

**Collaborative Research Agreement between  
Bangladesh Reference Institute for Chemical Measurements BRiCM  
And**

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This Agreement is made between ----- and  
**Bangladesh Reference Institute for Chemical Measurements (BRiCM).**

**WHEREAS:**

The Parties desire to collaborate and strengthen research cooperation based on the principles of mutual benefits. The areas and scopes of cooperation include following fields:

- a. Establishment of method for quantitation of metabolites from biological fluids including organic acids from urine or amino acids and acylcarnitines from blood specimens using gas chromatography mass spectrometry (GC-MS) or liquid chromatography mass spectrometry (LC-MS/MS) based techniques.
- b. Method validation for quantitation of metabolites for biological fluids using GC-MS or LC-MS/MS and development of standard operating procedure (SOP) for the aforementioned methods.
- c. Analysis of metabolites for diagnosis of IEM using blood, urine and other biological specimens.

Both parties will undertake following activities for joint collaborative research and/or projects for mutual interest:

1. Jointly undertake research and developments (R&D) to attain the objectives in the specified field as above.
2. Facilitating other party in attaining the objectives by allowing access to designated staff of other party for using laboratories as required for the purpose of conducting research on specified fields for the duration of this collaboration Agreement.
3. Explore the possibility to exchange relevant scientific information, technical persons, and scientists for designated project implementation. and
4. Strengthen the personnel training together; establish interactive communication system for conducting scholarly research to present, print, publish, and circulated papers, periodicals, books, publications of the same and other literary works that would be beneficial to the people of Bangladesh and other country.
5. Jointly organize Inter-laboratory comparisons for other diagnostic laboratories.

Now, therefore, BRiCM and ----- agree with the terms and conditions defined in the provision attached to this Agreement, for conditions of the Research set out in the Research Particulars as follows:

IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed in duplicate originals by their duly authorized representatives. BRiCM and ----- have prepared two copies of this Agreement, and BRiCM and ----- shall each retain one copy.

**For and on behalf of BRiCM**  
**Bangladesh Reference Institute for Chemical Measurements (BRiCM)**

**For and on behalf of -----**  
-----

**Signature:**

**Signature:**

**Name: Pranab Karmaker**

**Name: -----**

**Designation: Senior Scientific Officer**  
Bangladesh Reference Institute for  
Chemical Measurements (BRiCM)

**Designation: -----**

**In presence of :**

**In presence of :**

**1) Name : Md. Moniruzzaman**  
**Title : Senior Scientific Officer**  
Bangladesh Reference Institute for  
Chemical Measurements (BRiCM)

**Name : -----**  
**Title : -----**  
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**2) Name : Fatema Akter**  
**Scientific Officer**  
**Title :** Bangladesh Reference Institute for  
Chemical Measurements (BRiCM)

**Name : -----**  
**Title : -----**  
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### **PROVISION**

#### **Article-1. Definition**

For the purpose of this Agreement, the following terms are defined as follows:

- (1) "Research Result" means any technical result acquired based on the Research carried out under BRiCM and ----- jointly including, but not limited to, any invention, idea, design, copyrightable work and know-how which are identified as the result in the final report which shall be prepared pursuant to Article 4 and relate to the purpose of the Collaborative Research.

- (2) "Intellectual Property Right" means and includes the followings:
- (a) Patent right,
  - (b) The right to receive patent defined in the Patent Law,
  - (c) The copyrightable work of programs defined in the Copyright Law, and copyright in copyrightable work of data base (hereinafter referred to as "Programs")
  - (d) Any technical information which can be kept in confidence, and has proprietary value (hereinafter as "process").

## **Article- 2. Mutual Understanding**

### **i. Join Collaboration Research Program**

BRiCM will take research initiatives with ----- on the problems of method establishment for quantitation of metabolites from biological fluids including organic acids from urine or amino acids and acylcarnitines from blood specimens using GC-MS or LC-MS/MS based techniques. For a particular project, a principal investigator will be selected from the BRiCM and both parties will select coordinators to coordinate the research projects. During the research period either or both parties may find it advantageous to modify the research period and topic. Any modifications will be documented and formalized and will become effective only if signed by an authorized representative of both parties to this Agreement.

### **ii. Funding**

To implement the project (**article 2.i**), ----- will provide the necessary standards and reagents required for the specimen processing and analysis and BRiCM will bear the remaining cost for other consumables including sample vials, carrier gas, solvents, operation and maintenance cost for the instrument.

### **iii. Obligations**

BRiCM will jointly establish the method for diagnosis of IEM using GC-MS or LC-MS/MS by providing instrument and related accessories including instruments such as nitrogen drier, centrifuge, vortex and other minor instruments required for sample preparation. ----- will provide all necessary standards, columns and reagents required for specimen preparation and analysis. In addition, ----- will provide all patients specimens required for method establishment and validation.

## **Article-3. Completion of research report**

BRiCM & ----- will jointly submit a final research report within 30 days after the completion of the joint research project

## **Article-4. Intellectual Property Right**

In case any researcher conceives any Invention in conjunction with the Sponsored Research, BRiCM shall receive ownership and file the application of the Intellectual Property Right and immediately inform -----.

## **Article-5. Exchange of Information**

BRiCM and ----- will mutually exchange or disclose to the other party any information and material which shall be necessary for the execution of the research, except those information and

materials with any confidentiality obligation incurred under a separate contract with any party other than ----- or BRiCM.

**Article-6. Obligation to Keep the Contents of Agreement in Confidence**

BRiCM and ----- shall each assume the confidentiality obligation with respect to the terms and conditions stated in this Agreement, and, unless otherwise obligated under the applicable law, neither of them shall disclose nor leak the same to any third party.

**Article-7. Publication**

Subject to the terms of the arrangement set out in this Memorandum of Understanding, ----- hereby grants BRiCM a licence to publish for scholarly and educational purposes the information collected during the course of the research program. Both institutions will include authors where applicable in publications.

----- will ensure acknowledging BRiCM's contribution in case of scientific publication by providing co-authorship.

**Article-8. Public Release of Research Result**

The Research Result shall in principle be publicly released. BRiCM and ----- may disclose, announce or publicly release the Research Result by complying with the confidentiality obligation provided in Article 5.

**Article -9. Liability for Damages**

BRiCM and ----- shall not be liable to each other for any damages suffered due to any event provided in the preceding Article, except due to any willful misconduct or gross negligence on the part of the Researcher whom it allowed to participate.

**Article-10. Agreement Tenure**

The present agreement will be of 05(Five) years duration, starting from the date of signature by the both parties. Any modification of the agreement, if required, shall be done in written approval by both parties. The agreement however could be renewed, subject to the written approval of both parties.

**Article-11. Termination**

Either party may terminate this Agreement upon ninety (90) days written notice.

**Article-12. Discussion**

When it is necessary to provide for any matter which is not expressly provided in this Agreement, the determination shall be made through discussion between BRiCM and -----.

**Article-13. Dispute Settlement**

Any dispute relating to this Agreement shall be settled by good faith negotiation between the parties, if not solved, may be referred to next higher authorities.