



Berbagi pengalaman mendapatkan program
**Bilateral Exchange Program DGHE-
JSPS Joint Research Projects**

Bilateral Exchange Program
DGHE-JSPS Joint Research Project
1-4-2010 to 31-3-2012

(JSPS/AP/109596 November 20, 2009)

IPB - The University of Tokyo, Nihon University, Kobe University

Aris Purwanto
Departemen Teknik Mesin dan Biosistem,
Fakultas Teknologi Pertanian IPB



DIREKTORAT JENDERAL PENDIDIKAN TINGGI
KEMENTERIAN PENDIDIKAN,
KEBUDAYAAN, RISET, DAN TEKNOLOGI



JSPS

JAPAN SOCIETY
FOR THE PROMOTION OF SCIENCE

- Meningkatkan pengalaman dan kemampuan riset sejajar dengan peneliti mitra di Jepang
- Memperluas networking dengan mitra peneliti di Jepang serta dengan dunia usaha dan/atau dunia industri;
- Berkesempatan memperoleh hibah penelitian dan publikasi Internasional bersama mitra peneliti Jepang



DIREKTORAT JENDERAL PENDIDIKAN TINGGI
KEMENTERIAN PENDIDIKAN,
KEBUDAYAAN, RISET, DAN TEKNOLOGI



JSPS

JAPAN SOCIETY
FOR THE PROMOTION OF SCIENCE

- Berkesempatan berkunjung ke laboratorium mitra riset di Jepang
- Melakukan diskusi riset dengan mitra peneliti di Jepang dan berpeluang memperluas networking dengan mitra peneliti Jepang lainnya
- Berkesempatan mengundang partner peneliti Jepang ke Indonesia (dapat dimanfaatkan sebagai dosen tamu bagi mahasiswa S1, S2, S3)

Apa yang harus disiapkan?

- Melakukan peninjauan mitra peneliti/professor di Universitas Jepang (tidak harus alumni Jepang) – perlu waktu untuk proses peninjauan
- Melakukan komunikasi via email dengan mitra peneliti di Jepang
- Mendiskusikan tema riset dengan mitra peneliti di Jepang
 - *Tidak ada Batasan tema riset*



Mempersiapkan proposal

- pelaksanaan kegiatan harus dilakukan bersama antara tim Indonesia dan tim Jepang (berbasis equality)
- proposal kegiatan harus mempunyai nilai ilmiah yang tinggi dalam bidang/area yang terus berkembang, sehingga berpotensi untuk menghasilkan terobosan baru dalam konsep, pengetahuan, atau metodologi di bidang/area tersebut
- proposal kegiatan harus menjelaskan perlunya (necessity) dan pentingnya (significance) pelaksanaan kegiatan bersama-sama dengan ilmuwan/pakar /dosen dari Jepang

