

Finland-Tampere: Microscopes

OJ S 209/2018 30/10/2018

Contract notice

Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: TTY Foundation sr

National registration number: 2286106-3

Postal address: Korkeakoulunkatu 10

Town: Tampere

NUTS code: FI197 Pirkanmaa

Postal code: 33720

Country: Finland

Contact person: Jarno Tanskanen

E-mail: ty-hankinnat@tut.fi

Internet address(es):

Main address: <http://www.tut.fi>

I.3. Communication

The procurement documents are available for unrestricted and full direct access, free of charge, at: <https://tarjouspalvelu.fi/hanki>

Additional information can be obtained from the abovementioned address

Tenders or requests to participate must be submitted electronically via: <https://tarjouspalvelu.fi/hanki?id=189462&tpk=ed09a11b-3834-42f6-b33d-8a5991d45c07>

I.4. Type of the contracting authority

Other type: Foundation University

I.5. Main activity

Education

Section II: Object

II.1. Scope of the procurement

II.1.1. Title

Microscope System with Optogenetics Capabilities

Reference number: TTY/398/251/2018

II.1.2. Main CPV code

38510000 Microscopes

II.1.3. Type of contract

Supplies

II.1.4. Short description

TTY Foundation sr (Tampere University of Technology, TUT) is inviting tenders for a scientific cell and biomaterial microscope imaging system with optogenetics and other lighting capabilities.

II.1.5. Estimated total value

Value excluding VAT: 246 660,00 EUR

II.1.6. Information about lots

This contract is divided into lots: no

II.2. Description

II.2.2. Additional CPV code(s)

38519000 Miscellaneous compounds for microscopes

II.2.3. Place of performance

NUTS code: FI197 Pirkanmaa

II.2.4. Description of the procurement

The procurement object is a microscope system with optogenetics and other light stimulation capabilities consisting of the following subsystems:

- 1) microscopes(s) subsystem;
- 2) microscope camera(s) subsystem;
- 3) light sources subsystem;
- 4) sample stage(s) subsystem;
- 5) mini incubator subsystem and
- 6) computer with software and display. In the following, an integrated system consisting of all the subsystems 1-6 is called the "full system". The usage purpose of the microscopy system to be purchased is to image cells, cell cultures, tissues and cell preparations, and cell-biomaterial constructs in vitro, and biomaterials and electrode materials (such as metals, oxides, and glass-like surfaces) with and without cell cultures, so that both the material surfaces and the cells can be imaged, using normal transmitted and reflected light microscopy, fluorescent microscopy, photobleaching, and optogenetics methods, as flexibly and with as good image quality as possible. The cells, cell cultures, and tissue preparations include stem cells, neuronal cells, cardiomyocytes, retina, and various epithelia. Experiments will also be conducted with high-intensity light activated materials that will be treated with the purchased lighting system during imaging. Both optogenetics and light activated material or bleaching experiments are planned to be performed simultaneously while the samples are being imaged. Also other experiments will be conducted using the different lighting modalities simultaneously and concurrently with imaging. Imaging experiments will include still, time-lapse, and video imaging. Still images will be acquired also from extremely lowlight samples/fluorescence. Video imaging will be used, for example, for detailed contraction analysis of cardiomyocytes. Experiments may also be conducted with the light system (especially optogenetics light stimulation) controlled by a third-party logic or devices. Experiments will be automated, so that several locations of the samples can be easily imaged and reimaged with different lighting and light stimulation modalities in time-lapsed manner. Samples to be imaged include transparent and non-transparent samples, and experiments will be conducted using both inverted and upright light paths. Some samples will be contained in atmospheric or sterile chambers, and will therefore be imaged from a distance dictated by the chamber using water immersion and in-air imaging through cover glass via upright light path. High-quality high-resolution images will be acquired via inverted light path using water and oil immersion through a cover glass. Inverted microscopy with imaging will also be performed through 1 mm glass plates. Normal in-

air microscopy will be used for normal imaging and fast screening of samples using both inverted and upright light paths. Imaging targets may reside on a variety of dish formats or on /in a variety of materials, including but not limited to:

- microscope slides and cover glasses, multi-well cell culture plates,
- cell culture dishes and flasks,
- various biomaterial constructs,
- experimental engineered surfaces,
- hydrogels and
- transparent and non-transparent microelectrode arrays (MEAs) residing in their headstages. Concurrently with imaging, electrophysiological measurements of the samples being imaged will be conducted using the different MEA measurement and stimulation platforms already in use in the buyer's laboratories; microscope imaging (still, time-lapse and video) and light stimulations (e.g., optogenetics, and high-intensity photobleaching and materials stimulation) will be synchronized with the electrical MEA measurements and electrical stimulation of the cells, and vice versa, and possibly with third party hardware; for example, the optogenetics light stimulation may need to be controlled by third party software /hardware. The imaging and MEA measurements are planned to take place in a mini incubator with controlled temperature and atmosphere.

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

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

Start: 01/01/2019

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: no

II.2.12. Information about electronic catalogues

Tenders must be presented in the form of electronic catalogues or include an electronic catalogue

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

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: 04/12/2018 Local time: 12:00

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: 6 (from the date stated for receipt of tender)

IV.2.7. Conditions for opening of tenders

Date: 04/12/2018 Local time: 12:30

Information about authorised persons and opening procedure: The opening of the tenders is not public.

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

Fax: +358 295643314

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

VI.5. Date of dispatch of this notice

29/10/2018