



BUKTI KONTRAK RISET TINGKAT INTERNASIONAL PUSAT STUDI BIOFARMACA TROPIKA LPPM-IPB

UMCMTA18-015

Research Material Transfer Agreement (MTA)
Concerning the Joint Research Activities between
Bogor Agricultural University (IPB), INDONESIA and University of Missouri (MU), USA

Bogor Agricultural University (IPB), for the purposes of this agreement acting on behalf of the Republic of Indonesia,

Institution : Bogor Agricultural University/Institut Pertanian Bogor
Address : Kampus IPB Dramaga, Jalan Raya Dramaga, Bogor 16680, Jawa Barat, Indonesia

Provider Department and Scientist : Tropical Biopharmaca Research Center and drh. Sulistyani, M.Sc., Ph.D.
(hereinafter referred to as "Provider"),

and the Recipient

Institution : The Curators of the University of Missouri
Address : Office of Technology Management and Industry Relations, 1601 S. Providence Rd., MIC Suite 124, Columbia, MO 65211 USA

Recipient Department and Scientist : Bond Life Sciences Center, University of Missouri (MU) and Professor Mark Hannink Ph.D.

(hereinafter referred to as "Recipient")

The Parties wish to define the modalities of transfer and use of Research Material as part of the Joint collaborative research and in compliance with the provisions of the Joint Collaborative Agreement concerning "The Modulation of Oxidative Stress-Induced Signaling Pathway by Natural Antioxidant Extracts of Jati Belanda (*Guazuma ulmifolia* Lam.) and Salam (*Syzigium polyanthum* (Wight)Walp) Leaves in the Therapy of Cardiovascular Disease"; Appendix 1 till 4 form an integral part of this MTA.
In response to the Recipient's request for the above-identified Research Material from the Provider, the Recipient agrees to the following terms in consideration of receipt of the Research Material.

1. Research Material embraced by this agreement are all samples from the field/market, especially but not exclusively extracts of biological materials and soil samples (e.g. DNA extracts) or the samples themselves.

The Provider will provide the following Research Material to the Recipient: crude flavonoid leaf extracts of *Guazuma ulmifolia* Lam. and *Syzigium polyanthum* (Wight)Walp. and their fractions

The Research Material will be used for: determination of phytochemical identification and their potency in modulation of antioxidant signaling pathway.

To the extent necessary, the Material will be provided with accompanying know-how or data by the Provider.

For the sake necessary to enable Recipient to take the appropriate steps with undue delay, however to compliance with Article 9 of this MTA.

12. Any disputes arising from and related to this Agreement shall be settled amicably

For the Provider		For the Recipient	
Name	Prof. Dr. Anas M. Fauzi	Name	Chris Ferlie
Position	Vice Rector for Research and Collaboration, IPB	Position	Director, OTMII
Date	Agust 5, 2017	Date	July 31, 2017
Signature		Signature	
Providing Scientist		Receiving Scientist	
Name	Dr. Sulistyani, M.Sc., Ph.D.	Name	Dr. Mark Hannink, Ph.D.
Date	June 2017	Date	June 14, 2017
Signature		Signature	

MEMORANDUM (LETTER) OF AGREEMENT between

INSTITUTE OF RESEARCH AND COMMUNITY SERVICES

BOGOR AGRICULTURAL UNIVERSITY

c.q. TROPICAL BIOFARMACA RESEARCH CENTER

and

GIFU UNIVERSITY, GIFU, JAPAN

Concerning

Academic and Research Collaboration in the Medicinal Plant (Biopharmaca) & Higher Education Partnership

Institute of Research and Community Services c.q. Tropical Biopharmaca Research Center, Bogor Agricultural University (hereinafter referred to as IPB) and Gifu University together hereinafter referred to as the Parties;

Desiring to strengthen academic and scientific research cooperation based on the principle of mutual benefit and to develop research projects from this cooperation in IPB and Gifu University.

Pursuant to the prevailing laws and regulations in their respective countries as well as their respective governments' procedures and policies on international technical cooperation;

Have agreed as follows:

Article 1 Objective

The objective of the academic and research cooperation under this Letter of Agreement (hereinafter referred to as LoA) is to promote mutual academic research cooperation and develop the scientific capabilities of the two Parties on the field of Medicinal Plant (Biopharmaca) & Higher Education Partnership

Article 2 Scope of Activity

The activities to be conducted in relation to joint academic research program mentioned in Th Article 1 shall include:

- (1) Exchange of researchers and graduate students in the field of medicinal plant (Biopharmaca). The number of researchers or graduate students to be exchanged and other related issues will be determined by mutual agreement between both parties when necessary on a case-by-case basis.
- (2) Exchange of scientific materials, publications, and information.
- (3) Joint scientific meetings for research.
- (4) Fund raising for related activities from public and private sources.
- (5) Joint research and development of antioxidant, anti-inflammatory, anti-oral diseases, anti-melanogenesis, and anti-obesity.
- (6) Other activities mutually agreed upon by the Parties.

