

Staff Handbook

Name	<i>Dr. Rio Jati Kusuma, MS</i>											
Post	<i>Molecular Nutrition</i>											
Academic career	<i>Initial academic appointment Bachelor in Health and Nutrition</i>	<i>Institution Universitas Gadjah Mada</i>	<i>Year 2006-2010</i>									
	<i>Master in Biochemistry and Molecular Nutrition</i>	<i>University of Nebraska-Lincoln</i>	<i>2013-2015</i>									
	<i>Doctor in Medicine and Health</i>	<i>Universitas Gadjah Mada</i>	<i>2018-2022</i>									
Employment	<i>Position Lecturer</i>	<i>Employee Nutrition study program, Faculty of Medicine, Gadjah Mada University</i>	<i>Period 2017-present</i>									
Research and development projects over the last 5 years	<ol style="list-style-type: none"> 1. <i>Development of bioactive peptide with Anti-diabetic activity from Selar fish using protease from soy tempeh (2018)</i> 2. <i>Role of selar fish bioactive peptide on duodenal GLP-1 expression in diabetic rats (2018)</i> 3. <i>Effect of fermented rice bran on metabolic profile, gut microbiota and short chain fatty acids of humanized microbiome type 2 Diabetes (2019)</i> 4. <i>Development of type 2 Diabetes model using fecal microbiota transplant (2019)</i> 5. <i>Impact on tempeh processing with addition of naturally acquired lactic acid bacteria on nutrient composition and microbiota composition of tempeh (2020)</i> 6. <i>Therapeutic effect of modified tempeh on metabolic profiles, gut microbiome, and gluconeogenic gene expression in Diabetic Rats (2020)</i> 7. <i>Development of biopolymeric butyrate rice analog as rice alternative for diabetes mellitus (2022)</i> 8. <i>Screening of indigenous lactic acid bacteria with beta-glucan synthase for the development of functional gummies (2023)</i> 9. <i>Screening and isolation of lactic acid bacteria with high beta-glucosidase activity for increasing the anti-diabetic activity soy of tempeh (2023)</i> 											
Industry collaborations over the last 5 years	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Project title</i></th> <th style="text-align: center;"><i>Partners</i></th> <th style="text-align: center;"><i>Year</i></th> </tr> </thead> <tbody> <tr> <td><i>Elevation of knowledge in regards of hygiene and sanitation in boarding house of children with cancer</i></td> <td><i>Department of Health and Nutrition, Faculty of Medicine, Public Health and Nursing, UGM</i></td> <td style="text-align: center;"><i>2018</i></td> </tr> <tr> <td><i>Donokerto Health Promoting Village: Focus on Non Communicable Disease</i></td> <td><i>Department of Nursing, Faculty of Medicine, Public Health and Nursing, UGM</i></td> <td style="text-align: center;"><i>2019</i></td> </tr> </tbody> </table>			<i>Project title</i>	<i>Partners</i>	<i>Year</i>	<i>Elevation of knowledge in regards of hygiene and sanitation in boarding house of children with cancer</i>	<i>Department of Health and Nutrition, Faculty of Medicine, Public Health and Nursing, UGM</i>	<i>2018</i>	<i>Donokerto Health Promoting Village: Focus on Non Communicable Disease</i>	<i>Department of Nursing, Faculty of Medicine, Public Health and Nursing, UGM</i>	<i>2019</i>
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	<i>Update on traditional medicine part 2</i>	<i>BKTM Makassar, Indonesia</i>	2020
	<i>Development of Prevention program for non-communicable disease in Banyurejo, Tempel, Sleman</i>	<i>Department of pharmacology, Faculty of Medicine, Public Health and Nursing, UGM</i>	2023
	<i>Improving quality of life in patient with chronic renal disease with dialysis through nutritional education and exercise</i>	<i>Department of Internal Medicine, Faculty of Medicine, Public Health and Nursing, UGM</i>	2023
Patents and proprietary rights	-		
Important publications over the last 5 years	<i>Selected recent publications from a total of approx. (give total number): 8</i>		
	<i>Author(s)</i>	<i>Title</i>	<i>Publisher, place of publication, date of publication or name of periodical, volume, issue, page numbers</i>
	<i>Bira Arumndari Nurrahma, Mega Febia Suryajayanti, Anggi Laksmi Dewi, Zunamilla Khairia, Rio Jati Kusuma, Perdana ST Suyoto</i>	<i>Fermented rice bran extract improves dyslipidemia in rodents</i>	<i>Nutrition and Food Science; 48(2): 375-383</i>
	<i>Rio Jati Kusuma, Aviria Ermamilia</i>	<i>Fortification of tempeh with encapsulated iron improves iron status and gut microbiota composition in iron deficiency anemia condition</i>	<i>Nutrition and Food Science; 48(6): 962-972</i>
	<i>Desty Ervira Puspaningtyas, Puspita Mardika Sari, Rio Jati Kusuma</i>	<i>Exploring the potency of gathotan and gathot as diabetes functional food: resistant starch analysis</i>	<i>IOP Conf. Serires: Earth and Environ-mental Science; 207 (2019) 01.2042</i>
	<i>Tri Setyawati, Rio Jati Kusuma, Harry Freitag Luglio, Neni Oktiyani, Sunarti Sunarti, Rosmala Nur, Syaiful Hendra</i>	<i>The Effect of Gembili Starch (Dioscorea esculenta) and Eubacterium rectal Supplementation on Skeletal Muscle Peroxisome Proliferator-Activated Receptor γ Coactivator 1α (Pgc-1α) Expression in Diabetic Mice Models</i>	<i>Open Access Macedonian Journal of Medical Science; 9(A):1061-7</i>

