

STAFF HANDBOOK

Name	:	Widodo, SP., M.Sc., Ph.D
Post	:	Bioteknologi Pangan
Academic carrer	:	S1 UGM Mikrobiologi Pertanian S2 The University of New South Wales Biotechnology S3 University of Melbourne Australia Science
Employment	:	

Research over the last 5 years

No.	Judul	Tahun	Sumber Dana	Jumlah Dana (Rp)
1.	Studi Sintesis Conjugated Linoleic Acid (CLA) dari Probiotik Strain Indigenous asal Manusia dan Evaluasi Potensinya sebagai Agensia Antihiperkolesterolemia dan Antidiabetik pada Tikus Percobaan (<i>Rattus novergicus</i>)	2017	HIKOM	148.000.000
2.	Kajian Molekuler dan Seluler Pemanfaatan Prebiotik Inulin oleh Strain Probiotik Indigenous Asal Manusia dan Kemampuan Penempelan pada Gastric Mucin Secara In Vitro	2017	PUPT, DIKTI	209.000.000
3.	Pengembangan Produk Fermentasi Susu Kambing Menggunakan Kultur <i>Lactobacillus paracasei</i> M104 dan <i>Pediococcus pentosaceus</i> M103		Tematik Laboratorium Fak. Peternakan UGM	15.000.000
4.	Kajian Molekuler dan Seluler Pemanfaatan Prebiotik Inulin oleh Strain Probiotik Indigenous asal Manusia dan Kemampuan Penempelan pada Gastric Mucin Secara in Vitro (Ketua)	2016	PUPT	137.500.000
5.	Studi Sintesis Conjugated Linoleic Acid (CLA) dari Probiotik Strain Indigenous asal Manusia dan Evaluasi Potensinya sebagai Agensia Antihiperkolesterolemia dan Antidiabetik pada Tikus Percobaan (<i>Rattus novergicus</i>)	2016	HIKOM	125.000.000

	(Peneliti Tunggal)			
6.	Evaluasi Isolat Bakteri Asam Laktat Asal Susu Kambing sebagai Starter untuk Produksi Susu Fermentasi (Anggota dari 4 Peneliti)	2016	Hibah Tematik Laboratorium Fakultas Peternakan UGM	15.000.000
7.	Efek Suplementasi Probiotik Indigenous Bakteri Asam Laktat Enkapsulasi terhadap Performan Produksi dan Histologi Organ Imun Kalkun Fase Starter (Anggota dari 7 Peneliti)	2016	Hibah Pascasarjana Penelitian Fakultas Peternakan UGM	15.000.000
8.	Peranan Starter Kombucha pada Fermentasi Susu Kambing Probiotik (Anggota dari 4 Peneliti)	2016	Hibah Pascasarjana Penelitian Fakultas Peternakan UGM	15.000.000
9.	Studi Sintesis Conjugated Linoleic Acid(CLA)dari Probiotik Strain Indigenous asal Manusia dan Evaluasi Potensinya sebagai Agensia Antihiperkolesterolemia dan Antidiabetik pada Tikus Percobaan (<i>Rattus novergicus</i>) (Ketua dari 2 Peneliti)	2015	DIKTI (Hibah Kompetensi)	139.000.000
10.	Identifikasi Molekuler dan Potensi Probiotik Isolat Bakteri Asam Laktat Asal Susu Kambing Peranakan Ettawah (Ketua dari 5 Peneliti)	2014	Hibah Penelitian Fakultas Peternakan UGM	12.000.000
11.	Peningkatan Kapasitas Ekonomi Peternak Kambing Peranakan Ettawa (PE)	2014	MP3EI	150.000.000
12.	Kajian Potensi Susu Fermentasi Berbasis Probiotik Lokal Asal Manusia Terhadap Penurunan Kolesterol Tikus Putih (Peneliti Tunggal)	2013	Indofood Riset Nugraha 2013, PT Indofood Sukses Makmur	10.000.000
13.	Pengembangan dan Industrialisasi Makanan-Minuman Berbasis Susu Asal Kambing Peranakan Ettawa (PE) sebagai Penggerak Ekonomi Pedesaan di Jawa	2013	MP3EI	150.000.000
14.	Isolasi dan Identifikasi Bakteri Asam Laktat dari Susu Kambing Peranakan Ettawah (PE) (Ketua)	2013	Hibah Penelitian Tematik Laboratorium Fakultas Peternakan UGM	10.000.000
15.	Pengembangan Susu Probiotik Asal Kambing Peranakan Ettawa (PE) sebagai Sumber Pangan Kaya Nutrisi bagi Masyarakat Pedesaan	2012	Hibah Penelitian Dana BOPTN Fak. Peternakan UGM 2012	20.000.000
16.	Produksi Low Calorie Sweet Bio-Yoghurt Berbasis Penambahan	2012	Hibah Kolaborasi Dosen Mahasiswa (HKDM)	10.000.000