2. The MoA shall be effective on the date of its signing and be valid for a period of 5 (five) years and can be extended or renewed in writing by mutual consent of the parties, unless one of the Parties notifies in writing of its intention to terminate this MoA at least 6 (six) months in advance

The termination of this MoA shall not prejudice the completion of any on-going programs that have been agreed upon by the Parties.

IN WITNESS THEREOF, the undersigned, the Authorized Representatives, have signed this MoA

Signed at... Gifu & Bogor on 20 September 2017, in two (2) original texts in the English language, both texts being equally authentic.

FOR
GIFU UNIVERSITY
United Graduate School of
Agricultural Sciences

Prof. Masateru Senge
Dean

FOR
BOGOR AGRICULTURAL UNIVERSITY
Institute of Research and Community Services

Dr. Ir. Prastowo, M.Eng
Director

Witness

Dr. Fumiaki Suzuki
Vice President for International affair
Gifu University

Prof. Dr. Anas M. Fauzi
Vice Rector for Research and
Collaboration, IPB



Research Material Transfer Agreement (MTA)

Concerning the Joint Research Activities between Bogor Agricultural University (IPB), INDONESIA and Gifu University (GU), Japan

Bogor Agricultural University (IPB), for the purposes of this agreement acting on behalf of the Republic of Indonesia,

Institution : Bogor Agricultural University/Institut Pertanian Bogor
Address : Kampus IPB Dramaga, Jalan Raya Dramaga, Bogor 16680, Jawa Barat, Indonesia

Provider Department and Scientist : Tropical Biopharmaca Research Center and Dr. Irmanida Batubara (hereinafter referred to as "Provider"),

and the Recipient

Institution : Gifu University (GU)
Address : 1-1 Yanagido, Gifu, 501-1193, Japan

Recipient Department and Scientist : The Laboratory of Natural Product Chemistry, Gifu University (GU) and Professor Dr. Tohru Mitsunaga

(hereinafter referred to as "Recipient")

The Parties wish to define the modalities of transfer and use of Research Material as part of the Joint collaborative research and in compliance with the provisions of the Joint Collaborative Agreement concerning "Academic and Research Collaboration in the Medicinal Plant (Biopharmaca) & Higher Education Partnership"; Appendix 1 till 4 form an integral part of this MTA.

In response to the Recipient's request for the above-identified Research Material from the Provider, the Recipient agrees to the following terms in consideration of receipt of the Research Material.

- 1. Research Material embraced by this agreement are all samples from the field/market, especially but not exclusively extracts of biological materials and soil samples (e.g. DNA extracts) or the samples themselves.

The Provider will provide the following Research Material to the Recipient:

- Ethanolic extract of *Daemonorops draco* Blume fruits residue
- Ethanolic extract of *Murraya paniculata* leaves
- Ethanolic extract of *Sonchus arvensis* leaves

The Research Material will be used for: determination of their potency in antioxidant, anti-inflammatory, anti-oral diseases, anti-melanogenesis, and antiobesity

To the extent necessary, the Material will be provided with accompanying know-how or data by the Provider.

For the avoidance of doubt, and in case the results obtained under this MTA could give rise to industrial intellectual property rights, the Parties agree to treat such results confidential for the time necessary to enable Recipient to take the appropriate steps with undue delay, however in compliance with Article 9 of this MTA.

- 12. This MTA shall be governed by the laws of Indonesia. If dispute cannot be settled by amicable settlement within ninety (90) days after the start of such discussion, dispute shall be resolved at court Bogor state (Pengadilan Negeri Bogor).

For the Provider:

Name : Prof. Dr. Anas M. Fauzi

Position : Vice Rector for Research and Collaboration, IPB

Date : Sept 11, 2017

Signature : [Signature]

Providing Scientist:

Name : Dr. Irmanida Batubara

Date : August 2017

Signature : [Signature]

For the Recipient:

Name : Dr Fumiaki Suzuki

Position : Vice Rector for International affair

Date : Aug. 28, 2017

Signature : [Signature]

Receiving Scientist:

Name : Prof. Tohru Mitsunaga

Date : August 2017

Signature : [Signature]

Research Material Transfer Agreement (MTA)

Concerning the Joint Research Activities between Bogor Agricultural University (IPB), INDONESIA and Gifu University, JAPAN

Bogor Agricultural University (IPB), for the purposes of this agreement acting on behalf of the Republic of Indonesia,

Institution : Bogor Agricultural University/Institut Pertanian Bogor
Address : Kampus IPB Dramaga, Jalan Raya Dramaga, Bogor 16680, Jawa Barat, Indonesia

Provider Department and Scientist : Tropical Biopharmaca Research Center and Dr. Irmanida Batubara, S.Si, M.Si. (here in after referred to as "Provider"),

and the Recipient

Institution : Gifu University
Address : 1-1 Yanagido, Gifu 501-1193, Japan

Recipient Department and Scientist : Faculty of Applied Biological Science and Dr. Emiko Yanase

(here in after referred to as "Recipient")

The Parties wish to define the modalities of transfer and use of Research Material as part of the Joint collaborative research and in compliance with the provisions of the Joint Collaborative Agreement concerning "Research Collaboration in the Bioactive Compound of Indonesia's Native Bean"; Appendix 1 till 4 form an integral part of this MTA.