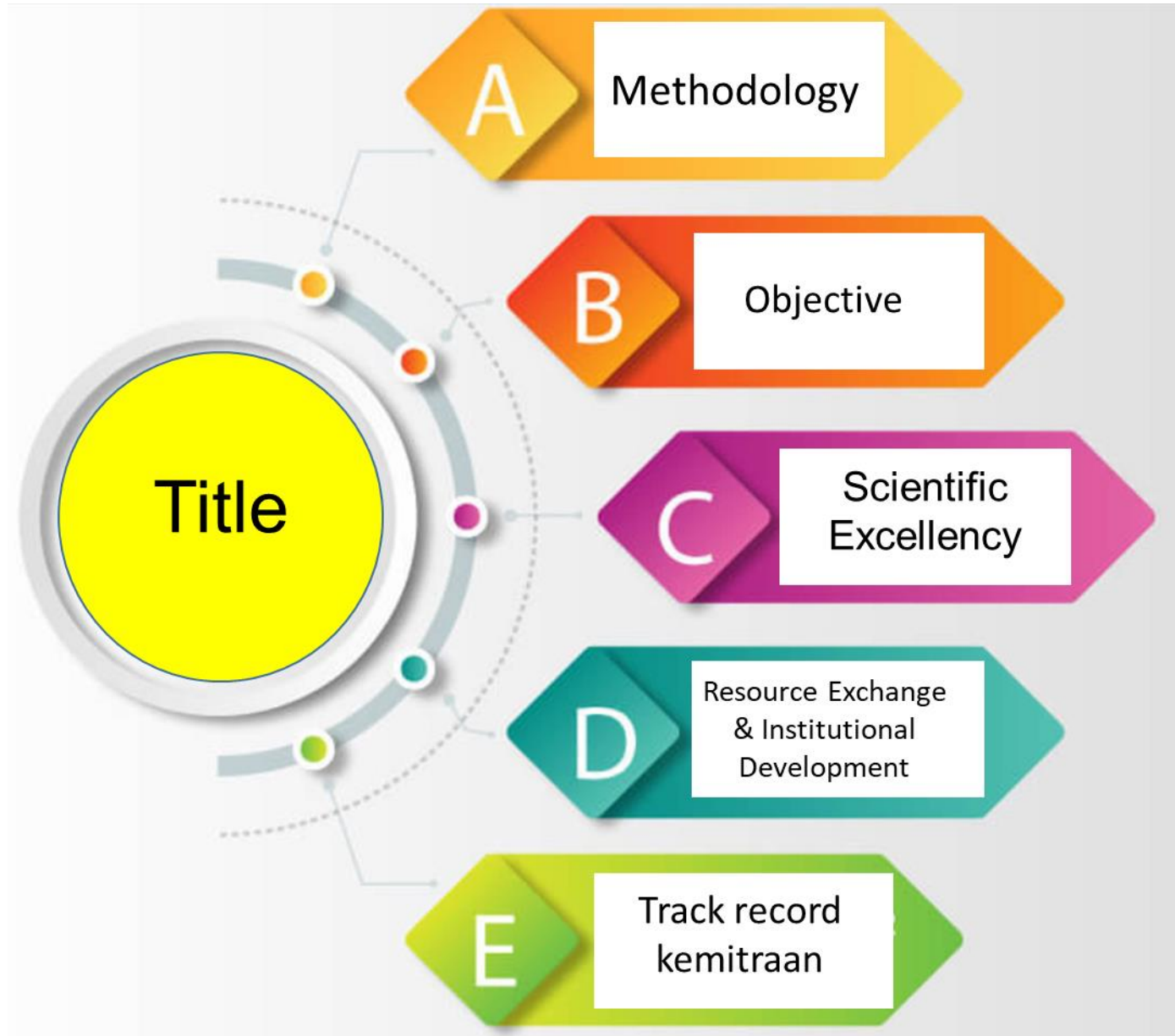


Mempersiapkan proposal

- proposal kegiatan juga harus melibatkan dosen muda dalam setiap kegiatan (sebagai anggota tim), sehingga dapat meningkatkan kompetensi dosen muda dalam meneliti dan membangun jejaring internasional
- proposal kegiatan yang berkontribusi besar pada kehidupan masyarakat (termasuk pelestarian dan pengembangan budaya, perbaikan kualitas hidup masyarakat, dan penyelesaian terhadap persoalan-persoalan yang dihadapi masyarakat modern) akan mendapat perhatian khusus.



Mempersiapkan proposal





Submit proposal

Submit proposal dan proses seleksi?

**Peneliti Indonesia -> Submit ke
DGHE**

**Peneliti Jepang -> Submit ke
JSPS**



Submit proposal

Application for Indonesian researcher

PROPOSAL FOR JSPS-DGHE JOINT RESEARCH PROJECT for FY 2010

For Indonesian Researchers

Proposal for JSPS-DGHE Joint Research Project for FY2010

Research Field	Natural Sciences
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Date 7 September, 2009

Japanese Principal Researcher

Name	Yoshio Makino
Affiliation & Position	Laboratory of Bioprocess Engineering, Graduate School of Agricultural and Life Sciences, The University of Tokyo Associate Professor
Office Address	Yayoi 1-1-1, Bunkyo-ku, Tokyo 113-8657 Japan Tel: +81-3-5841-5361 Fax: +81-3-5841-8174 E-mail: amakino@mail.ecc.u-tokyo.ac.jp

Title of Research Project	Studies on long-term storage of tropical fruits by cold method combined with Near-Infrared spectroscopy
Duration of Project	From April 2010 to March 2013 (36 months)
Number of Participants (Excluding Principal Researchers)	(Japanese Side 3 Indonesian Side 2) Total Number 5