	Ekstrak Daun Stevia (Stevia Rebaudiana) sebagai Substitusi Gula (Ketua)			
Total				1.180.500.000

Community Service over the last 5 years

No.	Judul	Tahun	Sumber Dana	Jumlah Dana (Rp)
1.	Kambing dan Domba Perah(Kuliah Gratis “Bagimu Petani Kami Mengabdikan”)	2017	Dana Tidak Mengikat	
2.	Diseminasi Teknologi Pengolahan Susu di Kelompok Ternak Andini Gotro	2017	Hibah Tematik Laboratorium Fak. Peternakan UGM	10.000.000
3.	Penguatan Peternak Sapi Perah Menuju Konsep Agribisnis Persusuan yang Tangguh: Peningkatan Kualitas Susu Segar (Anggota)	2016	Hibah Tematik Pengabdian Fakultas Peternakan	10.000.000
4.	Penumbuhan Motivasi Peternak dalam Pengolahan Susu Pasteurisasi untuk Peningkatan Nilai Tambah Susu Kambing di Kelompok Ternak Bejo Dusun Kloposawit Girikerto Turi Sleman (Anggota)	2016	Hibah Pengabdian Program Pascasarjana Fakultas Peternakan UGM	10.000.000
5.	Pemberdayaan Masyarakat Desa sebagai Desa Wisata Ternak dan Desa Mandiri Energi	2016	BPPTNBH (Bantuan Pendanaan PTN BH)	15.800.000
6.	Penumbuhan Sikap dan Minat terhadap Diversifikasi Telur Asin Asap pada Kelompok Peternak Susu Murti di Lopati Trimurti Srandakan Bantul	2015	Hibah Pengabdian Program Pascasarjana Fakultas Peternakan UGM	7.500.000
7.	Peningkatan Kapasitas Ekonomi Kelompok Ternak di Area Ring Migas Kabupaten Bojonegoro	2015	CSR PT Pertamina	300.000.000
8.	Peningkatan Ketrampilan Kelompok PKK Ketandan Madurejo dengan Pembuatan Sosis Telur sebagai Peluang Usaha Keluarga	2014	Hibah Pengabdian Tematik Laboratorium Fakultas Peternakan UGM	7.500.000
9.	Pengembangan Kambing Peranakan Ettawa (PE) Melalui Kontes Ternak di Kabupaten Kulon Progo	2014	Hibah Pengabdian Program Pascasarjana Fakultas Peternakan UGM	10.000.000
10.	Sosialisasi Pengolahan Susu dan Telur (Sosis Telur) pada Kelompok PKK Ketandan Madurejo Prambanan	2014	Swadana	1.000.000
11.	Produksi Stick Susu Sebagai Upaya	2013	Hibah Pengabdian Program	7.500.000

	Diversifikasi Produk Olahan Susu Di Kelompok Peternak Susu Murni Dusun Lopati Trimurti Srandakan Bantul		Pascasarjana Fakultas Peternakan UGM	
12.	Pengembangan Telur Asin Yang Aman dan Higienis di UKM Aneka Usaha Ngabean, Triharjo, Pandak, Bantul	2013	Hibah Pengabdian Tematik Laboratorium Fakultas Peternakan UGM	5.000.000
13.	Kegiatan Temu Usaha Bidang Sosial Ekonomi Peternakan Kambing PE	2012	Dana Mandiri	2.000.000
Total				386.300.000

Industry collaboration over the last 5 years

No.	Judul	Tahun	Mitra	Jumlah Dana (Rp)
-	-	-	-	-

Patent and proprietary rights

No.	Judul	Tahun	No. Sertifikat
1	Bakteri Asam Laktat Strain Lokal: Isolasi Sampai Aplikasi sebagai Prebiotik dan Starter (Widodo, 2017)	2017	-

