

Finland – Laboratory, optical and precision equipments (excl. glasses) – 1 multiphoton microscope system**OJ S 253/2024 31/12/2024****Voluntary ex-ante transparency notice****Supplies**

1. Buyer**1.1. Buyer**

Official name: Helsingin yliopisto

Email: hankinnat@helsinki.fi**1.1. Buyer**

Official name: Wihuri Research Institute

Email: info@wri.fi

2. Procedure**2.1. Procedure**

Title: 1 multiphoton microscope system

Description: Leica Stellaris 8 DIVE confocal system with Coherent Chameleon Discovery NX Multi-Photon laser and FALCON FLIM. Procurement of the device funded by Wihuri Research Institute (55%), University of Helsinki: HiLIFE and Faculty of Medicine (45%). It is possible to publish a procurement notice in the Hilma and TED web pages of a direct purchase which is valued 221.000€ (VAT 0%) or more. If nobody challenges the direct purchase decision in 14 days then the direct purchase will have legal protection over possible future challenges. Also a contract award notice should be made of the direct purchase. A procurement notice is published of the direct purchase in the Hilma –portal. Justification for the direct purchase. The justification must be based on one of the preconditions mentioned in the procurement act (1397/2016)(40§, 41§, 110§, 119§). 40§ 2) only a certain supplier can implement the procurement for a technical reason, or for a reason related to protecting an exclusive right; it shall be a further condition that there are no reasonable alternatives or substitute solutions, and that the absence of competition is not due to an artificial narrowing of the terms and conditions of the procurement. We have evaluated the currently available multiphoton microscope platforms suitable for intravital microscopy and identified Leica Stellaris 8 DIVE with FALCON fluorescence lifetime imaging microscopy (FLIM) as the only available system fulfilling our current needs. For our user base with a range of research areas and using a wide variety of methods and models, we require single-photon confocal and multiphoton imaging combined onto a microscope body compatible with a range of tissue adapters for anesthetized/awake live animals, availability of state-of-the-art objective lenses, a combination of fast resonant scanning with high-quality galvanometric scanning, sensitive silicon semiconductor-based detection with photon counting, and laser beam modulation optimizable for deep imaging or higher resolution. Among the systems that meet the above requirements, the Leica Stellaris 8 DIVE is unique in meeting the following requirements: 1. The possibility of fully spectrally adjustable emission filtering for non-descanned detection of multiphoton excitation with the 4Tune system. This allows maximally flexible use of different fluorophores, which is often crucial for live animal use and deep-tissue imaging, and also serves the ongoing development of novel fluorescence tools within the University of Helsinki. The 4Tune system is covered by

the following patents: a. U.S.A. patent US10775599B2; granted and in force. b. German utility model DE202016008334U1; registered and in force. c. European patent EP3308210B1; granted and in force in Germany, France and UK. 2. Multiple multiphoton fluorescence lifetime tools for imaging and analysis, without additional hardware and fully integrated into the microscope control software, namely TauSense and FALCON. The TauSense tools enable the usage of lifetime to get additional information from fluorescence imaging, which allows the characterization and separation of overlapping signals, such as autofluorescence or spectrally similar fluorophores, adding to the flexibility for fluorophore use. Especially in combination with spectrally adjustable emission filtering with the 4Tune system, this maximizes the reliable information gained from valuable samples such as live animals. In addition, the FALCON module contains a full fluorescence lifetime imaging toolkit suitable for acquiring and analyzing fluorescence lifetime data for applications such as fluorescence lifetime-based cell state or environmental sensing and molecular interaction measurements. The TauSense and FALCON functionalities are covered by the following patents: a. Patents US10073034B2, CN103105383B, JP6220510B2; in force in U.S.A, China and Japan, respectively. b. European Patent EP2592413B1; in force in Germany, France, UK, Italy, the Netherlands and Switzerland. No other manufacturer is capable of providing a combined single photon /multiphoton microscope system with spectrally flexible detection and integration of fluorescence lifetime imaging information which fulfill the requirements of our research.

Procedure identifier: 29ff9837-95ea-4b15-a9fb-c7a3d239f4d6

Internal identifier: 540737

Type of procedure: Negotiated without prior call for competition

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000

Laboratory, optical and precision equipments (excl. glasses)

2.1.2. Place of performance

Country subdivision (NUTS): Helsinki-Uusimaa (FI1B1)

Country: Finland

2.1.4. General information

Legal basis:

Directive 2014/24/EU

5. Lot

5.1. Lot: LOT-0000

Title: 1 multiphoton microscope system

Description: Leica Stellaris 8 DIVE confocal system with Coherent Chameleon Discovery NX Multi-Photon laser and FALCON FLIM. Procurement of the device funded by Wihuri Research Institute (55%), University of Helsinki: HiLIFE and Faculty of Medicine (45%). It is possible to publish a procurement notice in the Hilma and TED web pages of a direct purchase which is valued 221.000€ (VAT 0%) or more. If nobody challenges the direct purchase decision in 14 days then the direct purchase will have legal protection over possible future challenges. Also a contract award notice should be made of the direct purchase. A procurement notice is published of the direct purchase in the Hilma –portal. Justification for the direct purchase. The justification must be based on one of the preconditions mentioned in the procurement act (1397/2016)(40§, 41§, 110§, 119§). 40§ 2) only a certain supplier can implement the procurement

for a technical reason, or for a reason related to protecting an exclusive right; it shall be a further condition that there are no reasonable alternatives or substitute solutions, and that the absence of competition is not due to an artificial narrowing of the terms and conditions of the procurement. We have evaluated the currently available multiphoton microscope platforms suitable for intravital microscopy and identified Leica Stellaris 8 DIVE with FALCON fluorescence lifetime imaging microscopy (FLIM) as the only available system fulfilling our current needs. For our user base with a range of research areas and using a wide variety of methods and models, we require single-photon confocal and multiphoton imaging combined onto a microscope body compatible with a range of tissue adapters for anesthetized/awake live animals, availability of state-of-the-art objective lenses, a combination of fast resonant scanning with high-quality galvanometric scanning, sensitive silicon semiconductor-based detection with photon counting, and laser beam modulation optimizable for deep imaging or higher resolution. Among the systems that meet the above requirements, the Leica Stellaris 8 DIVE is unique in meeting the following requirements: 1. The possibility of fully spectrally adjustable emission filtering for non-descanned detection of multiphoton excitation with the 4Tune system. This allows maximally flexible use of different fluorophores, which is often crucial for live animal use and deep-tissue imaging, and also serves the ongoing development of novel fluorescence tools within the University of Helsinki. The 4Tune system is covered by the following patents: a. U.S.A. patent US10775599B2; granted and in force. b. German utility model DE202016008334U1; registered and in force. c. European patent EP3308210B1; granted and in force in Germany, France and UK. 2. Multiple multiphoton fluorescence lifetime tools for imaging and analysis, without additional hardware and fully integrated into the microscope control software, namely TauSense and FALCON. The TauSense tools enable the usage of lifetime to get additional information from fluorescence imaging, which allows the characterization and separation of overlapping signals, such as autofluorescence or spectrally similar fluorophores, adding to the flexibility for fluorophore use. Especially in combination with spectrally adjustable emission filtering with the 4Tune system, this maximizes the reliable information gained from valuable samples such as live animals. In addition, the FALCON module contains a full fluorescence lifetime imaging toolkit suitable for acquiring and analyzing fluorescence lifetime data for applications such as fluorescence lifetime-based cell state or environmental sensing and molecular interaction measurements. The TauSense and FALCON functionalities are covered by the following patents: a. Patents US10073034B2, CN103105383B, JP6220510B2; in force in U.S.A, China and Japan, respectively. b. European Patent EP2592413B1; in force in Germany, France, UK, Italy, the Netherlands and Switzerland. No other manufacturer is capable of providing a combined single photon /multiphoton microscope system with spectrally flexible detection and integration of fluorescence lifetime imaging information which fulfill the requirements of our research. Internal identifier: 540737

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38000000

Laboratory, optical and precision equipments (excl. glasses)

5.1.2. Place of performance

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

5.1.6. General information

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.10. Award criteria

Criterion:

Type: Price

Description: Price

Fixed value (total): 100

5.1.16. Further information, mediation and review

Review organisation: Markkinaoikeus

Organisation whose budget is used to pay for the contract: Helsingin yliopisto, Wihuri Research Institute

Organisation executing the payment: Helsingin yliopisto, Wihuri Research Institute

TED eSender: Hansel Oy (Hilma)

6. Results

Value of all contracts awarded in this notice: 863 793,00 EUR

Direct award:

Justification for direct award:

The contract can be provided only by a particular economic operator because of an absence of competition for technical reasons

Other justification: It is possible to publish a procurement notice in the Hilma and TED web pages of a direct purchase which is valued 221.000€ (VAT 0%) or more. If nobody challenges the direct purchase decision in 14 days then the direct purchase will have legal protection over possible future challenges. Also a contract award notice should be made of the direct purchase. A procurement notice is published of the direct purchase in the Hilma –portal.

Justification for the direct purchase. The justification must be based on one of the preconditions mentioned in the procurement act (1397/2016)(40§, 41§, 110§, 119§). 40§ 2) only a certain supplier can implement the procurement for a technical reason, or for a reason related to protecting an exclusive right; it shall be a further condition that there are no reasonable alternatives or substitute solutions, and that the absence of competition is not due to an artificial narrowing of the terms and conditions of the procurement. We have evaluated the currently available multiphoton microscope platforms suitable for intravital microscopy and identified Leica Stellaris 8 DIVE with FALCON fluorescence lifetime imaging microscopy (FLIM) as the only available system fulfilling our current needs. For our user base with a range of research areas and using a wide variety of methods and models, we require single-photon confocal and multiphoton imaging combined onto a microscope body compatible with a range of tissue adapters for anesthetized/awake live animals, availability of state-of-the-art objective lenses, a combination of fast resonant scanning with high-quality galvanometric scanning, sensitive silicon semiconductor-based detection with photon counting, and laser beam modulation optimizable for deep imaging or higher resolution. Among the systems that meet the above requirements, the Leica Stellaris 8 DIVE is unique in meeting the following requirements: 1. The possibility of fully spectrally adjustable emission filtering for non-descanned detection of multiphoton excitation with the 4Tune system. This allows maximally flexible use of different fluorophores, which is often crucial for live animal use and deep-tissue imaging, and also serves the ongoing development of novel fluorescence tools within the University of Helsinki. The 4Tune system is covered by the following patents: a. U.S.A. patent US10775599B2; granted and in force. b. German utility model DE202016008334U1; registered and in force. c. European patent EP3308210B1; granted and in force in Germany, France and UK. 2. Multiple multiphoton fluorescence lifetime tools for imaging and analysis,