In response to the Recipient's request for the above-identified Research Material from the Provider, the Recipient agrees to the following terms in consideration of receipt of the Research Material.

make available the final report to the libraries of universities (IPB) and to LIPI Biodiversity Research Centre Cibinong as the national reference collection for Biodiversity in Indonesia. For the avoidance of doubt, the Parties agree that the Recipient shall at least submit a digital pdf-copy of the said final report to the Provider and Recipient hereby agrees that the Provider may disseminate the said final report as required according to this clause and in accordance with applicable Intellectual Property/Copyright Rules.

For the avoidance of doubt, and in case the results obtained under this MTA could give rise to industrial intellectual property rights, the Parties agree to treat such results confidential for the time necessary to enable Recipient to take the appropriate steps with undue delay, however in compliance with Article 9 of this MTA.

- 12. This MTA shall be governed by the laws of Indonesia. If dispute cannot be settled by amicable settlement within ninety (90) days after the start of such discussion, dispute shall be resolved at court Bogor state (Pengadilan Negeri Bogor).

For the Provider:

Name : Prof. Dr. Anas M. Fauzi

Position : Vice Rector for Research and Collaboration, IPB

Date :

Signature : [Signature]

Providing Scientist:

Name : Dr. Irmanida Batubara

Date : 18 October 2017

Signature : [Signature]

For the Recipient:

Name : Masateru Senge

Position : Dean of United Graduate School Of Agricultural Science Gifu University

Date :

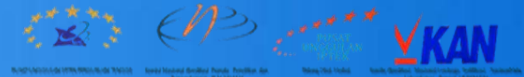
Signature : [Signature]

Receiving Scientist:

Name : Dr. Emiko Yanase

Date : 1 November 2017

Signature : [Signature]



MEMORANDUM (LETTER) OF AGREEMENT
between
INSTITUTE OF RESEARCH AND COMMUNITY SERVICES
BOGOR AGRICULTURAL UNIVERSITY
c.q. **TROPICAL BIOPHARMACA RESEARCH CENTER**
and
TECHNISCHE UNIVERSITÄT BRAUNSCHWEIG, GERMANY

Concerning
Research Collaboration in the Medicinal Plant (Biopharmaca)

Institute of Research and Community Services c.q. Tropical Biopharmaca Research Center, Bogor Agricultural University (hereinafter referred to as IPB) and Technische Universität Braunschweig together hereinafter referred to as the Parties;

Desiring to strengthen scientific research cooperation based on the principle of mutual benefit and to develop research projects from this cooperation in IPB and Technische Universität Braunschweig.

Pursuant to the discussion during the short-term visit by a researcher from IPB to Technische Universität Braunschweig from the institute of food chemistry;

Pursuant to the prevailing laws and regulations in their respective countries as well as their respective governments' procedures and policies on international technical cooperation;

Pursuant to the funding of Technische Universität by AIF for the project 18130 N and the contribution of PPB to the research activities of this project;

Have agreed as follows:

Article 1
Objective

The objective of the research cooperation under this Letter of Agreement (hereinafter referred to as LoA) is to promote mutual research cooperation and develop the scientific capabilities of the two Parties on the field of Medicinal Plant (Biopharmaca).

Article 2
Scope of Activity

The activities to be conducted in relation to joint research program mentioned in Article 1 shall include:

Model test with nutmeg plants

- (1) Model test I : Uptake of biphemyl by the roots
- (2) Model test II : Uptake of biphemyl by the leaves
- (3) Model test III: Uptake of biphemyl by the fruit

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Article 8
Amendments, Duration, and Termination

1. Any amendment to this LoA can only be made in writing by mutual consent of the Parties.
2. The LoA shall be effective on the date of its signing and be valid for a period of 2 (two) years and can be extended or renewed in writing by mutual consent of the parties, unless one of the Parties notifies in writing of its intention to terminate this LoA at least 6 (six) months in advance

The termination of this LoA shall not prejudice the completion of any on-going programs that have been agreed upon by the Parties.

IN WITNESS THEREOF, the undersigned, the Authorized Representatives, have signed this LoA

Signed in two (2) original texts in the English language, both texts being equally authentic.

FOR
TECHNISCHE UNIVERSITÄT
BRAUNSCHWEIG

FOR
BOGOR AGRICULTURAL UNIVERSITY
Institute of Research and Community Services


Prof. Dr. Peter Winterhalter
Director of Institute of Food Chemistry


Dr. Ir. Prastowo, M.Eng
Director

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