



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 20th 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.

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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.

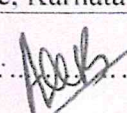
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11. Any articles of the MOU may be modified or changed by mutual agreement of the parties hereto in writing. The modifications and changes shall be effective from the date on which they are made unless otherwise agreed to.

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

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