

**MEMORANDUM OF UNDERSTANDING BETWEEN
LUMINOUS BIOSCIENCES, LLC, GAITHERSBURG, MD, USA
AND
GLA UNIVERSITY, MATHURA, UP, INDIA**

In accordance with a desire to promote cooperation in areas of mutual interest for the benefit of both institutions, The Luminous BioSciences, Gaithersburg, USA and GLA University, Mathura (State Private University) hereby enter into the following agreement:

This MOU hereinafter University refers to **Luminous BioSciences LLC**, Gaithersburg, MD USA (registered in MD, USA in 2013) and **GLA University**, Mathura, (established vide F. No. 8- 0/2010 (cpp-1/PU dated 16 November 2010) Government of Uttar Pradesh vide Act No. 21 of 2010 and Recognized by University Grant Commission) and the scope of the MOU will be to do research, develop and market products in the area of biotechnology especially for bovine paratuberculosis but also for other veterinary diseases and generic biotech research related products.

Article 1. Luminous Biosciences, USA and GLA University, Mathura shall engage in cooperation in the fields of research and development Interest within the mandate of the both the Institute and shall develop joint research and marketing proposal in these fields.

Article 2. Joint research and development activities will be established by mutual agreement of both parties. These projects are undertaken to enhance the exchange of scientific knowledge and cultural conditions at the global level, in keeping with the commitment of both parties to international scientific and cultural exchanges.

Article 3. With agreed fields, both parties shall seek to engage in the following types of cooperation subject to future agreements:

- a) Exchange ideas to develop vigenary related diagnostic test kits especially for the early diagnosis of bovine paratuberculosis.
- b) Submit joint research proposal to ICMR, CSIR, DBT (India) and NIH, USDA (USA) for initial funding for basic research and product development.
- c) Luminous BioSciences with transfer technical know-how to GLA University to manufacture products for biotech research.
- d) Any product(s) developed jointly by Luminous BioSciences and GLA University will be marked in India and other Asian countries. The royalty/ income from the sale of these products will be shared equally.

Article 4. Each party will designate individuals with responsibilities for the coordination and implementation of this agreement with approval of competent authority of both Luminous BioSciences and GLA University.

Article 5. Both parties understand that any or all financial agreements will have to be

negotiated separately and will depend on the availability of resources and funds.

Article 6. Both parties agree to exercise their best efforts in securing outside funding for the success of the project.

Article 7. Both parties acknowledge that visit by faculty from one party to the other shall be subject to the availability of funds and shall comply with regulation and policies of the Luminous BioSciences, Gaithersburg, MD and the GLA University, Mathura.

Article 8. This collaboration will be guided by the understanding that the Luminous BioSciences, Gaithersburg, USA and the GLA University, Mathura, India subscribes to the principle of equal opportunity and do not discriminate on the basis of race, sex, age, caste or religion. Both the Institutions shall abide by these principles in the administration of this agreement and neither party shall impose criteria for exchange of scholars or students, which violate principles of non-discrimination.

Article 9. Both parties shall review the status of the agreement at the end of each five-year period to determine any modification whenever necessary. The period of validity of this agreement may be extended by mutual consent.

Article 10. Either party may modify / terminate this agreement with written notification signed by competent authority of the party initiating termination. Such notification must be given at least six months in advance of the effective date of termination.

Intellectual Property Rights

Any IPR issue emanated from joint research under this MOU will be the joint property of the Luminous BioSciences, USA and GLA University, Mathura, India. IPR issues will be patented as joint patent. Benefits emanated from commercialization from developed technology under this MOU will be shared between Luminous BioSciences and GLA University.



Dated:

Mr. Ashok Kumar Singh,
Registrar,
GLA University, Mathura, INDIA

17 Km Stone NH-2, Mathura-Delhi Road
P.O. Chaumuhan, Mathura-281406 (UP), India



Dr. A. K. Gupta
Director
Institute of Applied Sciences
& Humanities
GLA University, Mathura (U.P.)

Dr. Anup Kumar Gupta
Director, Institute of Applied
Sciences & Humanities,
GLA University, Mathura, INDIA



Dated: March 4, 2021

Javed Siddiqi, PhD
Director
Luminous BioSciences, LLC
Gaithersburg, MD USA



Dr. S.V. Singh
Professor & Head, Dept. of Biotechnology
GLA University, Mathura (U.P.), INDIA

Dr. Shoor Vir Singh
HOD, Biotechnology
GLA University, Mathura, INDIA