Indonesian Principal Researcher

Name	Dr. Yohanes Aris Purwanto
Position & Affiliation	Lecturer Department of Agricultural Engineering, Faculty of Agricultural Engineering and Technology, Bogor Agricultural University (IPB)
Office Address (City)	Gedung Fateta Lt 2, Kampus IPB Darmaga, Bogor, Indonesia PO Box 220 Bogor, Indonesia 16002 Telp./Fax: +62-251-8623026

Members of Research Team on Japanese Side

Name	Position & Affiliation	Degree & Specialty
1. Seichi Oshita	Professor, Lab. of Bioprocess Engineering, Graduate School of Agricultural and Life Sciences, The University of Tokyo	Dr - Post Harvest Technology
2. Yoshinori Kawagoe	Assistant Professor, Lab. of Bioprocess Engineering, Graduate School of Agricultural and Life Sciences, The University of Tokyo	M. Agr - Post Harvest Technology
3. Kuroki Shimichiro	Assistant Professor, Lab. Agricultural, Kobe University	Dr - Post Harvest Technology

Members of Research Team on Indonesian Side

Name	Position & Affiliation	Degree & Specialty
1. Sutrisno	Lecturer, Department of Agricultural Engineering, Faculty of Agricultural Engineering and Technology, Bogor Agricultural University (IPB)	Dr - Post Harvest Technology
2. Usman Ahmad	Lecturer, Department of Agricultural Engineering, Faculty of Agricultural Engineering and Technology, Bogor Agricultural University (IPB)	Dr - Post Harvest Technology

Note: Please keep the length of your descriptions to within the prescribed blocks(s). With regard to page 6 only, you may use additional pages for describing each member's educational background and research achievements.

Application for Japanese researcher

平成22年度 (2010年度) 独立行政法人日本学術振興会 インドネシアとの共同研究(DGHE)

申請書

申請番号 10038011-00001

国別	インドネシア	対応機関コード	DGHE
分科細目コード	6502		
分科	農業工学		
細目	農業環境工学		
領域	農学		
総合領域・複合新領域の場合			
対象分野	自然科学		

2009年8月25日

【日本側共同研究代表者】

氏名	(漢字等)(姓) 牧野 (名) 義雄 (ローマ字)(姓) MAKINO (名) Yoshio * (フリガナ)(姓) マキノ (名) ヨシオ
生年月日	* 1963年6月10日 (平成 22年度4月1日現在 満 46 才)
所属機関名	(コード) 0172 (和文) 東京大学 (英文) The University of Tokyo
部署名	(コード) 735 (和文) 農学生命科学 (英文) Graduate School of Agricultural and Life Sciences
部署種別	研究科
職名	(和文) * 准教授 (英文) * Associate Professor
最終学位取得年月	* 博士(農学) * 1997年7月
所属機関 部署所在地	〒* 113-8657 (住所) * 東京都文京区弥生1-1-1 電話番号: * 03-5841-5361 Fax番号: * 03-5841-8174 Email: amakino@mail.ecc.u-tokyo.ac.jp
その他連絡先 (所属機関や連絡がとれない場合のみ記入)	電話番号: Fax番号: Email:

研究課題名	(和文: 桁数は40字以内。化学式、数式は使用不可。) 近赤外分光分析と低温貯蔵を併用した熱帯果実の腐敗率抑制保存法に関する研究 * (英文) Studies on reduction of loss of tropical fruits by cold storage combined with near-infrared spectroscopy *
期間	* 2010年4月1日~2013年3月31日 (3年)
参加者人数 (代表者は除く)	(日本側参加者 * 3名) (相手国側参加者 * 2名) 5名

【相手国側共同研究代表者】

氏名	(英文) * (ファミリーネーム) Purwanto (ファーストネーム) Yohanes (ミドルネーム) Aris
所属機関名	(和文) * ボゴール農科大学 (英文) * Bogor Agricultural University
部署名	(和文) * 農業工学部 (英文) * Faculty of Agricultural Technology
職名	(和文) * 講師 (英文) * Lecturer
所在地 (都道府県)	ボゴール



Kiat melaksanakan Bilateral Exchange Program JSPS-DGHE Joint Research Project

- Tidak mendapatkan dana penelitian
- Harus aktif mencari dana penelitian
- Menyertakan dosen junior dan mahasiswa (S1, S2 dan S3 dalam pelaksanaan penelitian



