



Memorandum of Understanding
between
HAZARA UNIVERSITY MANSEHRA
and
CENTRE FOR APPLIED MOLECULAR BIOLOGY
University of the Punjab, Lahore

Article 1. PARTIES

The agreeing parties are Hazara University Mansehra, and Centre for Applied Molecular Biology (CAMB), University of the Punjab, Lahore, Pakistan

Article 2. PURPOSE

CAMB and Hazara University Mansehra agree to establish and conduct mutually agreed upon cooperative and collaborative research in Molecular Biology and Population Genetics

2.1. Research Samples and Analysis Services: CAMB will facilitate in sequencing of the uncharacterized samples of "polycystic ovarian syndrome" (PCOS) patients. This research data will be jointly published by Hazara University and CAMB. CAMB will provide the services of DNA Core Facility for DNA sequencing and genotyping, and Hazara University will provide the reagents and consumables for the analysis of their samples under its NRPU project (10076). The consumables/reagents required for DNA sequencing will include, but not limited to, DNA sequencing kit, polymer for capillary electrophoresis, HI-DI Form amide, ethanol, gloves and reaction tubes/plates etc. Two students of Hazara University would work at CAMB on this research for 4-8 weeks. The nominations from both sides for the authorship of research papers and articles will be decided by mutual consensus of both parties through the focal persons.

2.2. Research projects: Faculty and students of both institutions can initiate joint research projects and/or participate in ongoing projects after obtaining appropriate permission from the competent authorities of both the institution and may compete jointly for funding from local and foreign funding organizations such as HEC etc.

2.3. Awareness programs: Both the institution shall try to accommodate each other's request in promoting their educational and awareness programs if deemed feasible on case to case basis such as workshops, conferences, seminars etc. Prior mutual permission will be sought to present the data in different academic and educational forums and conferences nationally or internationally.

Joint research projects in areas of mutual interest will be initiated with a well-defined scope of participation by each party. The publications originating from joint research projects will be shared as per ethics of the authorship or by the mutual agreement of the competent authorities designated by the parties.

Article 3. Duration, Termination and Modification of the MoU

The duration of this MoU is five (5) years. The parties shall cooperate under this Memorandum of Understanding when it is signed by the official representatives of the institutions involved, which may be terminated by either party with two months written notice of intent to terminate. Any modification/s shall, require the written approval of the



Vice Chancellor Punjab University and the Vice Chancellor Hazara University Mansehra or their designees.

Focal Person:

For **PU**: Dr. Muhammad Farooq Sabar, Incharge DNA Core Facility, CAMB, PU, Lahore.
Cell # 03214423628, Email: farooq.camb@pu.edu.pk

For **HU**: Dr. Saadia Tabassum, Assistant Professor in zoology, HU, Mansehra
Cell # 03349528841, Email: saadia.tabassum81@gmail.com,
saadia.tabassum81@hu.edu.pk

Article 4. Resolution of Disputes

In the event if a dispute arises under this Memorandum of Understanding, participating parties (faculty members) shall make every effort to resolve it themselves through contact persons.

Article 5 Financial Agreements.

This agreement will not give rise to any financial obligation depending on the nature of the project. Moreover, separate financial agreements will be signed for all joint projects/ activities.

Signed by for and on the behalf of
UNIVERSITY OF THE PUNJAB


Prof. Dr. Niaz Ahmad Akhtar
Vice-Chancellor

Date: 20/10/2021

Witnesses

Centre for Applied Molecular Biology, PU

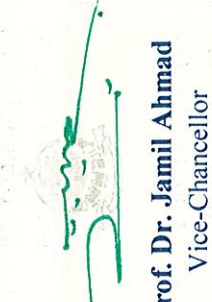

Dr. Muhammad Farooq Sabar
Head, DNA Core Facility

Faculty of Life Sciences, PU


Prof. Dr. Firdaus-e-Bareen
Dean


Dean, Faculty of Life Sciences
University of the Punjab
Quaid-i-Azam Campus, Lahore

Signed by for and on the behalf of
HAZARA UNIVERSITY MANSEHRA


Prof. Dr. Jamil Ahmad
Vice-Chancellor

Date: 26/10/21

Department of Zoology, HU


Dr. Sadia Tabassum
Assistant Professor