Ref. No. 22/Stores (DO)/RB/Proprietary/2013-14/FSC  Dated: 27.02.2014

Sub:- Purchase of Software for Microarray for the department of Reproductive Biology, (AIIMS), New Delhi-29, on proprietary basis inviting comments thereon.

******

The Institute is in the process to purchase Software for Microarray for the department of Reproductive Biology, (AIIMS), New Delhi from M/s. BioDiscovery on proprietary basis. The proposal submitted by M/s. BioDiscovery and PAC Certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference No.22/Stores (DO)/RB/Proprietary/2013-14/FSC. The comments should be received by office of Sr. Stores Officer (DO), Store Section (DO), Animal House Building, Near Biotechnology Building at AIIMS on or before 15.03.2014 upto 12.30 p.m., failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

Yours faithfully,

Sr. STORES OFFICER

Encl: Related documents enclosed.
# Proforma Invoice

**BioDiscovery**

5155 ROSECRANS AVE. SUITE 310
HAWTHORNE, CA 90250

Phone: (310) 414-8100  Fax: (310) 414-8111

**Bill To**

All India Institute of Medical Sciences
Genetic unit Old O.T Block, AIIMS
New Delhi, Delhi 110029
India

**Ship To**

Send electronically to Ashutosh Halder:
ashutoshhalder@gmail.com

<table>
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<td>BD88120-AS3</td>
<td>Nexus Copy Number Standard Edition 3-Year License Node-Lock. Serial Number: BDINX1086</td>
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- 40% Academic Discount
- 15% Multi-Year Discount

**Wire Transfer**

PAYMENTS MUST BE MADE VIA WIRE TRANSFER. WE DO NOT ACCEPT CHECKS AT THIS TIME.

Wire Transfer Information:
Pay to: FC--Wells Fargo Bank, 420 Montgomery St., San Francisco, CA 94104 USA
Routing & Transit #: 0FW:121000248, Swift Code: WFBKUS6S
For Credit of: BioDiscovery Inc, Final Credit Account #: 7833435816

---

Quote #12814HA01254
*Prices Not Listed*

Total (in USD) $0.00

---

*Dr. Ashutosh Halder*

Additional Professor

Department of Biological Sciences

Page 2 of 8
Nexus Copy Number and Nexus Expression Software

BioDiscovery, Inc. is the sole manufacturer and distributor of Nexus Copy Number and Nexus Expression Software packages.

The following features are unique to Nexus Copy Number software package:

- Proprietary Rank and FASST segmentation algorithms for making calls based on Log-R values.
- Proprietary SNPRank and SNP-FASST segmentation algorithms for making calls based on Log-R values as well as B-Aisle freq.
- Unique Predictive Power statistical tool for identification of genomic loci correlated with a continuous value phenotype.
- Efficient processing handling thousands of high-density arrays within a single project.
- Multi-class profile visualization allowing a large number of samples with similar biological factors (e.g., Age group, cancer type, etc) to be visualized together in an intuitive and rapid fashion.
- Pair-wise statistical testing to identify regions of significant difference in copy number change between groups of samples. For example, regions of chromosomal loss/gain that are statistically different in different cancer sub-types.
- Statistical enrichment analysis identifying biological functions that are affected in a population by copy number change.
- Unique unsupervised clustering on genomic profiles allows grouping of samples into distinct clusters based on the pattern of DNA copy number change.
- Integrated statistical test for identification of significant common aberrations in a selected population using the published STAC algorithm.
- Integration of gene and miRNA expression results with copy number data using set operation and Fisher's Exact test statistics.
- Unique gene set based enrichment analysis.
- Platform-independent allowing for processing of all commercial arrays and many home-spotted systems.
- Efficient and robust segmentation algorithm applicable to a broad spectrum of arrays identifying even very small aberrations while being computationally efficient.
- Intuitive user interface designed to be used by research scientist not bioinformatics experts. Only a single button is needed to go from a set of files to a frequency plot.
• Biological questions, such as areas of significant difference between grade 3 and grade 1 tumor are formulated using a simple wizard and presented in an intuitive form
• Direct data transfer between Nexus Expression and Nexus Copy Number

The following features are unique to Nexus Expression software package

• A platform independent solution (support for all commercial platforms and custom arrays)
• Statistical computation of differentially regulated genes (with batch effect correction)
• Cluster samples and genes to discover expression patterns. Color code samples based on phenotypes
• Simultaneously compare expression profiles of multiple comparisons alongside gene annotations
• Identify and display significant genes in affected biological processes comparing between sample groups
• Find similarly regulated genes among a group of differentially regulated genes
• Generate Kaplan Meier plots to estimate survival of different populations
• Find Gene Ontology terms as well as other custom pathway terms that are significantly over-represented among a sub-group (e.g. downregulated genes in short vs. long term survivors)
• Perform integrated Gene Set Enrichment Analysis (GSEA) computation

Signature
Soheil Shams, CEO

Date
July 24, 2013
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029

PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE

1. Item/Type/Model No. required along with Specifications
   - "Standard Edition 3-Year License for software"
   - Software for microarray.