Kiat melaksanakan Bilateral Exchange Program JSPS-DGHE Joint Research Project

- **Progress report tiap tahun selama 3 tahun (report kegiatan riset dan pelaporan penggunaan dana pendampingan)**
- **Progress publikasi**



Bilateral Exchange Program
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Studies on Long-term Storage of Tropical Fruits by Cold Method Combined with Near-Infrared Spectroscopy



**Bogor Agricultural University
The University of Tokyo
Nihon University
Kobe University**





Melaksanakan kegiatan

Tim Peneliti Bilateral Exchange DGHE-JSPS Joint Research Program (2010-2013)



Y Aris Purwanto
IPB



Sutrisno
IPB



Usman Ahmad
IPB



Seiichi Oshita
University of Tokyo



Yoshio Makino
University of Tokyo



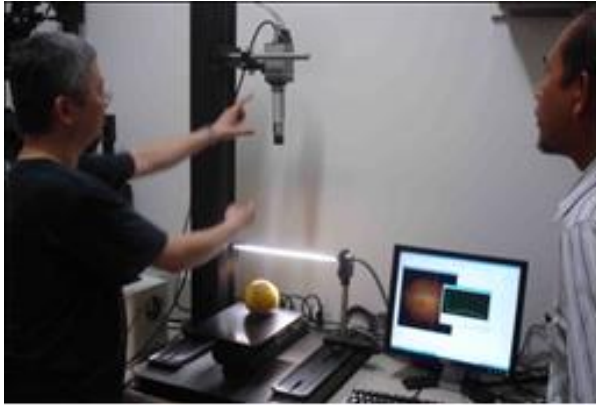
Yoshinori Kawagoe
Nihon University



Shinichiro Kuroki
Kobe University

Melaksanakan kegiatan

Bilateral Exchange DGHE-JSPS Joint Research Program : Tahun 1 (2010)



Lab University of Tokyo



Ota Market Tokyo



JA Okinawa



Farmer market Okinawa

Kunjungan Peneliti Indonesia ke Jepang



IPB



Packing house Ciawi



Pasar Kramat Jati Jakarta

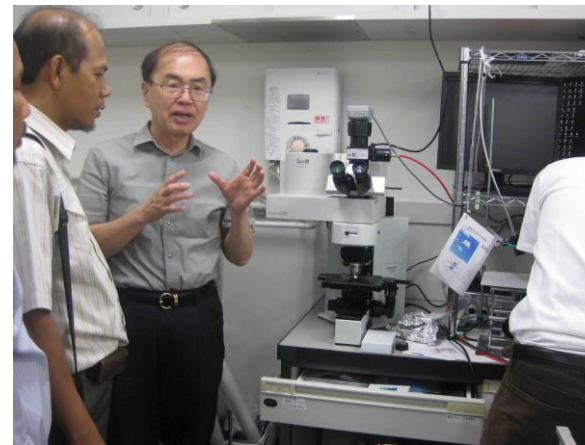
Kunjungan Peneliti Jepang ke Indonesia

Melaksanakan kegiatan

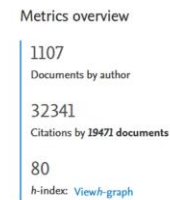
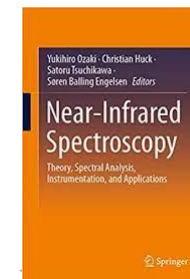
Bilateral Exchange DGHE-JSPS Joint Research Program : Tahun 2 (2011)



Prof. N. Kondo Kyoto University

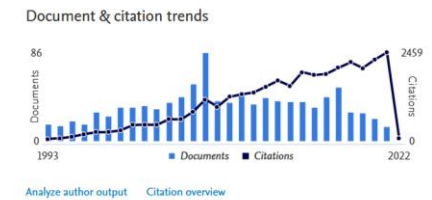


Prof. Y. Ozaki Kwansei Gakuin University



Ozaki, Yukihiro

Kwansei Gakuin University, Nishinomiya, Japan
55499856000



Kunjungan Peneliti Indonesia ke Jepang

Melaksanakan kegiatan

Bilateral Exchange DGHE-JSPS Joint Research Program : Tahun 2 (2011)



IPB



BP Pascapanen Bogor



Universitas Udayana

Kunjungan Peneliti Jepang ke Indonesia

Melaksanakan kegiatan

Bilateral Exchange DGHE-JSPS Joint Research Program : Tahun 2 (2012)



