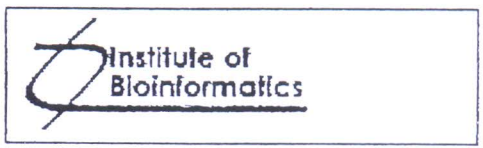




(Recognized under Sec 3(A) of UGC Act 1956)



**MEMORANDUM OF UNDERSTANDING**

Between

**YENEPOYA UNIVERSITY**  
Mangalore -575018  
India

And

**INSTITUTE OF BIOINFORMATICS**  
Unit-1, Discoverer-7<sup>th</sup> Floor  
International Tech Park  
Whitefield,  
Bangalore-560066  
India

## Collaborative Research and Academic Programme

This memorandum of understanding (MOU) sets down the mutually agreed broad framework for joint research and academic activities in various fields of interest between Yenepoya University (YU) and Institute of Bioinformatics (IOB). It also incorporates the modalities of collaboration.

### 1. Preamble:

1.1 Yenepoya University is a deemed to be university, mainly engaged in health care delivery and research in health sciences. It has developed a strong basis for patient care, training programmes and research activities. YU is also the first unaided Deemed University in the district of Dakshina Kannada, Karnataka. Yenepoya University has four constituent colleges; Yenepoya Dental College, Yenepoya Medical College, Yenepoya Nursing College and Yenepoya Physiotherapy College. Yenepoya University has a well-established hospital, Yenepoya Medical College Hospital with 1250 beds with an additional state-of-the-art infrastructure. It offers secondary and tertiary health care (super specialty) and treatment free of cost or at highly subsidized rates to all the needy. It has Intensive care Units, Modern Operation theaters, 24 h Radiology with CT, MRI, Color Doppler, Echo Cardiograph, Endoscopy Units, Blood Bank, 24x7 Central Clinical Lab, Pharmacy, Dialysis Unit, Physiotherapy, Nutrition and Dietetics services, Casualty and Emergency services and thousands of poor patients from Karnataka and neighboring states avail the benefits of health care offered by us. Approximately 75-80 % of the patients visiting the hospital are from Minority and Backward Communities. The food (costing Rs. 65/person/day), bed charges and drugs (more than 150 prescriptions) are provided free of cost to all. Most of the Govt. health care plans and schemes available for the poor, backward and general public are implemented by the hospital. Mortuary services, cold storage and medico legal autopsies are also part of the service provided by the hospital. The Hospital works in association with at least twenty service organizations including orphanages, old age homes, palliative care centers, HIV/AIDS care and support centers, Endosulphan Rehabilitation centers etc. to extend timely free health care service and support. Quality of education is maintained by trained and experienced teaching faculty under the leadership of the Deans of the respective faculty. Best and highly qualified (>90%) faculty with MCh. DM, MD/MS, MDS, Ph.D and MSc. degrees are recruited for teaching and research. Several faculty members enjoy wide national and international recognitions for their exemplary and extraordinary service in their respective areas of specialization.

1.2 The Institute of Bioinformatics (<http://www.ibioinformatics.org>) is a non-profit research institute that was established by Dr. Akhilesh Pandey, who is the Director and Scientific Adviser of IOB and also an Professor at Johns Hopkins University, Baltimore, USA. The institute currently has a research staff of 50 scientists including 9 Ph.D level faculty scientists. **IOB has been recognized as a Scientific and Industrial Research Organization (SIRO) by DSIR (Department of Scientific and Industrial Research) since 2004.** Institute of Bioinformatics is recognized as full time research center to carry out Ph.D. studies by Manipal University, Pondicherry University, Amrita University, KIIT University and Kuvempu University. Currently, 30 students are carrying out their doctoral work at IOB. Because of the close collaboration of IOB with Johns Hopkins University, 5 Ph.D. students are carrying out research work in Dr. Akhilesh Pandey's Laboratory at McKusick-Nathans Institute of Genetic Medicine at Johns Hopkins University, Baltimore, USA. In the last five years, IOB has established state-of-the-art high-resolution tandem mass spectrometry facility for proteomic and metabolomic investigations and an associated wet lab and animal cell culture facility to carry out molecular biology and genomics oriented research. IOB has also collaborated over 50 National and International research institutes, particularly on clinical research in the area of human diseases including cancers, infections and neurological disorders. In a short span of twelve years, the scientists from IOB have been a part

