



## PROFILE

Doctor in Environmental Studies, specialized in Food Waste Management and Microbiological approach for Sustainable Food Innovation and Development

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# GEMILANG LARA UTAMA

Assistant Professor

## EDUCATION

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**Universitas Padjadjaran**

2001 - 2006

Bachelor of Animal Husbandry

**Universitas Padjadjaran**

2008 - 2010

Magister in Environmental Studies

**Universitas Padjadjaran**

2012 - 2016

Doctor in Environmental Studies

## WORK EXPERIENCE

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**Universitas Padjadjaran [Assistant Professor]**

2017–Present

**Universitas Padjajaran [Manager of Planning and Information System]**

Faculty of Agro-Industrial Technology

2016–2017

**Universitas Padjajaran [Vice Dean of Planning, Information System, Government and Resources]** Faculty of Agro-Industrial Technology

2017–2018

**Universitas Padjajaran [Coordinator for Cooperation and Academic Corporation]** Center for Environment and Sustainability Science

2018–Present

**Universitas Padjajaran [Secretary of Magister Program on Environmental Studies]** Graduate School

2021–Present

**Universitas Padjajaran [Deputy Coordinator for Lecturer Certification]**

2021–Present

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## PROJECT EXPERIENCE

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Universitas Padjadjaran | CESS [Environment Section Expert] Environmental Impact Assessment of Sangkuriang Stadium Revitalitation | 2021

Karya Mandiri Environment [Waste Management Expert] Environmental Impact Assessment of Tapioca Industries in Bangka Regency | 2021

Universitas Padjadjaran | FTIP [Environment Section Expert] Environmental Social Impact Assessment of UCPS Cisokan | 2020-2021

Universitas Padjadjaran | FTIP [Environment Expert] The Development and Commercialization of Kelulut Honey and its Derivative Product in Central Bangka Regency | 2019

Universitas Padjadjaran [Environment Expert] Roadmap Establishment of Nutmeg Industrialization in Maluku Province | 2018

Universitas Padjadjaran [Food Security Expert] The Agency of Development Cooperation Jabodetabekjur, The Province of DKI Jakarta, Wet Java and Banten | 2018

Universitas Padjadjaran [Environment Expert] The Development of Tacca Tuber as Potential Local Commodity in West Bangka Regency | 2017

## RESEARCH EXPERIENCE

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Ministry of Education and Culture [Principal Investigator] Biodegradable Antimicrobial Film from Cassava Peel and By-product of Cheese making for Eco-Friendly Food Packaging | 2020-2021

Ministry of Education and Culture [Co-Principal Investigator] Decontamination of molds and mycotoxins through the introduction of yeasts and  $\beta$ -glucans from yeast cell walls | 2020-2021

Ministry of Education and Culture [Principal Investigator] Utilization of Tofu Liquid Waste as Yeast Growth Media in  $\beta$ -glucan Production | 2020

Ministry of Education and Culture [Principal Investigator] Isolation of  $\beta$ -Glucan from Microorganisms and Identification of Its Potential as Antioxidant | 2019-2020

Ministry of Education and Culture [Principal Investigator] Analysis of Amino Acid and Peptide Profiles of Fermented Whey by Indigenous Yeasts | 2019

National Research and Innovation Agency | National Innovation System Research Incentive [Principal Investigator] Conversion of bioethanol from taca tubers (*Tacca leontopetaloides*) with variations of the indigenous yeast consortium and the operation of the RK TEP-1401 portable reactor | 2017-2018

Universitas Padjadjaran | Internal Research Grant [Principal Investigator] Optimizing the bioconversion of vegetable and fruit waste in traditional markets through variations of the indigenous yeast consortium and the operation of the RK TEP-1401 portable reactor | 2017-2018

## PUBLICATION

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Bioconversion Rice Bran and Cassava Peel into Yeasts Cell Walls Mannoprotein as Environmental Friendly Antioxidant, *Novia Oktaviani, Ki Ageng Sarwono, Gemilang Lara Utama*, E3S Web of Conference, 249, 03004, 2021

The potential of dry fermented cocoa (*Theobroma cacao* L.) variety Lindak bean shell treated at different degrees of roasting as a functional food, *Elazmanawati Lembong, M. Djali, Zaida, Gemilang Lara Utama*, IOP Conference Series: Earth and Environmental Science, 733 (1), 012068, 2021

Isolation and Characterization of Indigenous Yeast from Bekasam Catfish (*Pangasius hypophthalmus*), *Mohammad Ikhsan Prawira Negara, Tri Yuliana, Gemilang Lara Utama*, Int. J. of Eng. Adv. Res., 3 (1): 1-12, 2021

