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Award

## **GeoMx Digital Spatial Profiler and nCounter**

Cardiff University

F15: Voluntary ex ante transparency notice

Notice identifier: 2021/S 000-022907

Procurement identifier (OCID): ocds-h6vhtk-02e0e9

Published 15 September 2021, 11:34am

### **Section I: Contracting authority/entity**

#### **I.1) Name and addresses**

Cardiff University

Procurement Services, McKenzie House, 30-36 Newport Road

Cardiff

CF24 0DE

#### **Email**

[procurement@cardiff.ac.uk](mailto:procurement@cardiff.ac.uk)

#### **Telephone**

+44 2920879648

#### **Country**

United Kingdom

#### **NUTS code**

UKL - Wales

**Internet address(es)**

Main address

<http://www.cardiff.ac.uk/business/why-work-with-us/for-suppliers>

Buyer's address

[https://www.sell2wales.gov.wales/search/Search\\_AuthProfile.aspx?ID=AA0258](https://www.sell2wales.gov.wales/search/Search_AuthProfile.aspx?ID=AA0258)

**I.4) Type of the contracting authority**

Body governed by public law

**I.5) Main activity**

Education

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**Section II: Object**

**II.1) Scope of the procurement**

**II.1.1) Title**

GeoMx Digital Spatial Profiler and nCounter

Reference number

CU.732.TH

**II.1.2) Main CPV code**

- 38432000 - Analysis apparatus

**II.1.3) Type of contract**

Supplies

**II.1.4) Short description**

NanoString GeoMX and nCounter instruments

### **II.1.6) Information about lots**

This contract is divided into lots: No

### **II.1.7) Total value of the procurement (excluding VAT)**

Value excluding VAT: £300,000

## **II.2) Description**

### **II.2.2) Additional CPV code(s)**

- 38432000 - Analysis apparatus

### **II.2.3) Place of performance**

NUTS codes

- UKL22 - Cardiff and Vale of Glamorgan

### **II.2.4) Description of the procurement**

The GeoMx DSP is a novel digital technology (proprietary to NanoString) that is based on multiplexed measurement of protein and nucleic acids and offers unparalleled levels of precision coupled with the ability to quantify up to 96 proteins and over 1000 RNA targets on a formalin-fixed, paraffinembedded (FFPE) tissue section on a microscope slide.

### **II.2.11) Information about options**

Options: No

### **II.2.13) Information about European Union Funds**

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

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## Section IV. Procedure

### IV.1) Description

#### IV.1.1) Type of procedure

Award of a contract without prior publication of a call for competition in the cases listed below

- The procurement falls outside the scope of application of the regulations

Explanation:

The GeoMx Digital Spatial Profiler (DSP)

is only available from NanoString

Technologies, Inc.

The GeoMx DSP is a novel digital technology (proprietary to NanoString) that is based on multiplexed measurement of protein and nucleic acids and offers unparalleled levels of precision coupled with the ability to quantify up to 96 proteins and over 1000 RNA targets on a formalin-fixed, paraffinembedded (FFPE) tissue section on a microscope slide.

In contrast to the sequential analysis of multi-target immunohistochemistry (IHC) slides, the GeoMx DSP samples all protein or RNA analytes on a single slide. This not only shortens experiments and simplifies data analysis, but also provides a higher multiplexing capacity (96 targets) all with spatial context from Formalin-Fixed, Paraffin-Embedded (FFPE) tissue sections.

Based on NanoString's proprietary digital barcoding technology, the GeoMx DSP platform measures local protein levels, and can be combined with RNA expression, within heterogeneous tissue samples. Combining both multiplexed nucleic acid and protein on the same platform gives researchers the ability to spatially resolve RNA when suitable antibodies do not exist. The GeoMx DSP assay is performed on the GeoMx DSP platform which includes imaging and fluidic components to capture spatial context, and current nCounter® or next-generation sequencing (NGS) instruments provide the quantification.

Protein detection is enabled via primary antibodies which are covalently attached via a UV photocleavable linker to DNA indexing oligos. Following antigen retrieval, FFPE tissue samples are stained with a multiplexed cocktail of labeled antibodies, and DNA oligos are subsequently released by UV light exposure across regions of interest. The liberated DNA oligos are then hybridized to optical barcodes for quantitation on an nCounter or NGS instrument. This technique enables quantitative, multiplexed protein detection up to 5.5 logs of dynamic range.

Key Features and Benefits of DSP technology

- Multiplex many analytes on one tissue section in a single pass
- Quantitation based on linear single-molecule counting: up to 5.5 logs
- Single-cell limit of detection
- Non-destructive: sample completely intact after assay
- Single antigen retrieval without effects from order-of-addition

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

The procurement is covered by the Government Procurement Agreement: Yes

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### **Section V. Award of contract/concession**

#### **Contract No**

CU.732.TH

A contract/lot is awarded: Yes

#### **V.2) Award of contract/concession**

##### **V.2.1) Date of conclusion of the contract**

15 September 2021

##### **V.2.2) Information about tenders**

The contract has been awarded to a group of economic operators: No

##### **V.2.3) Name and address of the contractor/concessionaire**

NanoString Technologies

St. Marys Court, The Broadway

Amersham

HP70UT

Telephone

+44 7468604366

Country

United Kingdom

NUTS code

- UK - United Kingdom

The contractor/concessionaire is an SME

Yes

**V.2.4) Information on value of contract/lot/concession (excluding VAT)**

Total value of the contract/lot/concession: £300,000

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## **Section VI. Complementary information**

### **VI.3) Additional information**

(WA Ref:114050)

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

High Court

Royal Courts of Justice, The Strand

London

WC2A 2LL

Telephone

+44 2079477501

Country

United Kingdom