

Posting Date: May 24, 2024

Closing Date: June 3, 2024, 11:30 a.m. ET

Reference Number: 24-030694

To: NCI Bid Board

From: Viviane Rivera  
NCI CCR P-ARC  
[Viviane.rivera@nih.gov](mailto:Viviane.rivera@nih.gov)

Subject: NCI Bid Board Posting – Custom 10x Genomics Visium/Space Ranger Spatial Transcriptomics Analysis Services of KS in Abemaciclib Study

At the National Cancer Institute (NCI), The HIV and AIDS Malignancy Branch (HAMB) at the National Institutes of Health (NIH), National Cancer Institute (NCI), Center for Cancer Research (CCR), conducts research in AIDS-related malignancies, HIV disease, viral-induced tumors, and related diseases. HAMB requires custom spatial gene expression services, i.e., the mapping of the whole transcriptome and custom RNA in its morphological context, on formalin-fixed, paraffin-embedded (FFPE) tissue samples to study specific viral infections and associated diseases in patient biopsies. This is specifically important in the evaluation of KS samples on study within a protocol to determine the mechanism of action of this treatment.

The primary objective of this purchase is to obtain spatial profiling services of the whole transcriptome from twenty-four (24) de-identified FFPE tissue samples on two (2) slides through the 10X Genomics Visium CytAssist workflow and 10X Genomics Space Ranger data analysis tool. The workflow includes custom probes provided by HAMB.

The National Cancer Institute plans to purchase the Custom 10x Genomics Visium/Space Ranger Spatial Transcriptomics Analysis Services of KS in Abemaciclib Study from University of Michigan, to perform this work. This is not a request for competitive quotation. However, if any interested party believes it can meet the attached requirements, it may submit a statement of capabilities. The capability statement must be in writing and must contain information and material in sufficient detail to allow NCI to determine if the party can fully meet this requirement. The capability statement must be received in the contracting office by 11:30 AM on June 3, 2024, ET. A determination by the Government not to compete this requirement based upon responses to this notice is solely within the discretion of the Government. Information received will be considered solely for the purpose of determining whether to conduct a competitive procurement.

Sole Source Justification:

Other vendors and contractors have been sought and none are able to do the KSHV probes in addition to the sequencing technology. This has been evaluated with available spatial technologies that are currently available. Seeking alternative vendors and contractors would not permit adequate evaluation of samples done with the existing platform and would impact the scientific conclusions.

Attached Documents:

SF18

Statement of Work

FAR Clause 52.213-4 Simplified Acquisitions Terms and Conditions (JAN 2014) is applicable and available in full text upon request

<b>REQUEST FOR QUOTATION</b> <i>(THIS IS NOT AN ORDER)</i>		THIS RFQ <input type="checkbox"/> IS <input checked="" type="checkbox"/> IS NOT A SMALL BUSINESS SET-ASIDE		PAGE OF 1	PAGES 1
1. REQUEST NUMBER <b>POTS 24-030694</b>	2. DATE ISSUED <b>05/24/2024</b>	3. REQUISITION/PURCHASE REQUEST NUMBER <b>POTS 24-030694</b>	4. CERT. FOR NAT. DEF. UNDER BDSA REG. 2 AND/OR DMS REG. 1	RATING	
5a. ISSUED BY		5b. FOR INFORMATION CALL (NO COLLECT CALLS)		6. DELIVER BY (Date) <b>06/05/2024</b>	
NAME  <b>Viviane Rivera Chevez</b>		TELEPHONE NUMBER AREA CODE: <b>240</b> NUMBER: <b>760-7125</b>		7. DELIVERY <input type="checkbox"/> FOB DESTINATION <input checked="" type="checkbox"/> OTHER (See Schedule) 9. DESTINATION	
8. TO:		a. NAME OF CONSIGNEE <b>Ramya RAMASWAMI 240.506.1088</b>			
a. NAME		b. COMPANY		b. STREET ADDRESS <b>10 Center Dr, Bldg 10 Rm 6N110</b>	
c. STREET ADDRESS				c. CITY <b>Bethesda</b>	
d. CITY		e. STATE	f. ZIP CODE	d. STATE <b>MD</b>	e. ZIP CODE <b>20892</b>
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a ON OR BEFORE CLOSE OF BUSINESS (Date) <b>06/03/2024</b>		IMPORTANT: This is a request for information and quotations furnished are not offers. If you are unable to quote, please so indicate on this form and return it to the address in Block 5a. This request does not commit the Government to pay any costs incurred in the preparation of the submission of this quotation or to contract for supplies or service. Supplies are of domestic origin unless otherwise indicated by quoter. Any representations and/or certifications attached to this Request for Quotation must be completed by the quoter.			