Mozzarella Whey Indigenous Yeasts and their Potential in Amino acid and Peptide Production through Fermentation, *Gemilang Lara Utama, Faysa Utba, Yana Cahyana, Roostita Lobo Balia*, Sys. Rev. Pharm., 12 (1): 1358-1366, 2021

Recent Trends in Plant-and Microbe-Based Biopesticide for Sustainable Crop Production and Environmental Security, *Deepak Kumar Verma, Karen Nathiely Ramírez Guzmán, Balaram Mohapatra, Digangana Talukdar, Mónica L Chávez*

González, Vipul Kumar, Shikha Srivastava, Vishal Singh, Roni Yulianto, S Ezhil Malar, Aziz Ahmad, **Gemilang Lara Utama**, Cristobal Noe Aguilar, [Recent Developments in Microbial Technologies] 1-37, Springer, Singapore, 2021

**$\gamma$ -Aminobutyric acid found in fermented foods and beverages: current trends**, Novia RM Sahab, Edy Subroto, Roostita L Balia, **Gemilang Lara Utama**, Heliyon, 6 (11) e05526, 2021

**Potential of cheese whey bioactive proteins and peptides in the development of antimicrobial edible film composite: A review of recent trends**, Isfari Dinika, Deepak Kumar Verma, Roostita Balia, **Gemilang Lara Utama**, Ami R Patel, Trends in Food Science and Technology, 103 (Sep.2020): 57-67, 2020

**Treatment of *S. cerevisiae* and dairy cow manure on organic waste for biogas production**, Tami Rahma Lestari, **Gemilang Lara Utama**, AB Susanto, IOP Conference Series: Earth and Environmental Science, 483 (1), 012032, 2020

**The Utilization of Vegetable and Fruit Wastes for *Saccharomyces cerevisiae* Cell Wall Based  $\beta$ -Glucan Production with Antioxidant Activity**, **Gemilang Lara Utama**, Florensia Irena, Elazmanawati Lembong, Indira Lanti Kayaputri, Tensiska Tensiska, Roostita Lobo Balia, Acta Universitatis Agriculturae et Silviculturae Mendelianae Brunensis, 68 (1): 119-127, 2020

**Anti-microbial activity of the red beet extract (*Beta vulgaris* L.) with solvent ethanol and acid addition variation**, Elazmanawati Lembong, **Gemilang Lara Utama**, IOP Conference Series: Earth and Environmental Science, 443 (1), 012088, 2020

**Optimization of gaseous ozone application in reducing total amount of microorganism in Muntok white pepper**, Hayu Lesa Putri, **Gemilang Lara Utama**, Robi Andoyo, IOP Conference Series: Earth and Environmental Science, 443 (1), 012088, 2020

**Microorganism-Based  $\beta$ -Glucan Production and their Potential as Antioxidant**, **Gemilang Lara Utama**, Casey Dio, Elazmanawati Lembong, Yana Cahyana, Roostita L Balia, Sys. Rev. Pharm., 11 (10): 868-873, 2020

**Profile of antibiotic resistance of *Escherichia coli* in mastitis from the environment of dairy cow farming in Pangalengan, West Java**, Agung Novianto, Nia Rosianna Roostita Balia, **Gemilang Lara Utama**, Pranyata Tangguh Waskita, Lucrări Științifice-Universitatea de Științe Agricole și Medicină Veterinară, Seria Zootehnie, 74 (1): 29-32, 2020

**Antibiotic resistance analysis of *Staphylococcus aureus* as a main cause of mastitis in the southern region of Bandung regency**, Pranyata Tangguh Waskita, Roostita Balia, Benny Joy, **Gemilang Lara Utama**, Agung Novianto, Scientific Papers: Series D, Animal Science-The International Session of Scientific Communications of the Faculty of Animal Science, 63 (1), 2020

**Determination of Critical Point of Chicken Fillet Damage Using Polyethylene Packaging at 4° C Storage Temperature**, Rosalina Ilmi Amalia, Bunayya Rabbika Firly, Bella Alfiah Simamora, Nurul Sakinah, Tita Rialita, **Gemilang Lara Utama**, Scientific Papers: Management, Economic Engineering in Agriculture & Rural Development, 20 (1), 2020

**Microbiological Approach for Environmentally Friendly Dairy Industry Waste Utilization**, **Gemilang Lara Utama**, Faysa Utba, Widia Dwi Lestari, Roostita Balia, [Microbiology for Food and Health] 197-230, Apple Academic Press, 2019

**The Potential of Urban Organic Waste Utilization as Neo Carbon Food**, Suhartini Lestari Putri, Christiana V Marbun, **Gemilang Lara Utama**, IOP Conference Series: Earth and Environmental Science, 396 (1), 012007, 2019

