



## **MEMORANDUM OF UNDERSTANDING**

### **YU-IOB Center for Systems Biology and Molecular Medicine**

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

AND

### **Bengaluru Genomics Center**

Institute of Bioinformatics and Applied Biotechnology  
Biotech Park, Electronics City Phase 1, Electronic City,  
Bengaluru 560100, Karnataka, India.

K.R. Lakshmi



Recognised under Sec 3(A) of UGC Act 1956  
Accredited by NAAC with 'A' Grade

## MEMORANDUM OF UNDERSTANDING

This agreement is entered into at Mangalore on this day the 1st in the month of January in the year two thousand and seventeen between;

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

AND

Bengaluru Genomics Center, Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronics City Phase 1, Electronic City, Bengaluru 560100, Karnataka, India. (hereinafter called 'BGC')

**WHEREAS YU-IOB CSBMM** is an academic research center at Yenepoya University, Mangalore, engaged in the genomic, proteomic and metabolomic approaches to investigate communicable and non-communicable diseases, pathogens, plants and plant products

**WHEREAS BGC** is a Genomics Science Company providing a variety of next generation sequencing services for agriculture, medicine and life science research

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:

A handwritten signature in blue ink, appearing to be 'B.L.' with a long horizontal line extending to the right.

K.R. Lakshmi

## OBJECTIVES

The objectives of this linkage are to develop long-term cooperative activities. The activities may include, but are not limited to, the following:

- 1) Conduct seminars and workshops to educate and train of faculty/staff on genomic medicine.
- 2) Genetic screening of patients for important disease/disorders
- 3) Develop collaborative programs by seeking funding opportunities to provide mutual benefit to each institution's research and outreach activities.

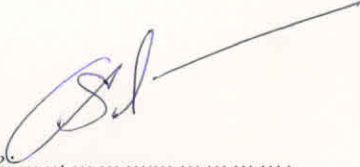


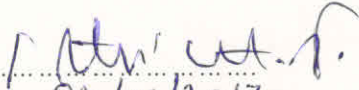


### The following are the conditions of the MOU

1. Both the parties decided to work closely on research projects involving whole genome, transcriptome, exome and targeted sequencing using NextGen sequencing technologies and proteomic and metabolomic analysis using mass spectrometry. These research projects will be an attempt to enhance knowledge in the fields of genomics and transcriptomics of communicable and non-communicable diseases, pathogens, plants and plant products
2. Dr. Keshava Prasad and other scientists will represent the YU-IOB CSBMM and Mrs. Roopalakshmi K., Dr. Malali Gowda, Advisor to BGC and other scientists will represent BGC. They will supervise the above-mentioned research projects.
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 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, BGC will facilitate and extend expertise and consultations, for next generation sequencing as appropriate.



K.R. Lakshmi

5. YU-IOB CSBMM will provide facilitate and extend expertise and consultations, for proteomic and metabolomic analysis as appropriate
6. BGC will provide instrumentation time for NextGen sequencing including Illumina HiSeq and Oxford Nanopore platforms, expertise in library prep, data analysis and interpretation
7. YU-IOB CSBMM will provide the instrumentation time including mass spectrometers, expertise in sample prep, mass spectrometry, data analysis and data interpretation.
8. Both parties will apply for joint grant proposals and services in order to generate funds for consumables used in joint projects.
9. This study will not involve any type of radioactive material.

<p>Signature: </p> <p>Date: 06/02/2017</p> <p><b>Dr. G. Shreekumar Menon</b> Registrar Yenepoya University, Mangalore - 575018, Karnataka, India</p>	<p>Signature: </p> <p>Date: 06/02/2017</p> <p><b>Mrs. Roopalakshmi K</b> Chief Executive Officer Bengaluru Genomics Center Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronics City Phase 1, Electronic City, Bengaluru 560100, Karnataka, India</p>
<p>Signature: </p> <p>Date: 06/02/2017</p> <p><b>Dr. T. S. Keshava Prasad</b> Professor and Deputy Director YU-IOB Center for Systems Biology and Molecular Medicine Yenepoya University Mangalore, Karnataka, India - 575018</p>	<p>Signature: </p> <p>Date: 04/02/2017</p> <p><b>Dr. Pruthvi Chakravarthi . T.</b> Director <b>Bengaluru Genomics Center</b> Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronics City Phase 1, Electronic City, Bengaluru 560100, Karnataka, India</p>
<p>Signature: </p> <p>Date: 06/02/2017</p> <p><b>Dr. Arun Bhagwath</b> Professor and Deputy Director Yenepoya Research Center Yenepoya University Mangalore, Karnataka, India - 575018</p>	<p>Signature: </p> <p>Date: 4.02.2017</p> <p><b>Mr. Rajani kantha</b> Director <b>Bengaluru Genomics Center</b> Institute of Bioinformatics and Applied Biotechnology, Biotech Park, Electronics City Phase 1, Electronic City, Bengaluru 560100, Karnataka, India</p>