**11. SCHEDULE (Include applicable Federal, State and local taxes)**

ITEM NUMBER (a)	SUPPLIES/SERVICES (b)	QUANTITY (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)
1	10x CytAssist HD for Visium samples	1			\$0.00
2	NovaX 10B 300 cycle	1			\$0.00
<p>Notice of Intent: If submitting a capability statement, please email only 1 copy of the technical capability statement to Viviane Rivera <a href="mailto:viviane.rivera@nih.gov">viviane.rivera@nih.gov</a></p> <p>See attached Statement of Need.</p> <p>This will be awarded as a Firm-Priced Contract.</p>					

12. DISCOUNT FOR PROMPT PAYMENT	a. 10 CALENDAR DAYS (%)	b. 20 CALENDAR DAYS (%)	c. 30 CALENDAR DAYS (%)	d. CALENDAR DAYS
			0.00	NUMBER PERCENTAGE

NOTE: Additional provisions and representations  are  are not attached.

13. NAME AND ADDRESS OF QUOTER			14. SIGNATURE OF PERSON AUTHORIZED TO SIGN QUOTATION		15. DATE OF QUOTATION	
a. NAME OF QUOTER			16. SIGNER		b. TELEPHONE	
b. STREET ADDRESS						
c. COUNTY			a. NAME (Type or print)		AREA CODE	
d. CITY		e. STATE	f. ZIP CODE	c. TITLE (Type or print)		NUMBER

## STATEMENT OF WORK (SOW)

**Instructions: This document should be used for the acquisition of SERVICES. Instructions (and sample language) for completion are in red, and should be excluded from the completed document.**

### 1.0 TITLE

Custom 10x Genomics Visium/Space Ranger Spatial Transcriptomics Analysis Services of KS in Abemaciclib Study

### 2.0 BACKGROUND

The HIV and AIDS Malignancy Branch (HAMB) at the National Institutes of Health (NIH), National Cancer Institute (NCI), Center for Cancer Research (CCR), conducts research in AIDS-related malignancies, HIV disease, viral-induced tumors, and related diseases. HAMB requires custom spatial gene expression services, i.e., the mapping of the whole transcriptome and custom RNA in its morphological context, on formalin-fixed, paraffin-embedded (FFPE) tissue samples to study specific viral infections and associated diseases in patient biopsies. This is specifically important in the evaluation of KS samples on study within a protocol to determine the mechanism of action of this treatment.

### 2.1 OBJECTIVE

The objective is to obtain spatial profiling services of the whole transcriptome from twenty-four (24) de-identified FFPE tissue samples on two (2) slides through the 10X Genomics Visium CytAssist workflow and 10X Genomics Space Ranger data analysis tool. The workflow includes custom probes provided by HAMB.

### 3.0 SCOPE

The scope of the work to be performed by the Contractor shall include histological hematoxylin and eosin (H&E) staining and brightfield imaging; followed by the Visium CytAssist workflow, to include HAMB custom probes, for library preparation and sequencing, and 10x Genomics Space Ranger data processing/analysis services.

### 4.0 CONTRACT REQUIREMENTS/ AND PERSONNEL QUALIFICATIONS **(IF APPLICABLE)**

HAMB will section FFPE tissues from 4 biopsy samples onto two (2) plain glass slides. HAMB will send the slides an individual shipment within 30 days upon award to the Contractor for

## STATEMENT OF WORK (SOW)

further processing. Additionally, HAMB will ship custom probes to the Contractor which shall be included in the workflow.

All samples received by the Contractor will be de-identified. The Contractor shall destroy any residual samples within 6 months following the completion of analysis. All data generated shall be the sole property of the U.S. Government.

Independently and not as an agent of the Government, the Contractor shall provide all labor, materials, and equipment required to perform the following tasks:

1. Upon receipt of samples on slides from the Government, the Contractor shall conduct standard histological workflow; to include deparaffinization, H&E staining, and brightfield microscope imaging.
2. The Contractor shall then permeabilize the tissues for probe hybridization/barcoding for whole transcriptome gene expression profiling (approximately 18,000 targets).
3. The Contractor shall then capture all RNA, and construct 10x Genomics Visium libraries.
4. The Contractor shall then sequence the libraries, using existing short-read sequencer, 300-cycle, on Illumina NovaSeq X.
5. The Contractor shall then use the sequencing files and images to analyze the data with 10X Genomics Space Ranger analysis tools.

Custom primers provided by NCI/HAMB shall be included into the workflow as appropriate.

Immediately upon completion, all results shall be sent directly to the Government's Technical Point of Contact (see Section 9.0 below).

### 5.0 TYPE OF ORDER

This shall be a firm fixed-price purchase order for non-severable services.

### 6.0 PERIOD OF PERFORMANCE

The Period of Performance shall be for six months, as follows: 6/05/24 - 12/05/24

### 7.0 PLACE OF PERFORMANCE

All work shall be performed at the Contractor's facilities.