NFRI



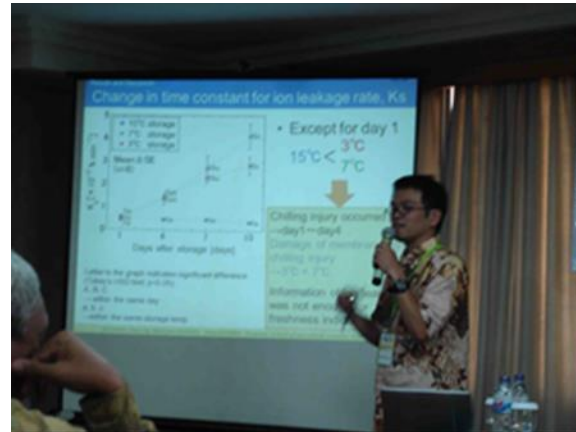
Tsukuba University



Riken BRAIN Institute



IPB



International symposium Asia Pacific Symposium 2012 di Yogyakarta



International Networking

- 1. MoU IPB and Research Institute of Humanity and Nature, Kyoto Japan (signed) – Joint research**
- 2. MoU IPB and Kobe University Japan (signed) – academic activities**
- 3. MoU IPB and Marche Polytechnic University Italy – Academic activities**
- 4. UNIDO (The United Nations Industrial Development Organization)**
- 5. FAO – Research Activities**
- 6. JSPS Foreign Research Fellow (Dr Usman Ahmad – Kyoto University) (May 2012-February 2013)**
- 7. Osaka Gas Foundation**
- 8. International Journal Reviewer (ACS, CIGR, Journal of Forestry)**



1. Hibah Terapan Unggulan PT
2. Hibah Terapan Nasional
3. Rispro Invitasi 4.0
4. Rispro Invitasi
5. Riset Kerjasama Balai Pascapanen Kementan
6. Kedaireka

Impact dan manfaat

Penelitian Dasar Unggulan Perguruan Tinggi (2021-2023)

Rispro Invitasi LPDP (2020-2022)

Penelitian Dasar (2017-2019)

Penelitian Kerja Sama Luar Negeri dan Publikasi Ilmiah (2015-2017)

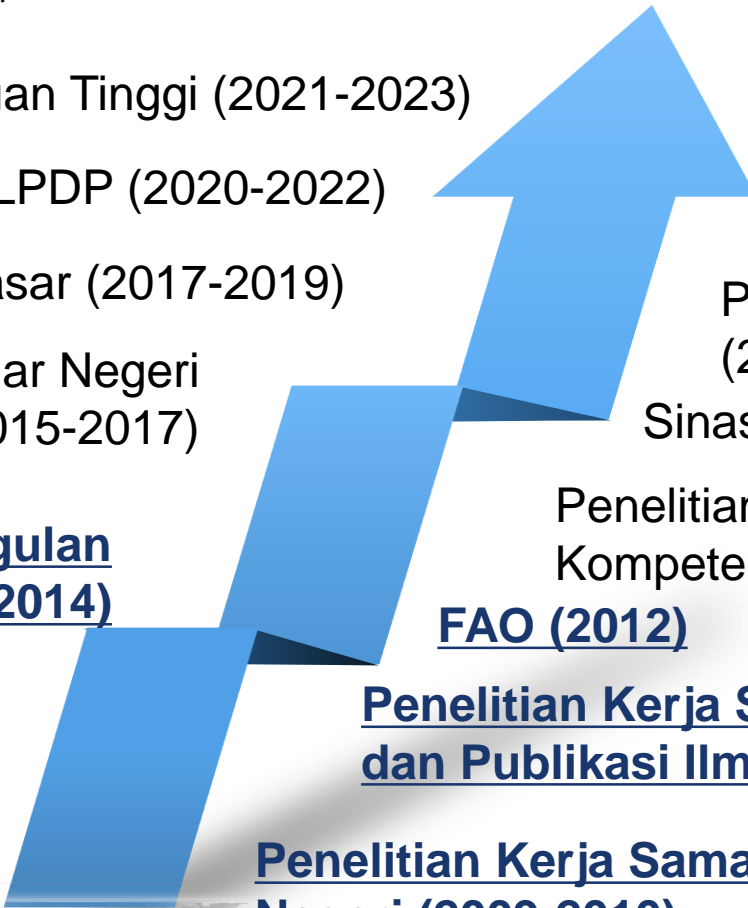
Penelitian Terapan Unggulan Perguruan Tinggi (2012-2014)

