



KHWAJA FAREED
UEIT
RAHIM YAR KHAN

MEMORANDUM OF UNDERSTANDING

BETWEEN

**CHINESE ACADEMY OF AGRICULTURAL SCIENCES,
WUHAN, CHINA**

AND

**KHWAJA FAREED UNIVERSITY OF ENGINEERING AND
INFORMATION TECHNOLOGY, RAHIM YAR KHAN
PAKISTAN**

ON ACADEMIC AND RESEARCH COLLABORATION

Memorandum of Understanding (MoU)

BETWEEN

1. **Oil Crops Research Institute**, Chinese Academy of Agricultural Sciences, Wuhan, 430062, China
Academy incorporated under the laws of People's Republic of China
Represented by CAAS, President-Prof. Dr. Huang Fenghong

Hereinafter: "OCRI, CAAS"

AND

2. **Department of Biosciences and Technology, Khwaja Fareed University of Engineering and Information Technology**, Rahim Yar Khan, a Public Sector University established under the Punjab Assembly Act (Act XVI of 2014) whose address is KFUEIT, Abu Dhabi Road, Rahim Yar Khan, Punjab, Pakistan. and shall include its lawful representatives and permitted assigns;

Hereinafter: "KFUEIT"

Both hereinafter referred to as "Party" or collectively as "Parties".

This Memorandum of Understanding (MoU) establishes the terms of cooperation between OCRI, CAAS and KFUEIT.

Purpose:

The Purpose of the cooperation between the Parties is to further develop the technology "Abiotic Stress Tolerance in Oilseed Rape" and "Genome Sequencing of Oilseed Crops" owned by OCRI, CAAS and "Biotic Stress Tolerance in Oilseed Rape" exclusively owned by KFUEIT.

Background:

Means any preexisting information, know-how and intellectual property rights of the Parties needed for the execution of the Purpose. Background provided by a Party remains the sole property of the respective Party, if not explicitly agreed otherwise.

KFUEIT:

The technology "Biotic Stress Tolerance in Oilseed Rape" is based on novel targets for engineering virus-resistance oilseed rape: *in silico* prediction of oilseed rape microRNA targets, all exclusively owned by KFUEIT.

Foreground:

Means all results generated in the context of the cooperation under this MoU after the effective date of this MoU.

Expected Outcome of the Cooperation:

- Joint research projects related to science, engineering, technology and management in the frame of the Purpose of this cooperation.
- Further development of abiotic and biotic stress tolerance, as described under Purpose, in laboratory and/or field studies.
- Innovation and entrepreneurship activities in in the frame of the Purpose of this cooperation.
- Any other areas of co-operation to be mutually agreed upon by the Parties.
- Exchange of academic materials and publications
- Exchange of faculty members for research, lectures and discussion
- Exchange of doctoral researchers and graduate students for study and research
- Co-organization and participation in lectures, seminars and conferences
- Co-operation in administrative issues
- Exchange of non-academic administrative staff for work experience

Roles and Responsibilities:

Parties hereby mutually agree to:

1. Provide open communication to achieve the Aim of this cooperation.

OCRI, CAAS agrees to provide:

1. CAAS will provide proper guidance and skills to research students of KFUIET if needed through online support in the frame of the Purpose of this cooperation.
2. CAAS will provide preexisting information (Background) about abiotic stress tolerance in oilseed rape as described under Purpose.
3. CAAS will provide information about instruments and technology used in development of preexisting knowledge in the frame of the Purpose of this cooperation.

KFUEIT agrees to provide:

1. Regular (at least bimonthly) written updates to CAAS about the progress towards the Purpose of this cooperation.
2. KFUEIT will provide skilled students for field and laboratory work.
3. KFUEIT will provide information about computational technology used in development of preexisting knowledge in the frame of the Purpose of this cooperation.

Costs off Collaboration:

The theme of joint activities, conditions for utilizing the results achieved and arrangements for specific visits, exchanges, and other forms of co-operation will be negotiated separately for each specific case by the parties concerned. It is understood that all financial arrangements between the two institutes will be negotiated individually.

Publications and public disclosure

Parties shall generally be permitted to publish the results (Foreground) of their research in the context of this cooperation. Any publications which contain experimental results and/or intellectual input of both Parties shall include with reasonable scientific standards co-authorships of scientists of both Parties. In order to avoid loss of patent rights as a result of premature public disclosure of patentable information, the Parties will submit, in confidence, any prepublication materials disclosing results evolving from research in the context of cooperation under this MoU at least sixty (60) days prior to planned publication or any public disclosure. One Party shall notify the other Party within thirty (30) days of receipt of such material whether it desires to file patent applications.

Inventions and discoveries

If, according to reasonable scientific standards, employees of both Parties contributed to new inventions and discoveries, these inventions and discoveries shall be jointly owned by the Parties. This shall not affect any ownership rights of preexisting intellectual property rights and know-how (Background). In the case of commercial exploitation of inventions and discoveries CAAS shall take the lead in such endeavors. The Parties shall negotiate, in good faith the conditions for the exercise of such joint ownerships.


Duration and termination of the MoU

This MoU shall commence upon signature by both Parties (effective date) and will remain in effect for 12 month or until a new agreement has been signed between all Parties which explicitly states it replaces or ends this MoU.

Non-disclosure and usage of information

A non-disclosure agreement (NDA) between the Parties is signed alongside this MoU.

Signing

Oil Crop Research Institute, Chinese Academy of Agricultural Sciences, Wuhan Name: Dr. Razaqat Ali Gill Associate Professor Date: 23/11/2020 Signature: Razaqat Ali Gill	Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan Engr. Prof. Dr. Muhammad Suleman Tahir Vice Chancellor Date: 23/11/2020 Signature:  VICE CHANCELLOR Khwaja Fareed University of Engineering & Information Technology Rahim Yar Khan
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