	<i>Imroatus Sholikhha Rio Jati Kusuma, Aviria Ermamalia, Salehah N. Halimah, Ninda F. Pradani</i>	<i>Selar (Selar crumenophthalmus) Fish Protein Hydrolysate Has Antidiabetic Properties Possibly through GLP-1</i>	<i>Current Nutrition and Food Science; 17(5):516-522</i>
	<i>Rio Jati Kusuma, Jaka Widada, Emy Huriyati, Madarina Julia</i>	<i>Naturally Acquired Lactic Acid Bacteria from Fermented Cassava Improves Nutrient and Anti-dysbiosis Activity of Soy Tempeh</i>	<i>Open Access Macedonian Journal of Medical Sciences; 9(A):1148-1155</i>
	<i>Rio Jati Kusuma, Jaka Widada, Emy Huriyati, Madarina Julia</i>	<i>Therapeutic Effects of Modified Tempeh on Glycemic Control and Gut Microbiota Diversity in Diabetic Rats</i>	<i>Current Nutrition and Food Science; 18(8):765-774</i>
	<i>Happy Kurnia Permatasari, Fahrul Nurkolis, William Ben Gunawan, Vincentius Mario Yusuf, Muhammad Yusuf, Rio Jati Kusuma, Nindy Sabrina, Farizal Rizky Muharram, Nurpudji Astuti Taslim, Nelly Mayulu, Siti Chairiyah Batubara, Mrinal Samtiya, Hardinsyah Hardinsyah, Apollinaire Tsopmo</i>	<i>Modulation of gut microbiota and markers of metabolic syndrome in mice on cholesterol and fat enriched diet by butterfly pea flower kombucha</i>	<i>Current Research in Food Science; 5:1251-1265</i>
	<i>Rio Jati Kusuma, Desty Ervira Puspaningtyas, Puspita Mardika Sari</i>	<i>Effect of fermented cassava tuber on the gene expression of PI3K/Akt signaling and AMPK pathway in STZ-NA-induced diabetic rats</i>	<i>Nutrition and Food Science; Vol. 52 No. 2, pp. 213-224</i>
	<i>Fahrul Nurkolis, Nurpudji Astuti Taslim, Dionysius Subali, Rudy Kurniawan, Hardinsyah Hardinsyah, William Ben Gunawan, Rio Jati Kusuma, Vincentius Mario Yusuf, Adriyan Pramono, Sojin Kang, Nelly Mayulu, Andi Yasmin Syauki, Trina</i>	<i>Dietary Supplementation of <i>Caulerpa racemosa</i> Ameliorates Cardiometabolic Syndrome via Regulation of PRMT-1/DDAH/ADMA Pathway and Gut</i>	<i>Nutrients; 15(4): 909</i>

	<i>Ekawati Tallej, Apollinaire Tsopmo, Bonglee Kim</i>	<i>Microbiome in Mice</i>	
	<i>Any other information : -</i>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>Membership without a specific role need not be mentioned</i>		