



**YENEPOYA**

(DEEMED TO BE UNIVERSITY)  
Recognized under Sec 3(A) of the UGC Act 1956  
Accredited by NAAC with 'A' Grade

## Details of the Collaborative Activity

2017-18

**Name of the Collaborating Institute:** Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, Jammu and Kashmir (SKUAST)

**Name of the Collaborating Department:** Yenepoya Research Center.

**Year of MoU:** 2018

### Activities:

MoU was signed between Center for Systems Biology and Molecular Medicine, Yenepoya Research Center and Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, Jammu and Kashmir (SKUAST) in 2018 for Facility usage, student & faculty training, OMICS analysis and data interpretation.

### Joint Research:

Dr. Keshav Prasad, Center for Systems Biology and Molecular Medicine, Yenepoya Research Center and Dr. Hina F Bhat and Dr. Riaz A Shah, Dept. of Biotechnology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, Jammu and Kashmir (SKUAST) collaborated for the proteomic analysis of the project "Omics-based discovery of altered signaling networks and metabolites in determining and deciphering new biological phenomenon with respect to various biological conditions in smodel organisms such as yeast."

Mr. Mohammed Althaf Najar represented YDU at the Annual conference organized by Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, Jammu and Kashmir (SKUAST) and visited laboratory of Dr. Hina Bhat Dept. of Biotechnology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir.

ATTESTED

Dr.Gangadhara Somayaji K.S.  
Registrar  
Yenepoya(Deemed to be University)  
University Road, Deralakatte  
Mangalore- 575 018, Karnataka





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**YENEPOYA RESEARCH CENTRE**

Yenepoya University  
University Road, Deralakatte  
Mangalore -575 018.  
Email : research@yenepoya.edu.in  
Ph : +91 8242204668/69/70, Ext. : 2035

**Proforma Invoice**

|  |   |  |                       |                         |
|--|---|--|-----------------------|-------------------------|
| <b>Customer Name and Address:</b>  |   | <b>No. Y R C / C P 0 1 8 - 1 8</b>   |                       |                         |
| <b>Dr. Hina F. Bhat</b><br><b>Assistant Professor/ Junior</b><br><b>Scientist,</b><br><b>Division of Biotechnology,</b><br><b>Faculty of Veterinary Sciences</b><br><b>&amp; A.H (F.V.Sc),</b><br><b>SKUAST - Kashmir, Shuhama,</b><br><b>Srinagar, J &amp; K - 190006, India</b><br><br><b>GSTIN - Please provide</b> |   | <b>Date</b>  | 19-03-2018            |                         |
| <b>Sl. No.</b>   | <b>Description of services</b>            | <b>Unit Cost (INR)</b>   | <b>No. of samples</b> | <b>Total cost (INR)</b> |
| 1  | Proteomic analysis of 4 pull down samples | 8000.00  | 04                    | 32000.00                |
| IGST (@18%)  |   |  |                       | 5760.00 <sup>0</sup>    |
| <b>GRAND TOTAL (INR)</b>   |   |  |                       | <b>37,760.00</b>        |
| Amount in words: Rupees Thirty Seven Thousand Seven Hundred Sixty only   |   |  |                       |                         |
| <br>Faculty Director<br>Yenepoya Research Centre<br>Yenepoya University<br>Authorised Signature   |   | Seal<br> |                       |                         |

GSTIN: 29AAATY1645F12c PAN: AAATY1645F

**Payment terms:**

- Cheque/DD** in favour of **Yenepoya Research Centre**, Yenepoya (Deemed to be University), University Road, Deralakatte, Mangalore - 575018
- Internet banking**  
**A/C Yenepoya Research Centre**  
 Vijaya Bank, Yenepoya University Branch, Deralakatte, Mangaluru,  
 SB A/c No: 182701011001151  
 IFSC Code: VIJB 0001827
- Payment should be made within 30 days from the invoice date.

For queries contact:  
Tel No. 0824 2204668 Extn 2035  
Email: research@yenepoya.edu.in

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*Add Request email*

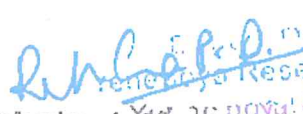

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Mangalore -575 018.

