molecular interactions in a large variety of biological specimens, ranging from live single cells to fixed thick tissue sections, and more.

II.1.5. Estimated total value

Value excluding VAT: 208 500,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.2. Additional CPV code(s)

38000000 Laboratory, optical and precision equipments (excl. glasses)

II.2.3. Place of performance

NUTS code: FI1C1 Varsinais-Suomi

II.2.4. Description of the procurement

The system to be purchased must include:

- 1) A versatile, future-proof, fully motorized, research grade, inverted light microscope body, equipped for both fluorescence and trans-illumination imaging, with a PC workstation and image acquisition and image post-processing software suitable for automatic, multi-colour image acquisition of 2D and 3D single position, automatic multi-position, and tiled image data sets in fluorescence mode with a high-sensitivity monochromatic CMOS camera, and in colorimetric mode with a high-sensitivity colour CCD or CMOS camera. The microscope system must include a black cage incubator with temperature and CO₂ control to enable live cell imaging under physiological conditions (37C and 5% CO₂).
- 2) A validated and demonstratable strategy for live background subtraction that enable on-the-fly adjustments of image acquisition settings in thicker samples (e.g. 50-100 µm thick tissue sections, spheroids and organoids, zebra fish embryos, and similar) that normally suffers from an overwhelming out-of-focus signal such that the in-focus signal is indistinguishable in live imaging mode. For full flexibility, the system should furthermore include validated strategies for further post-processing image enhancement by built in image de-convolution capabilities with a specific aim at tackling improvement for deep imaging in thick samples.
- 3) A range of research grade microscope objectives suitable for imaging a broad range of samples and sample configurations including for specialised imaging of coverslip-free mounted samples on standard 1mm thick glass slides for downstream proteomic analysis.

II.2.5. Award criteria

Price is not the only award criterion and all criteria are stated only in the procurement documents

II.2.6. Estimated value

Value excluding VAT: 208 500,00 EUR

II.2.7. Duration of the contract, framework agreement or dynamic purchasing system

Duration in months: 24

This contract is subject to renewal: no

II.2.10. Information about variants

Variants will be accepted: no

II.2.11. Information about options

Options: yes

Description of options:

The tenderer is requested to include a separate description, including pricing, of at least the following options:

- 1) Microscope objectives that have been optimized for compatibility with imaging tissue samples cleared with BABB.
- 2) Software licence for remote post-processing with a description of AI based implementations for image data segmentation.

3) Options for extending the functionality of the specified system

4) Options for extended service contract beyond the expiration of the warranty

Options are not used in the comparison. The use of options is at the sole discretion of the buyer.

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds: yes

Identification of the project: Recovery and Resilience Facility (RRF)

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Open procedure

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.2. Time limit for receipt of tenders or requests to participate

Date: 17/08/2023 Local time: 13:00

IV.2.3. Estimated date of dispatch of invitations to tender or to participate to selected candidates

IV.2.4. Languages in which tenders or requests to participate may be submitted

English

IV.2.6. Minimum time frame during which the tenderer must maintain the tender

Duration in months: 3 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 17/08/2023 Local time: 13:30

Place:

Turku

Section VI: Complementary information

VI.1. Information about recurrence

This is a recurrent procurement: no

VI.3. Additional information

VI.4. Procedures for review

VI.4.1. Review body

Official name: Markkinaoikeus

Postal address: Radanrakentajantie 5

Town: Helsinki

Postal code: 00520

Country: Finland

E-mail: markkinaoikeus@oikeus.fi

Telephone: +358 295643300

Internet address: <http://www.oikeus.fi/markkinaoikeus>

VI.5. Date of dispatch of this notice

29/06/2023