Important publications over the last 5 years

No.	Judul	Tahun	Dimuat pada
1.	Kefir Fermented with Glucomannan from Porang Tuber to Improve the Health of Metabolic Syndrome Rats	2017	Proceedings of 3rd International Conference on Food and Biosystems Engineering (3rd FaBE, 2017), Yunani, 1-4 Juni 2017. Pages: 100-109. ISBN: 978-960-9510-23-3
2.	Characterization and Antioxidant Activity of Fermented Milk Produced with a Starter Combination	2017	Pakistan Journal of Nutrition Vol. 16 (6): 451-456, 2017. ISSN: 1680-5194. DOI: 10.3923/pjn.2017.451.456
3.	Microbiological and Physicochemical Quality of Pasterurized Milk Supplemented with Sappanwood Extract (Caesalpinia sappan L.)	2017	International Food Research Journal / Universiti Putra Malaysia
4.	The quality of Fermented Milk Produced Using Intestinal-Origin Lactic Acid Bacteria As Starters	2017	International Food Research Journal / Universiti Putra Malaysia
5.	Identification of Bacterial Proteins Involved in Inulin Metabolism from	2017	Pak. J. Biotechnol. Vol. 14(3) 303-311 (2017) ISSN Print: 1812 -1837 ISSN

	Colon-Derived Lactobacillus Casei Strains		Online: 2312-7791. www/pjbt.org
6.	The Effect of Cumin (<i>Cuminum cyminum</i>) Addition as Source of Essential Oils on Nutrien Digestibility, VFA, Amonia and Methan Production	2017	The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 128-132. ISBN: 978-979-1215-29-9
7.	Addition of Feed Additive Binahong (<i>Anredera Cordifolia</i> (Ten.) Steenis) Leaf Meal into Diets on Growth Performance of Broiler Chickens	2017	The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 298-302. ISBN: 978-979-1215-29-9
8.	Chemical and sensory quality of milk fermented by starter combination of <i>Lactobacillus plantarum</i> Dad 13, <i>Lactococcus lactis</i> , and Yeast	2017	The 7th International Seminar on Tropical Animal Production (ISTAP), September 12-14, 2017, Yogyakarta, Indonesia. Pages: 400-408. ISBN: 978-979-1215-29-9
9.	<i>Amomum compactum</i> Soland ex Maton Addition as Essential Oil Source and Its Effect on Ruminant Feed Fermentation	2017	1st International Conference of Essential Oil (ICEO 2017), Oktober, 11-12, 2017. Malang – Indonesia
10.	Study of local herb potency as rumen modifier: The effect of Red Ginger (<i>Zingiber officinale</i> Var. <i>Rubrum</i>) on parameters of ruminal fermentation parameter in vitro	2017	International Ruminant Seminar, Universitas Diponegoro, Semarang, Indonesia, 24 October 2017
11.	The Capability of Gastrointestinal-origin <i>Lactobacillus casei</i> Strains to Alleviate Hyperglycemia in Rats (<i>Rattus norvegicus</i>): An In Vivo Study	2017	International Conference “Food Structures, Digestion & Health”, Sydney Australia, 24-27 Oktober 2017
12.	Study of Local Herb Potency As Rumen Modifier: The Effect of Red Ginger Addition In Diet on In Vitro Ruminant Nutrien Digestibility	2017	Present at The 5th International Seminar of Animal Nutrition & Feed Science (ISAINI), Mataram-Indonesia, 7-9 November 2017
13.	Identification of Bacterial Proteins Involved in Inulin Metabolism from Colonderived <i>Lactobacillus Casei</i> strains	2017	Pak. J. Biotechnol Vol. 14 No. 3, 2017, pages: 303 -311. ISSN: 2312-7791. URL: www/pjbt.org
14.	Pengaruh Mikroenkapsulasi Probiotik Bakteri Asam Laktat Indigenous Unggas terhadap Kemampuan Eksklusi Kompetitif pada <i>Salmonella enteritidis</i> dan <i>Escherichia coli</i> Secara In Vitro	2017	Buletin Peternakan Vol. 41 (2): 134-141, Mei 2017 ISSN-0126-4400 E-ISSN-2407-876X DOI: https://doi.org/10.21059/buletinpeternak.v41i2.17017
15.	Efektivitas Celup Puting Menggunakan Ekstrak Buah Mengkudu (<i>Morinda citrifolia</i>) terhadap Hasil Uji California Mastitis Test (CMT)	2017	Sains Peternakan Vol. 59 No. 5, 2017. Hal. 66-69. pISSN 1693-8828 eISSN 2548-932X. Penerbit: UNS. DOI: http://dx.doi.org/10.20961/sainspet.15.2.66-69 .