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Ph : +91 8242204668/69/70, Ext . 2035

**Proforma Invoice**

| <b>Customer Name and Address:</b>   |   | <b>No.</b>   | YRC/CP017-18   |                  |
|---|---|--|----------------|------------------|
| Dr. Hina F. Bhat<br>Assistant Professor/ Junior<br>Scientist,<br>Division of Biotechnology,<br>Faculty of Veterinary Sciences<br>& A.H (F.V.Sc),<br>SKUAST - Kashmir, Shuhama,<br>Srinagar, J & K - 190006, India |   | <b>Date</b>  | 14-03-2018     |                  |
| GSTIN - Please provide  |   |  |                |                  |
| Sl. No.   | Description of services                   | Unit Cost (INR)  | No. of samples | Total cost (INR) |
| 1   | Proteomic analysis of 4 pull down samples | 8000.00  | 04             | 32000.00         |
| IGST (@18%)   |   |  |                | 5760.00          |
| <b>GRAND TOTAL (INR)</b>  |   |  |                | <b>37,760.00</b> |
| Amount in words: Rupees Thirty Seven Thousand Seven Hundred Sixty only  |   |  |                |                  |
| <br>Authorised Signatory<br>Yenepoya Research Centre<br>Yenepoya University<br>University Road, Mangalore 575 018              |   | Seal<br> |                |                  |

GSTIN: 29AAATY1645F1Zc PAN: AAATY1645F

**Payment terms:**

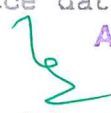
- Cheque/DD** in favour of **Yenepoya Research Centre**, Yenepoya (Deemed to be University), University Road, Deralakatte, Mangalore - 575018
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A/C Yenepoya Research Centre  
Vijaya Bank, Yenepoya University Branch, Deralakatte, Mangaluru,  
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Mangalore- 575 018, Karnataka

### Invoice


| <b>Customer Name and Address:</b>   |  | <b>No.</b>   | YRC/CP015-18   |                  |
|---|--|--|----------------|------------------|
| Dr. Hina F. Bhat<br>Assistant Professor/ Junior<br>Scientist,<br>Division of Biotechnology,<br>Faculty of Veterinary Sciences<br>& A.H (F.V.Sc),<br>SKUAST - Kashmir, Shuhama,<br>Srinagar, J & K - 190006, India |  | <b>Date</b>  | 08-03-2018     |                  |
| GSTIN - Please provide  |  |  |                |                  |
| Sl. No.   | Description of services                      | Unit Cost (INR)  | No. of samples | Total cost (INR) |
| 1   | Proteomic analysis of 2<br>subl down samples | 8000.00  | 02             | 16000.00         |
| IGST (@18%)   |  |  |                | 2880.00          |
| <b>GRAND TOTAL (INR)</b>  |  |  |                | <b>18,880.00</b> |
| Amount in words: Rupees Eighteen Thousand Eight Hundred Eighty only   |  |  |                |                  |
| <br>Authorised Signature   |  | Deputy Director<br>Yenepoya Research Centre<br>Yenepoya (Deemed to be University)<br>Deralakatte, Mangaluru-575018 |                |                  |
|   |  | Seal   |                |                  |

GSTIN: 29AAATY1645F1Zc PAN: AAATY1645F

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No: YU/REG/ACA/Cong/2018

16.05.2018

Mr. Mohammed Altaf Najar  
UGC CSIR  
Junior Research Fellow  
Yenepoya Research Centre

Through: **Dy. Director, YRC**

Dear Mr. Mohammed Altaf Najar

The Yenepoya University is extremely pleased to learn that you have won first place at 7<sup>th</sup> Annual Conference of Indian Academy of Biomedical Sciences, organized by the Department of Clinical Biochemistry at Sher-I- Kashmir International Conference Centre, Srinagar Kashmir from 20<sup>th</sup> to 22<sup>nd</sup> April, 2018

On behalf of Hon'ble Chancellor, Hon'ble Vice-Chancellor, Faculty and Staff of Yenepoya University, I congratulate you on this achievement.

*Ruhla P. D -  
16/5/2018.*

*[Signature]*  
Yours sincerely,

**(Dr. G. Shreekumar Menon)**  
**REGISTRAR**

Copy to:

1. Dy. Director, YRC
2. Dr. Bhagya B. Sharma
3. Academic Section

University Road, Deralakatte, Mangaluru - 575 018.

T: +91 824 220 4676 / 4668 / 4669 / 4671 / 2192 / 2193 F: +91 824 220 4667 E: reachus@yenepoya.org

www.yenepoya.edu.in



## MEMORANDUM OF UNDERSTANDING

Between

**Sher-e-Kashmir University of Agricultural Sciences and Technology  
of Kashmir (SKUAST-Kashmir)**

AND

**CENTER FOR SYSTEMS BIOLOGY AND MOLECULAR  
MEDICINE,**

Yenepoya Research Center, Yenepoya University, Deralakatte,  
Mangalore- 575 018, Karnataka, India.

ATTESTED

  
**Dr. Gangadhara Somayaji K S**  
Registrar  
Yenepoya (Deemed to be University)  
University Road, Deralakatte  
Mangalore 575 018, Karnataka.