**Fermentation Process of Glycerol to Arabitol from Byproducts of Reutalis trisperma Biodiesel Using Yeast of Debaryomyces Hansenii**, Efri Mardawati, Robi Andoyo, Mimin Muhaemin, Sarifah Nurjanah, Darajat Natawigena, Totok Herwanto, **Gemilang Lara Utama**, Ade M Kramadibrata. IOP Conference Series: Earth and Environmental Science, 347 (1), 012132, 2019

**The Growth of Native Yeasts on Mozzarella Cheese Whey with the Resistance towards High Glucose and Ethanol Contents**, Roostita Lobo Balia, Lilis Suryaningsih, Andry Pratama, **Gemilang Lara Utama**, IOP Conference Series: Earth and Environmental Science, 347 (1), 012001, 2019

**Study of the Addition Hull of Mung Bean Sprouts Extract to pH and Characteristic of Sensory Yogurt Probiotic**, Syifa Khairunnisa, Indira Lanti Kayaputri, **Gemilang Lara Utama**, Jurnal Ilmu dan Teknologi Hasil Ternak (JITEK), 14 (2): 99-106, 2019

**The potential of mannoprotein extracted from *Candida apicola* cell wall as emulsification agent**. Sugiah Sugiah, Roostita Lobo Balia, **Gemilang Lara Utama**, Robi Andoyo, IOP Conference Series: Earth and Environmental Science, 443 (1), 012088, 2020

**Optimization of gaseous ozone application in reducing total amount of microorganism in Muntok white pepper**, Hayu Lesa Putri, **Gemilang Lara Utama**, Robi Andoyo, Scientific Papers: Management, Economic Engineering in Agriculture & Rural Development, 19(4), 2019

**Stress tolerance yeast strain from papaya wastes for bioethanol production, *Gemilang Lara Utama*, Ita Krissanti Tyagita, Dwi Wahyudha Wira, Roostita L Balia, International Journal of GEOMATE, 17 (61): 97-103, 2019**

**The diversity of papaya (*Carica papaya*) seeds indigenous yeasts and its antimicrobial activities towards *E. coli* and *S. typhimurium*, *Gemilang Lara Utama*, Indira Lanti Kayaputri, Roostita Lobo Balia, Studia Universitatis Vasile Goldis Seria Stiintele Vietii (Life Sciences Series), 29 (3), 2019**

**Antibacterial Activity Test of Indigenous Yeast from Sapodilla Fruit against *Staphylococcus aureus* and *Escherichia coli*, *Gemilang Lara Utama*, Mufiara Nabila, Heni Radiani Arifin, Elazmanawati Lembong, Tita Rialita, Microbiology Indonesia, 13 (4), 2019**

**The Roles of *Candida tropicalis* Toward Peptide and Amino Acid Changes in Cheese Whey Fermentation, Isfari Dinika, Bambang Nurhadi, Nanang Masruchin, Roostita L Balia, *Gemilang Lara Utama*, Int. J. of Technology, 443 (1), 012088, 2020**

**Effect of Macronutrient Needs on Digestibility and Average Daily Gain of Sheep (*Ovisaries var. Padjadjaran, Family Bovidae*), Rahmat Hidayat, Kurnia Asumatrani Kamil, Lilis Suryaningsih, *Gemilang Lara Utama*, Roostita Lobo Balia, International Journal on Advanced Science Engineering Information Technology, 9 (5): 1618-1623, 2019**

**Indigenous yeast with cellulose-degrading activity in napa cabbage (*Brassica pekinensis* L.) waste: characterisation and species identification, *Gemilang Lara Utama*, Widia Dwi Lestari, Indira Lanti Kayaputri, Roostita Lobo Balia. Foods and Raw Materials, 7 (2): 321-328, 2019.**

**The utilization of fruit and vegetable wastes for bioethanol production with the inoculation of indigenous yeasts consortium. *Gemilang Lara Utama*, Febrin EE Sidabutar, I Felina, Dwi Wahyudha Wira, Roostita Lobo Balia, Bulgarian Journal of Agricultural Science, 25 (2): 264-270, 2019.**

**Cheese whey as potential resource for antimicrobial edible film and active packaging production, Isfari Dinika, *Gemilang Lara Utama*, Foods and Raw materials, 7 (2), 2019.**

**Optimization of gaseous ozone application in reducing total amount of microorganism in Muntok white pepper, Hayu Lesa Putri, *Gemilang Lara Utama*, Robi Andoyo, IOP Conference Series: Earth and Environmental Science, 443 (1), 012088, 2020**

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