### 8.0 REPORT(S)/DELIVERABLES AND DELIVERY SCHEDULE

Deliverable	Description	Due Date
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## STATEMENT OF WORK (SOW)

1	High resolution images of the samples, to be submitted in .tiff file format	Within 100 business days of award
2	Raw sequencing data of the samples, to be submitted in FASTQ file format	Within 100 business days of award
3	Space Ranger spatial gene expression analysis data for the samples, to be made available via a secured web link in .cloupe file format	Within 100 business days of award

### 9.0 PAYMENT

Payment shall be made once. Payment authorization requires submission and approval of invoices to the COR and NIH OFM, in accordance with the attached payment provisions listed below:

The following clause is applicable to all Purchase Orders, Task or Delivery Orders, and Blanket Purchase Agreement (BPA) Calls: PROMPT PAYMENT (JUL 2013) FAR 52.232-25. Highlights of this clause and NIH implementation requirements follow:

#### I INVOICE REQUIREMENTS

A. An invoice is the Contractor's bill or written request for payment under the contract for supplies delivered or services performed. A proper invoice is an "Original" which must include the items listed in subdivisions 1 through 12, below, in addition to the requirements of FAR 32.9. If the invoice does not comply with these requirements, the Contractor will be notified of the defect within 7 days after the date the designated billing office received the invoice (3 days for meat, meat food products, or fish, and 5 days for perishable agricultural commodities, dairy products, edible fats or oils) with a statement of the reasons why it is not a proper invoice. (See exceptions under II., below.) Untimely notification will be taken into account in the computation of any interest penalty owed the Contractor.

1. Vendor/Contractor: Name, Address, Point of Contact for the invoice (Name, title, telephone number, e-mail and mailing address of point of contact).
2. Remit-to address (Name and complete mailing address to send payment).
3. Remittance name must match exactly with name on original order/contract. If the Remittance name differs from the Legal Business Name, then both names must appear on the invoice.
4. Invoice date.
5. Unique invoice #s for all invoices per vendor regardless of site.
6. NBS document number formats must be included for awards created in the NBS: Contract Number; Purchase Order Number; Task or Delivery Order Number and Source Award Number (e.g., Indefinite Delivery Contract number; General Services Administration number); or, BPA Call Number and BPA Parent Award Number.
7. Data Universal Numbering System (DUNS) or DUNS + 4 as registered in the Central Contractor Registration (CCR).

## STATEMENT OF WORK (SOW)

8. Federal Taxpayer Identification Number (TIN). In those exceptional cases where a contractor does not have a DUNS number or TIN, a Vendor Identification Number (VIN) must be referenced on the invoice. The VIN is the number that appears after the contractor's name on the face page of the award document.
9. Identify that payment is to be made using a three-way match.
10. Description of supplies/services that match the description on the award, by line billed.\*
11. Freight or delivery charge must be billed as shown on the award. If it is included in the item price do not bill it separately. If identified in the award as a separate line item, it must be billed separately.
12. Quantity, Unit of Measure, Unit Price, Extended Price of supplies delivered or services performed, as applicable, and that match the line items specified in the award.\*

\* NOTE: If your invoice must differ from the line items on the award, please contact the Contracting Officer before submitting the invoice. A modification to the order or contract may be needed before the invoice can be submitted and paid.

B. Shipping costs will be reimbursed only if authorized by the Contract/Purchase Order. If authorized, shipping costs must be itemized. Where shipping costs exceed \$100, the invoice must be supported by a bill of lading or a paid carrier's receipt.

C. Mail an original and 1 copy of the itemized invoice to:

National Institutes of Health  
Office of Financial Management, Commercial Accounts  
2115 East Jefferson Street, Room 4B-432, MSC 8500  
Bethesda, MD 20892-8500

For inquiries regarding payment call: (301) 496-6088

In order to facilitate the prompt payment of invoices, it is recommended that the vendor submit a photocopy of the invoice to the "Consignee" designated for the acquisition in blocks 6A – 6E of the face page of the Order/Award document.

## II. INVOICE PAYMENT

- A. Except as indicated in paragraph B., below, the due date for making invoice payments by the designated payment office shall be the later of the following two events:
  1. The 30th day after the designated billing office has received a proper invoice.
  2. The 30th day after Government acceptance of supplies delivered or services performed.

## STATEMENT OF WORK (SOW)

- B. The due date for making invoice payments for meat and meat food products, perishable agricultural commodities, dairy products, and edible fats or oils, shall be in accordance with the Prompt Payment Act, as amended.

### III. INTEREST PENALTIES

- A. An interest penalty shall be paid automatically, if payment is not made by the due date and the conditions listed below are met, if applicable.
  - 1. A proper invoice was received by the designated billing office.
  - 2. A receiving report or other Government documentation authorizing payment was processed and there was no disagreement over quantity, quality, or contractor compliance with a term or condition.
  - 3. In the case of a final invoice for any balance of funds due the contractor for supplies delivered or services performed, the amount was not subject to further settlement actions between the Government and the Contractor.
- B. Determination of interest and penalties due will be made in accordance with the provisions of the Prompt Payment Act, as amended, the Contract Disputes Act, and regulations issued by the Office of Management and Budget.

### IV. PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS, FAR 52.232-40 (DEC 2013)

- a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
- b) The acceleration of payments under this clause does not provide any new rights under the prompt Payment Act.

Include the substance of this clause, include this paragraph c, in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.