Program Kemitraan Masyarakat (2012-2013)



BILATERAL EXCHANGE PROGRAM JSPS/DGHE

Bilateral exchange program JSPS-DGHE 2010-2012



Penelitian Terapan (2021-2023)

Rispro Invitasi LPDP (2019-2022)

Penelitian Terapan (2018-2020)

Sinas (2014-2015)

Penelitian Berbasis Kompetensi (2014-2016)

FAO (2012)

Penelitian Kerja Sama Luar Negeri dan Publikasi Ilmiah (2012-2014)

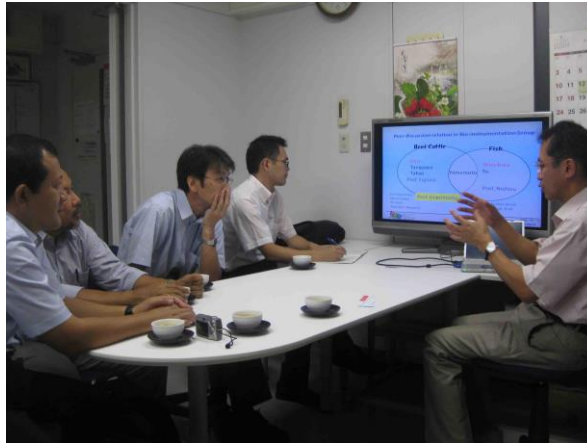
Penelitian Kerja Sama Luar Negeri (2009-2010)

International Networking

Invited speaker

1. UNIDO – Bangkok 2012
2. APO - Denpasar 2013
3. CIRDAP (Srilanka, Philippine, Myanmar) - 2014
4. ARD/SEARCA – Manila 2014
5. ASEAN Postharvest Losses – Jakarta 2018
6. IDEC – Tokyo Japan 2017
7. Vietnam National University 2018
8. FRUITIC Logistica Hongkong 2019
9. ASEAN Workshop on 4th Industrial Revolution: Artificial Intelligence Implementation in Energy Efficiency, Cyber Security, and Agriculture, Jakarta, 2020
10. APEC - 2021
11. Food and Fertilizer Technology Center Taiwan - 2021





Prof. N. Kondo Kyoto University

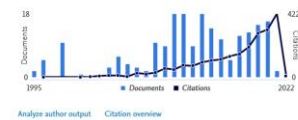
Kondo, Naoshi

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Document & citation trends



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SPECIAL ISSUE : RESEARCH ARTICLE

Authentication of the geographical origin of patchouli oil using front-face fluorescence spectroscopy and chemometric analysis

Dimas Firmanda Al Riza^{1,2}  | Slamet Widodo³ | Y. Aris Purwanto^{3,4} | **Naoshi Kondo¹**



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journal homepage: www.elsevier.com/locate/saa



Combined fluorescence-transmittance imaging system for geographical authentication of patchouli oil

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^b Department of Agricultural Engineering, Faculty of Agricultural Technology, University of Brawijaya, Jl. Veteran, 65145 Malang, Indonesia

^c Department of Mechanical and Biosystem Engineering, Bogor Agricultural University, Kampus IPB Darmaga, PO BOX 220, Bogor, West Java 16680, Indonesia

^d Center for Tropical Horticulture Studies, IPB, Bogor, Indonesia



International Collaboration

1. Sakura Exchange Program in Science (IPB-Kobe University) 2016- present



Dr. Shinichiro Kuroki
Kobe University



2. Establishment of International Cooperative Platform facilitating International Standardization for Fine-bubble Technologies “International Test Data Sharing Platform” – IDEC- The University of Tokyo Japan (2017-present)



Prof. Seiichi Oshita
University of Tokyo (2017)



Vietnam National university 2019



Kerjasama riset Aplikasi Ultra Fine Bubble Technology for agri-aqua farming, Bogor (2018)
Dr. Fujita (IDEC Corporation) dan WRRK IPB

Perjalanan memperoleh program Bilateral Exchange DGHE- JSPS Joint Research Program