			www.jurnal.uns.ac.id/Sains-Peternakan
16.	Pengaruh Senyawa Fenol dalam Buah Mengkudu (<i>Morinda citrifolia</i>) terhadap Uji CMT (California Mastitis Test) Sapi Perah Mastitis Subklinis (Activity of Phenol of <i>Morinda Citrifolia</i> as Natural Antibacteria to Inhibit the Growth of Mastitis-Associated Bacteria).	2017	Buletin Peternakan Vol. 41 (4): 392-398, November 2017 ISSN-0126-4400 E-ISSN-2407-876X. Penerbit: Fakultas Peternakan UGM, Yogyakarta
17.	Study of Local Herb Potency as Rumen Modifier: The Effect of Red Ginger (<i>Zingiber officinale</i> Var. <i>Rubrum</i>) on Parameters of Ruminant Fermentation In Vitro	2017	IOP Conf. Series: Earth and Environmental Science Vol. 119 (2018) 012058. doi :10.1088/1755-1315/119/1/012058
18.	Evaluasi Isolat <i>Lactobacillus paracasei</i> M104 Asal Susu Kambing sebagai Starter Fermentasi Susu dengan Berbagai Level Kombinasi Medium (Penulis ke-3 dari 4)	2016	Prosiding Simposium Nasional Penelitian dan Pengembangan Peternakan Tropik Tahun 2016. Fakultas Peternakan Universitas Gadjah Mada, Yogyakarta. ISBN: 978-979-1215-28-2, hal: 399
19.	Evaluation of Lactic Acid Bacteria from Ettawah Crossedbred Goat Milk as Probiotic (Penulis ke-3 dari 3)	2016	Proceedings of The 17 th Asian-Australasian Association of Animal Production Societies Animal Science Congress, 22-25 August 2016, Fukuoka Japan
20.	Effect of <i>Kaempferia galanga</i> L. on in Vitro Nutrients Digestibility, Ruminant Fermentation and Methane Production (Penulis ke-2 dari 4)	2016	The 17 th Asian-Australasian Association of Animal Production Societies Animal Science Congress, 22-25 August 2016, Fukuoka Japan
21.	Studies on Antihyperglycemia and Antihypercholesterolemia in Rats (<i>Rattus norvegicus</i>) using Intestinal-origin Probiotics Strains (Penulis ke-1 dari 5)	2016	International Conference on Beneficial Microbes; ICOBM 2016, 31 Mei – 2 Juni 2016 di Phuket, Thailand
22.	The Use of Maltodextrin-Skim Milk Powder Mixture to Preserve Cell Viability of Poultry-origin Lactic Acid Bacteria during Spray Drying and Storage (Penulis ke-4 dari 4)	2016	International Conference on Beneficial Microbes; ICOBM 2016, 31 Mei – 2 Juni 2016 di Phuket, Thailand
23.	Short Communication: Genetic Identification of Local Pigs, and Imported Pigs (Landrace and Duroc) Based on Cytochrome b Sequence Analysis (Penulis ke 5 dari 5)	2016	Biodiversitas 17 (1): 270-274
24.	Effects of Supplementation of Microencapsulated Indigenous Probiotics Lactic Acid Bacteria on the Performance of Broiler Chickens at a Starter Phase (Penulis ke 3 dari 3)	2016	Proceedings of the 1 st UGM International Conference on Tropical Agriculture (ICTA), 25-26 October, 2016. Yogyakarta, Indonesia

