



सत्यमेव जयते

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**Purchased by** : DR DIPANKAR DE  
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**Second Party** : PUNJABI UNIVERSITY PATIALA  
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*Dipankar De*

Professor  
Department of Dermatology  
PGIMER, Chandigarh

## Memorandum of Agreement (MoA)

This Agreement made on \_\_\_\_\_

### **Between**

The Postgraduate Institute of Medical Education and Research (PGIMER) having its premises in Sector 12, Chandigarh (UT) through its authorized Signatory.

### **And**

Punjabi University Patiala, Punjab Assembly established *Punjabi University, Patiala* under the Punjab Act No. 35 of 1961 having its premises at NH 64, next to Urban Estate Phase II, Patiala, Punjab 147002 through its authorized Signatory. Where the Punjabi University, Patiala has engaged in academic and research activities.

Whereas both the above parties, after discussions having signed the Memorandum of Agreement (MoA) which will lay the foundation for cooperation and joint action related to matters of mutual interest and decided to deduce their respective roles jointly here under:

### **1. OBJECTIVES AND CONDITIONS OF MoA:**

- A) Both the parties decided to work closely on the proposed research project entitled, "**CLASSIFICATION OF AUTOIMMUNE BLISTERING SKIN DISEASES USING DEEP NEURAL NETWORK**". This study will be an attempt to enhance the knowledge in the fields of developing artificial intelligence based algorithm for classification of autoimmune blistering skin diseases.
- B) Dr. Dipankar De, Additional Professor, Department of Dermatology, Venereology & Leprology PGIMER, Co-PI; Dr. Sanjeev Handa, Professor and Head, Department of Dermatology, Venereology & Leprology, PGIMER, Chandigarh, Co- Investigator; Dr. Rahul Mahajan, Associate Professor, Department of Dermatology, Venereology & Leprology, PGIMER, Chandigarh, Co- Investigator; Dr. Debajyoti Chatterjee, Assistant professor, Department of Histopathology, PGIMER, Chandigarh, Co- Investigator and Dr. Maninder Singh, Assistant professor, PI from Computer Science Department, Punjabi University Patiala will supervise the above mentioned research project.
- C) The Department of Dermatology, Venereology & Leprology, PGIMER, Chandigarh will provide images of skin lesions of patients with autoimmune bullous diseases. The confidentiality of the images /samples will be protected.
- D) Department of Computer Science, Punjabi University, Patiala will provide the technical expertise for developing deep learning algorithms; analyses and daily research matters related to computational part of the research and provide the access to high performance computing facility relevant for the project.
- E) Both the parties will have academic/commercial interest in this project.
- F) The important research findings arising out of the activities covered under this MoA maybe published in peer reviewed national and International journals. All the participants from the collaboration Institutes will be co-authors in research papers that emanate from the proposed project work. Dr Maninder Singh (PI) and Dr Dipankar De (Co-PI) will be joint corresponding authors whereas the research scholar carrying out the day-to-day work and contributing the most to the research will be the first author in any publication arising out of this study.

*Dipankar De*

Dr. Dipankar De  
Additional Professor  
आयुर्वेद विभाग  
Department of Dermatology  
पे. 12, सेक्टर 12, चण्डीगढ़  
PGIMER, Chandigarh



- G) This study will/will not involve any type of animal models or radioactive material.
- H) Clearance from the respective committees will be obtained as per the need.
- I) This study will/will not deal with treatment issues.
- J) If any IPR develops from the proposed collaborative project, it shall be jointly owned by the PGIMER, Chandigarh and Punjabi University, Patiala. The extent of ownership shall be 50% each between both the institutes.

## 2. AMENDMENT TO THE AGREEMENT

During the project work situations compelling any alternations or modifications of this Agreement shall be operational following mutually discussed and agreed upon in writing.

## 3. INTERPRETATION/ MATTERS NOT PROVIDED HEREIN:

In case of difficulty/ doubts towards the interpretation of the provisions of this Agreement or those matters not provided herein, the collaborating institutes/parties shall resolve such doubts in good faith after consulting with each other.

4. In case the parties are not able to resolve the issue in good faith the same shall be referred to court at Chandigarh with exclusive jurisdiction or court where causes of action arise.

(A) For & On behalf of Punjabi University, Patiala

(Authorized Signatory)

Dean/Director/Vice Chancellor  
Punjabi University, Patiala  
Date:  
Place:

For & On behalf of PGIMER

(Authorized Signatory)

Dean (Research)  
PGIMER, Chandigarh  
Dean/Director  
PGIMER, Chandigarh  
Date:  
Place:

Witness:

1. Name Dr. Maninder Singh

Signature: (PI/CoPI)

2. Name

Asst. Dean Research/Dean Research  
Punjabi University, Patiala

Witness:

2. Name Lipamman de  
Professor  
Department of Dermatology  
PGIMER, Chandigarh

Signature: (PI/CoPI)

2. Name

Signature: (PI/CoPI)