without additional hardware and fully integrated into the microscope control software, namely TauSense and FALCON. The TauSense tools enable the usage of lifetime to get additional information from fluorescence imaging, which allows the characterization and separation of overlapping signals, such as autofluorescence or spectrally similar fluorophores, adding to the flexibility for fluorophore use. Especially in combination with spectrally adjustable emission filtering with the 4Tune system, this maximizes the reliable information gained from valuable samples such as live animals. In addition, the FALCON module contains a full fluorescence lifetime imaging toolkit suitable for acquiring and analyzing fluorescence lifetime data for applications such as fluorescence lifetime-based cell state or environmental sensing and molecular interaction measurements. The TauSense and FALCON functionalities are covered by the following patents: a. Patents US10073034B2, CN103105383B, JP6220510B2; in force in U.S.A, China and Japan, respectively. b. European Patent EP2592413B1; in force in Germany, France, UK, Italy, the Netherlands and Switzerland. No other manufacturer is capable of providing a combined single photon/multiphoton microscope system with spectrally flexible detection and integration of fluorescence lifetime imaging information which fulfill the requirements of our research.

6.1. Result lot Identifier: LOT-0000

6.1.2. Information about winners

Winner:

Official name: Immuno Diagnostic Oy

Tender:

Tender identifier: Leica Stellaris 8 DIVE confocal system with Coherent Chameleon Discovery NX Multi-Photon laser and FALCON FLIM

Identifier of lot or group of lots: LOT-0000

Value of the tender: 863 793,00 EUR

The tender was ranked: no

Contract information:

Identifier of the contract: 1 multiphoton microscope system

8. Organisations

8.1. ORG-0001

Official name: Helsingin yliopisto

Registration number: 0313471-7

Postal address: Fabianinkatu 33

Town: Helsinki

Postcode: 00100

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Contact point: Hankinnat

Email: hankinnat@helsinki.fi

Telephone: +358 2941911

Internet address: <https://www.helsinki.fi/fi>

Roles of this organisation:

Buyer

Group leader

Organisation whose budget is used to pay for the contract

Organisation executing the payment

8.1. ORG-0002

Official name: Markkinaoikeus

Registration number: 3006157-6

Postal address: Radanrakentajantie 5

Town: Helsinki

Postcode: 00520

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Email: markkinaoikeus@oikeus.fi

Telephone: +358 295643300

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

Roles of this organisation:

Review organisation

8.1. ORG-0003

Official name: Immuno Diagnostic Oy

Registration number: 0499964-0

Town: Hämeenlinna

Postcode: 13100

Country subdivision (NUTS): Kanta-Häme (F11C2)

Country: Finland

Email: info@immunodiagnostic.fi

Telephone: +358 3615370

Roles of this organisation:

Tenderer

Winner of these lots: LOT-0000

8.1. ORG-0004

Official name: Wihuri Research Institute

Registration number: 0123448-2

Town: Helsinki

Postcode: 00290

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Email: info@wri.fi

Telephone: +358 504460068

Roles of this organisation:

Buyer

Organisation whose budget is used to pay for the contract

Organisation executing the payment

8.1. ORG-0005

Official name: Hansel Oy (Hilma)

Registration number: FI09880841

Postal address: Mannerheiminaukio 1a

Town: Helsinki

Postcode: 00100

Country subdivision (NUTS): Helsinki-Uusimaa (F11B1)

Country: Finland

Contact point: eSender

Email: tekninen@hankintailmoitukset.fi

Telephone: 029 55 636 30

Internet address: <http://hankintailmoitukset.fi>

Roles of this organisation:

TED eSender

11. Notice information

11.1. Notice information

Notice identifier/version: 2b523b8e-fc77-4f5c-99d1-425d9cea9f70 - 01

Form type: Direct award preannouncement

Notice type: Voluntary ex-ante transparency notice

Notice subtype: 25

Notice dispatch date: 30/12/2024 11:42:51 (UTC)

Notice dispatch date (eSender): 30/12/2024 11:43:23 (UTC)

Languages in which this notice is officially available: English

11.2. Publication information

Notice publication number: 799638-2024

OJ S issue number: 253/2024

Publication date: 31/12/2024