25.	Effects of Four Essential Oils on Nutrients Digestibility of in Vitro Fermentation with Ongole Crossbreed Cattle Rumens Liquor (Penulis ke-2 dari 4)	2016	Proceedings of the 1 st UGM International Conference on Tropical Agriculture (ICTA), 25-26 October, 2016. Yogyakarta, Indonesia
26.	Antibacterial Quality of Pasteurized Milk Supplemented with Sappanwood Extract (<i>Caesalpinia sappan</i> L.) (Penulis ke-3 dari 3)	2016	Proceedings of the 1 st UGM International Conference on Tropical Agriculture (ICTA), 25-26 October, 2016. Yogyakarta, Indonesia
27.	Isolation and Identification of Goat Milk-Derived <i>Lactobacillus paracasei</i> M104 and <i>Pediococcus pentosaceus</i> M103 and Their Potential Use as Starter Culture for Fermentation ((Penulis ke-1 dari 5)	2016	Journal of Microbiology, Biotechnology and Food Sciences Vol. 5 (4) pages: 374-377. ISSN: 1338-5178
28.	Probiotics in Poultry	2016	Beneficial Microorganism in Agriculture, Aquaculture and Other Areas (Liong MT, and Steinbuchel A (editor). Springer International Publishing. Switzerland (2016): 1-19. ISBN: 978-3-319-23182-2
29.	Produksi Low Calorie Sweet Bio-Yogurt dengan Penambahan Ekstrak Daun Stevia (<i>Stevia Rebaudiana</i>) sebagai Pengganti Gula	2015	AgriTech Vol. 35 (4) pages: 464-473. ISSN: 0216-0455
30.	Selection of Human-origin <i>Lactobacillus</i> Strains as Probiotics with Capability in Synthesizing Conjugated Linoleic Acid and Alleviating Hyperglycemia in Rats (<i>Rattus norvegicus</i>) in Vivo	2015	The 6 th ISTAP International Seminar on Tropical Animal Production, pages: 111-116. ISBN: 978-979-1215-26-8
31.	Evaluation of Two <i>Lactobacillus</i> Strains as Probiotics with Emphasis in Utilizing Prebiotic Inulin as Energy Source	2014	International Research Journal of Microbiology Vol. 5 (3) pages: 33-40. ISSN: 2141-5463
32.	Preliminary Study on Health-Associated Effects of Human-origin Lactic Acid Bacteria as Probiotics	2014	Proceeding of International Conference on Beneficial Microbes ICOBM 2014
33.	Fermented Goat Milk and Cow Milk Produced by Different Starters of Lactic Acid Bacteria: Quality Studies	2013	Journal of Agricultural Science and Technology (A 3). ISSN: 904-911 1939-1250
34.	Human-origin Lactic Acid Bacteria Strains Isolated from Feces of Indonesian Infants Demonstrating Potential Characteristics as Probiotics In Vitro	2013	Proceeding of the Probiotics and their Applications International Conference
35.	Identification and Selection of Human-origin <i>Lactobacillus</i> strains as Probiotics with Capability in Synthesizing Conjugated Linoleic	2013	Proceedings of the Third International Symposium on Probiotics and Prebiotics: Microbiome, Gut-Brain Axis in Health and Disease

	Acid (CLA)		
36.	Studies on the Quality of Fermented Goat Milk and Cow Milk Produced by Different Starters of Lactic Acid Bacteria	2013	Indonesian Society for Lactic Acid Bacteria (ISLAB)
37.	Produksi dan Evaluasi Susu Bubuk asal Kambing Peranakan Ettawa	2012	Jurnal Teknologi dan Industri Pangan, Vol. 23 (2) pages: 132-139. ISSN: 1979-7788
38.	Human-origin Lactobacillus casei Isolated from Indonesian Infants Demonstrating Potential Characteristics in vitro	2012	Indonesian Journal of biotechnology Vol. 17 (1) pages: 79-89
39.	Identification of Pediococcus Strains Isolated from Feces of Indonesian Infants With in vitro Capability to Consume Prebiotic Inulin and to Adhere on Mucus	2012	Indonesian Journal of Biotechnology Vol. 17 (2) pages: 132-143
40.	Kemampuan Asimilasi Kolesterol Tiga Strain Lactobacillus acidophilus Dalam Medium Cair Berkolesterol	2012	Biota

Activities in specialist bodies over the last 5 years

No.	Nama Organisasi	Tahun	Tingkat (Nasional/Internasional)
-	-	-	-