2. Is the item a spare part attachment or accessory for an existing equipment
   - Yes

3. Name of the manufacturers/supplier of the item proposed by the indenter

4. Are they sole manufacturers/sole distributors of the item
   - Yes Manufactured by M/s. Bio-Discovery

5. Is there any other item with similar/equivalent specification available in the market to meet the job requirement envisaged? If the answer is yes, why the same can’t be procured. Demanding Officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other
   - Because of Proprietary item

6. What were the efforts made to locate alternative source of supply or use other substitutes
   - Because of Proprietary items

7. Why open/limited tender can’t be restored to, for locating alternative source.
   - Because of Proprietary item

8. Price is reasonable or not - “Attached Price Reasonable Certificate”

9. Any other justification for procuring item from single source
   - Only because of Proprietary items

I certify that the item at SN 1 above is required to be procured on single tender basis as the source of supply is definitely known/the specified brand proposed was advantageous in meeting our requirements and limited tender system could be dispensed with as they would serve no useful purpose this particular case

Signature of Indenter

(Demanding Officer)

Signature of Professor

(Head of the Department)

COUNTERSIGNED

Authorised Signature

Head of the Department of Reproductive Biology

Head of the Department of Medical Sciences

Name: A.K. MD

Date: [Insert Date]

Page 5 of 8
## BioDiscovery Invoice

5155 ROSECRANS AVE. SUITE 310
HAWTHORNE, CA 90250
www.biодiscovery.com

**Bill To:**
All India Institute of Medical Sciences
Genetic unit, Old O.T. Block, AIIMS
New Delhi, Delhi 110029
India

**Ship To:**
Send electronically to Ashutosh Haider:
ashutoshhaider@gmail.com

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**Quantity** | **Item Code** | **Description** | **Price Each** | **Amount**
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1 | Wire Transfer | PAYMENTS MUST BE MADE VIA WIRE TRANSFER. WE DO NOT ACCEPT CHECKS AT THIS TIME. | 0.00 | 0.00 |
--- | BD8120-AS3 | Special Discount: 15% Multi-Year Discount. 10% Special Discount. **Special Discount applies only if payment is received before August 30, 2013, or before the expiration of this quote.** Out of state sales, exempt from sales tax. | | |
--- | BD8120-AS3 | **Total** | | $9,976.36 |
---

**Quote #425313A00929**

**SPECIAL THANKS, MD.**

**President**

---

*Signature of Mamta Kumar, MD*
SALES QUOTATION

"ACADEMIC PRICING"

Biodiscovery
5155 W Rosacrans Ave., Suite 310
Hawthorne, CA 90250
Ph: 310-414-8100, Fax: 310-414-8111
Email: customerservice@biodiscovery.com

Bill To Name: All India Institute of Medical Sciences
Bill To: Genetic unit Old O.T Block, AIIMS
New Delhi, Delhi 110029
India
Contact Name: Anil Kumar Hadli

Created Date: 4/25/2013
Expiration Date: 8/20/2013
Quote #: 42513HA00029

Thank you for considering Biodiscovery, Inc.

Additional Terms and Conditions:
- Freight/Shipping NOT included - charges will be prepaid and
ADDED to the invoice by Biodiscovery, Inc.
- When submitted by an authorized Biodiscovery Representative, this
document represents a firm price quotation to sell the products
cited above, subject to the terms and conditions contained in this
document.
- Once license is purchased, customers have up to 3 months to
activate the license.
- Unless otherwise stated, all prices are quoted in US dollars.
- Biodiscovery reserves the right to reject any purchase order
received after the "Expiration Date" on this price quotation.
- Biodiscovery extends payment terms of Net 30 days from the date
of invoice to creditworthy customers.
- All software service and maintenance are in accordance with
Paragraph 4 of the Terms and Conditions document.
- All checks should be made payable in US dollars to Biodiscovery,
Inc.
<table>
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<th>Product Description</th>
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<tr>
<td>1.00</td>
<td>BD9120-AS1</td>
<td>Nexus Copy Number Standard Edition 3-Year License Node-Lock. A complete genomics-platform independent solution for analysis, visualization and integration of DNA copy number data with support for aCGH and SNP arrays, as well as sequencing platforms. Nexus provides automated multi-sample data processing and visualization allowing discovery of minimum areas of common copy number aberrations, simple classification of events, the ability to query events over thousands of samples in both the local database and external reference data, and integration with public databases. Nexus allows for annotation of individual events and classification of samples, as well as exporting data for reporting. It includes access to Nexus DB repository and storage source. Also includes the Sequence Variants Module and Allele Specific Computation Module. ** Price reflects 40% Academic Discount **</td>
<td>USD 13,041.00</td>
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<tr>
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<td>DISC</td>
<td>Discount 15% Multi-Year Discount</td>
<td>USD -1,968.15</td>
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<td>Discount 10% Special Discount ** Special Discount applies only if payment is received before August 30, 2013, or before the expiration of this quote, **</td>
<td>USD -1,108.49</td>
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<td>BANK INFORMATION: Pay to: PD-Wells Fargo Bank, 420 Montgomery St., San Francisco, CA 94104 USA For Credit of BioDiscovery Inc Routing &amp; Transit #: A020121000248 Final Credit Account #: 76334288185 Swift Code: WFRUS585</td>
<td>USD 0.00</td>
</tr>
</tbody>
</table>

**ACADEMIC LICENSE PRICING ** Not for commercial use. 

| Total Price | USD 9,978.36 |
| Grand Total | USD 9,978.36 |

Additional Terms and Conditions:
- ** Freight/ Shipping NOT included - charges will be prepaid and ADDED to the invoice by BioDiscovery, Inc.**
- When submitted by an authorized BioDiscovery Representative, this document represents a firm price quotation to sell the products described above, subject to the terms and conditions contained in this document.
- ** Once License is purchased, customers have up to 3 months to activate the license. Unless otherwise stated, all prices are quoted in US dollars.**
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Thank you for considering BioDiscovery, Inc.