## MEMORANDUM OF UNDERSTANDING

This agreement is entered into at Mangalore on this day the 20<sup>th</sup> in the month of December in the year two thousand and sixteen between

**Center for Systems Biology and Molecular Medicine, Yenepoya Research Center, Yenepoya University, Deralakatte, Mangalore 575 018, Karnataka, India (hereinafter called 'CSBMM')**

AND

**Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-Kashmir) (hereinafter called 'SKUAST')**

WHEREAS CSBMM is an academic research center at Yenepoya University, Mangalore, engaged in the genomic, proteomic and metabolomic approaches to investigate biological systems including model organisms such as yeast, worm, fly, mouse to human

WHEREAS SKUAST is a state university involved in the research in agricultural and veterinary Sciences. Both the above parties held discussions at various times to enter into an agreement related to matters of mutual interest and decided to deduce their respective roles and points of agreement jointly hereunder:

### The following are the conditions of the MOU

1. Both the parties decided to work closely on research projects pertaining to OMICs-based discovery of altered signaling networks and metabolites in determining and deciphering new biological phenomenon with respect to various biological conditions in model organisms such as yeast. These research projects will be an attempt to enhance the knowledge in the fields of molecular dynamics associated with biological systems.
2. Dr. Keshava Prasad and other scientists assigned by the Center will represent the CSBMM and Dr. Hina F Bhat, Dr. Riaz A Shah and other scientists will represent SKUAST. They will supervise the above-mentioned research projects.

2


ATTESTED

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3. Both the parties will work for academic interest. In the event of the outcome of any intellectual property, both the institutes will share it as and then decided upon. All participants from both organizations (*as specified by the representatives of both centers*) will be co-authors in research papers, conference presentation and academic events that emanate from the proposed research projects.
4. As per the mutual agreement, following Scientific Review Board and Ethics Board approval relevant to selected research projects, wherever applicable, SKUAST will facilitate and extend; expertise, consultations, and specimens for analysis as appropriate.
5. SKUAST will provide all the logistics, consumables for sample collection, storage and subsequent transport and analysis. Cost of sequencing and mass spectrometry will be borne by SKUAST research funds.
6. CSBMM will provide the instrumentation time including mass spectrometers, expertise in sample preparation, mass spectrometry, genomics, transcriptomics, metabolomic, bioinformatics data analysis and data interpretation using commercial software.
7. CSBMM also will train SKUAST students in OMICS analysis and data analysis pertaining to the experiments planned. Master's and Ph.D. students of SKUAST would be hosted at CSBMM for up to 6 months during such training period. Hostel facility also would be extended for a reasonable fee.
8. SKUAST and CSBMM scientists will develop joint grant proposals and put efforts to get joint research grants.
9. This study will not involve any type of radioactive material.
10. The tenure of this MOU will be for 3 years from the date of signing, after which it automatically stands renewed for another 5 years unless one of the parties notifies in writing its unwillingness to renew the MOU.

ATTESTED

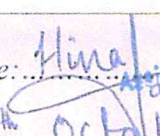
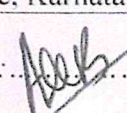
  
**Dr. Gangadhara Somayaji K S**  
Registrar  
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Mangalore 575 018, Karnataka.





11. Any articles of the MOU may be modified or changed by mutual agreement of the parties hereto in writing. The modifications and changes shall be effective from the date on which they are made unless otherwise agreed to.

12. All disagreements, difference of opinion, disputes regarding the interpretation of the provision of this MOU shall be resolved by mutual consultation of the heads of the institute or their authorized representatives.

|  |   |
|--|---|
| <p>Signature: </p> <p>Date: <u>20 Dec 2017</u></p> <p><b>Dr. G. Shreekumar Menon</b><br/>Registrar<br/>Yenepoya University<br/>Mangalore - 575018<br/>Karnataka, India</p>  | <p>Signature: </p> <p>Date: <u>13<sup>th</sup> October 2017</u></p> <p><b>Dr. M.Y. Zargar</b><br/>Director Research<br/>SKUAST-Kashmir,<br/>Srinagar, J&amp;K</p>                               |
| <p>Signature: </p> <p>Date: <u>15 December 2017</u></p> <p><b>Dr. T. S. Keshava Prasad</b><br/>Professor and Deputy Director<br/>Center for Systems Biology and Molecular<br/>Medicine<br/>Yenepoya University<br/>Mangalore, Karnataka, India - 575018</p> | <p>Signature: </p> <p>Date: <u>9<sup>th</sup> October 2017</u></p> <p><b>Dr. Hina F Bhat</b><br/>Assistant Professor/Junior Scientist<br/>Division Of Biotechnology,<br/>SKUAST-Kashmir</p>   |
| <p>Signature: </p> <p>Date: <u>16 Dec 2017</u></p> <p><b>Dr. Arun Bhagwath</b><br/>Professor and Deputy Director<br/>Yenepoya Research Center<br/>Yenepoya University<br/>Mangalore, Karnataka, India - 575018</p>  | <p>Signature: </p> <p>Date: <u>10 Oct 2017</u></p> <p><b>Dr. RIAZ A SHAH</b><br/>Head, Division of Biotechnology<br/>Division Of Biotechnology,<br/>SKUAST-Kashmir<br/>Srinagar, J&amp;K.</p> |

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**Dr. Gangadhara Somayaji K S**  
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