



उत्तर प्रदेश UTTAR PRADESH

GP 748289

MEMORANDUM OF AGREEMENT (MOA) BETWEEN THE ANTHROPOLOGICAL SURVEY OF INDIA AND THE COLLABORATING INSTITUTION/DEPARTMENT

Preamble

Anthropological Survey of India (An.S.I.) is a specialized centre for advanced scientific research in Anthropology. For over six decades, the An.S.I. has been doing a yeoman's service to the world of knowledge through its contribution to the People of India in respect of their biological, social and cultural heritage. Over the years, the An.S.I. has developed state - of - the-art facilities and expertise to study the genetic composition of the Indian populations from various classical human biological/genetic markers to the latest molecular markers at the genomic level. An.S.I. has an adequate infrastructure as well as the technical expertise to study the genomic diversity in man, including the in-depth study of haemoglobinopathies and thalassaemia. An.S.I. has also been instrumental in creating a national repository of DNA banking facilities, at its offices in Kolkata, Nagpur, Mysore, Shillong and Port Blair.

The Indian subcontinent, a vast land mass inhabited by over a billion people, has a rich and diverse ethnic history. India's distinct belief systems, cultural and social ethos characterize its uniqueness. India has always fascinated human geneticists and a considerable amount of work has already been done in tracing the origin and migration of its various ethnic groups. In the current excitement generated by the human genome project, molecular and genetic approaches have paved an altogether new arena for understanding the study of human diseases. Research in this field would phenomenally flourish in the coming years, especially in India.

क्र. संख्या 2407

स्टाम्प विक्रय की तिथि 8/7/24

स्टाम्प क्रय करने का प्रयोजन

स्टाम्प क्रय का नाम व पूरा पता

स्टाम्प क्रय धनराशि रु. 100

नाम: आरव निजामी स्टाम्प विक्रेता

लाइसेन्स नं० 134

लाइसेन्स की अवधि 31.03.2028

दोषागरी न्यायालय, लखनऊ

डा० नीरज राय डा० जी आर राय



Advances in recombinant DNA technology have brought in an explosion of knowledge in molecular biology as well as in the study of the molecular basis of human evolution. It is now clear that the use of genomic diversity would not only significantly contribute to the field of biomedicine, but would also shed light on the future attempts to explore the origin, evolutionary history and variation of mankind.

In view of all these developments and to pave a new future, the An.S.I. desires collaboration in its various activities from the different University Departments/PG Colleges/ Medical colleges/Institutions of Medicine/Research Foundation/NGOs and for that matter any one who would like to join the study of genomic diversity/People of India with the following broad objectives:

- To understand the genomic diversity of Indian populations in terms of understanding peopling of the country and to evaluate cultural, environmental and genomic risk factors in common diseases,
- To facilitate an extensive array of genetic screening among the target communities who are at high-risk for certain known genetic diseases,
- To create a national database pertaining to genetic disorders and genomic diversity,
- To estimate population prevalence of molecular defects in the genetic disorders with special reference to globin gene clusters (like HbE, HbS, HbD, Thalassaemia etc), G-6PD Deficiency and initiate intervention as a strategy of research program.

The Anthropological Survey of India and the Birbal Sahni Institute of Palaeosciences, 53, University Road, Lucknow the Collaborating Department/research scholar of the Birbal Sahni Institute of Palaeosciences and Anthropological Survey of India, Kolkata, therefore hereby sign this MOA in so far as the implementation of the project "*Reconstruction the population history of South Asia using ancient and modern genomics*". and technical cooperation agreement covering the activities mentioned as under.

The agreement shall remain valid for three years from the date this MOA is signed. The MOA may be renewed after three years subject to assessment of the outcome of the MOA. However, the consultancy would be on a continuous basis with the provision of review of the terms and conditions as and when necessary.

Scope of the MOA:

- MOA details, the broad terms and conditions governing this collaboration and the responsibilities of the two parties in the implementation of the project: -
- The An.S.I and the collaborating partner agree to undertake this collaborative venture on an equal basis and will obtain external funding for the implementation of the project.
- The data and samples will be collected jointly by both the collaborative institutes' investigators. However, if An.S.I's repository samples need to be utilized, in such a case the entire analysis of the sample will be handled by investigators of An.S.I.
- The extracted DNA from each biological sample for investigation would be in the safe custody of the national repository maintained by the An.S.I.
- Both collaborators will strictly maintain the privacy and the confidentiality of the individual DNA profile.
- The An.S.I and the collaborating institute would jointly publish the outcome of the study.

- The An.S.I. and the collaborating institute would jointly hold any patent that emerges from the findings of the collaborative project.
- The Principal Investigators of the An.S.I. and the participating department/Institute would mutually coordinate the scientific programme and collaboration.
- A representative from the An.S.I and/or the collaborative institute will get the ethical consent signed at the time of biological sample collection and a copy of the same would be kept at the National repository of the An.S.I. and also the collaborative institute for record.
- The parties to collaboration would exchange data from each other, whenever necessary and feasible.
- There will be no other collaborations within India or with outside India with the present study samples, without getting permission of Anthropological Survey of India.
- This agreement would expire at the end of the project period unless otherwise extended by the funding agency.

Manpower involvement & Financial Implication:

- As specified in the project proposal and required by the funding agency.

In witness whereof the parties hereto have signed this agreement on the 16th Day in the month of August, 2024 year mentioned hereinbefore.

Parties for and on behalf of An.S.I. and the collaborative Institutes:

Signature.....

Name: PROF. MAHESH G. THAKKAR

Designation: Director, BSIP

Seal.....
 Prof. M.G. Thakkar
 Director
 Bimal Sahnii Institute of Palaeosciences
 (Under Dept. of Science & Technology)
 Govt. of India
 Lucknow-226007

Signature.....

Name: DR. BV SHARMA

Designation: Director, An.S.I

Seal.....

Witnesses (Name & Address)

1 Dr. Niraj Rai
 Scientist 'D', BSIP, 53, University Road
 Lucknow

Date

2: Dr. A.K Pokharia
 Scientist 'F' BSIP, 53, University Road
 Lucknow

Date