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Planning

Single Cell Isolation Sorting and Dispensing system

University Of Edinburgh

F01: Prior information notice
Prior information only
Notice identifier: 2023/S 000-022408
Procurement identifier (OCID): ocds-h6vhtk-03ec44
Published 2 August 2023, 9:53am

Section I: Contracting authority

I.1) Name and addresses

University Of Edinburgh

Charles Stewart House, 9-16 Chambers Street

Edinburgh

EH1 1HT

Email

esilves2@ed.ac.uk

Telephone

+44 1316502508

Country

United Kingdom

NUTS code

UKM75 - Edinburgh, City of

Internet address(es)

Main address

https://www.ed.ac.uk

Buyer's address

https://www.publiccontractsscotland.gov.uk/search/Search_AuthProfile.aspx?ID=AA00107

I.2) Information about joint procurement

The contract is awarded by a central purchasing body

I.3) Communication

Additional information can be obtained from the above-mentioned address

I.4) Type of the contracting authority

Regional or local Agency/Office

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

Single Cell Isolation Sorting and Dispensing system

Reference number

NCA31052

II.1.2) Main CPV code

- 42997300 - Industrial robots

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University of Edinburgh is currently looking for market insight for a potential upcoming tender around robots having the capability to process single cells for mass spectrometry-based proteomics

The instrument has to be capable of isolating and lysing cells as well as automated protein digestion, peptide labelling with isotope tags and loading onto evotips. Instrument has to have the proven capability of reproducibly generating 100s of samples that can yield 1500 protein groups identified using a timsTOF SCP or similar mass spectrometer.

II.1.5) Estimated total value

Value excluding VAT: £290,000

II.1.6) Information about lots

This contract is divided into lots: No

II.2) Description

II.2.2) Additional CPV code(s)

- 42997300 - Industrial robots

II.2.3) Place of performance

NUTS codes

- UKM73 - East Lothian and Midlothian

II.2.4) Description of the procurement

The IGC is a large multidisciplinary cross-college institute situated within the College of Medicine and Veterinary Medicine at the University of Edinburgh. IGC includes three world renowned research centres that advance knowledge and deliver basic science concepts to clinical and commercial outcomes within one world leading laboratory complex. The institute, together with its partner Deaneries and the College of Medicine and Veterinary Medicine provide a fertile and dynamic environment for medical research.

Over the past few years, we have witnessed a revolution in cellular and developmental biology. The advent of robust and sensitive mass spectrometry approaches has enabled us to quantify protein expression from single-cells (sc) Unbiased sc Proteomics has the potential to give us unprecedented insight into how cellular heterogeneity and changes within underpin most biological processes.

We have recently installed a timsTOF SCP coupled to an Evosep HPLC and have obtained funding from the BBSRC to purchase a robotic workstation for isolating, processing and labelling proteins/peptides isolated from single cells. The proposed instrument will enhance the capabilities and throughput of the University of Edinburgh to investigate the proteome at single cell resolution.

· The instrument must be capable of isolating and lysing cells as well as automated protein digestion, peptide labelling with isotope tags and loading onto evotips.

· The system must be able to introduce isotopic labels to permit multiplexing.

· Instrument has to have the proven capability of reproducibly generating 100s of samples that can yield 1500 protein groups identified using a timsTOF SCP or similar mass spectrometer.

The instrument will be unique to both the University of Edinburgh and to the surrounding areas. Our funders have asked that the instrument be available for the wider research community to access. Because of this we anticipate the system will be heavily used to mitigate against research being impacted by instrument downtime. We would require a system engineer to be available for onsite support and access to technical specialist support as required.

II.3) Estimated date of publication of contract notice

30 October 2023

Section IV. Procedure

IV.1) Description

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

The procurement is covered by the Government Procurement Agreement: Yes

Section VI. Complementary information

VI.3) Additional information

NOTE: To register your interest in this notice and obtain any additional information please visit the Public Contracts Scotland Web Site at https://www.publiccontractsscotland.gov.uk/Search/Search_Switch.aspx?ID=739929.

(SC Ref:739929)