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## Fatchiyah

(Professor)

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Faculty of Mathematics and Natural Science,  
Brawijaya University, Malang  
Indonesia

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**Place of Birth**                      Pekalongan, Indonesia

**Date of Birth**                        November 27, 1963

**Nationality**                         Indonesia

**Interest**                              • Biomedical Science  
• Biochemistry  
• Molecular Genetics  
• Molecular Biomechanism  
• Nutrigenomic

**Education**                         **Faculty of Biology, Gadjah Mada University**  
**Yogyakarta, Indonesia**  
1988

**Medical Science Program, Airlangga University**  
**Surabaya, Indonesia**  
1995

**NIBB, School of Life Sciences**  
**The Graduate University for Advanced Studies,**  
**Okazaki, JAPAN**  
2006

**Experience**                         **Brawijaya University**  
2013– present  
University Senate for Academic Commission

**Faculty of Mathematics and Natural Sciences, Brawijaya University**

2013– present  
Faculty Senate

**BioSains Institute, Brawijaya University**

2012– present  
Director

**Research interest in Smart Molecule of Natural Genetics Resources  
Brawijaya University**

2012– present  
Head of research group

**Research interest in Smart Molecule of Natural Genetics Resources  
Brawijaya University**

2012– present  
Testing Laboratory Assessor

**Nasional (KAN); SNI ISO/IEC 17025:2008 for Testing and Calibration  
Laboratory**

2012– present  
Testing Laboratory Assessor

**Brawijaya University-Kassel University**

2011– 2014  
IGN-TTRC Coordinator

**Kassel University, Germany**

2010  
Visiting Researcher

**Central Laboratory of Life Sciences Brawijaya University**

2007-2012  
Director

**Brawijaya University**

2007– present  
Vice Head of Ethical Research Committee

**NIBB, Okazaki Institute, JAPAN**

2002-2006  
Assistant Researcher

**Department of Biology, Faculty of Mathematics and Natural Sciences  
Brawijaya University**

1989– present  
Lecturer

**Societies**

**Acceleration class (CI + BI) in Malang**

2009 - 2010  
Mentor of Teacher

**Education conference (CI + BI), Madrasah Aliyah Negeri III, Malang**

2010  
Speaker

**Bioinformatics and flowcytometry analysis workshop in Brawijaya  
University, Malang**

2010

Instructor

**International publications workshop in Faculty of Mathematics and Natural Sciences, Brawijaya University**

2010

Speaker

**Specimen sampling and preservation to enhance a role of teacher(s) as fauna conservation pioneer(s)**

2011

Trainer

**Genetic material (DNA and chromosomes) introduction to an early age student in elementary school(s), Malang**

2012

Demonstrator

**Virtual Laboratory Learning for Malang High School Students**

2013

Trainer

**Biotechnology knowledge to medical personnel in district hospital of Kediri**

2014

Quality improver

**Biotechnology knowledge to medical personnel in district hospital of Kediri**

2014

Quality improver

**Honors**

**Cell and Tissue Association Japan**

2007

Young Investigator Award

**Nestle Nutrition Japan**

2007

Best Original Paper Award Investigator Award

**KALBE-RISTEK**

2012

Young Scientist

**Brawijaya University**

2014

Best Citation Award

**Nutrition Research Grant Nutrifood Research Center**

2015

Finalist

**Brawijaya University**

2015

Best Performance Lecturer

**Publications**

Fatchiyah F, Setiawan B, Suharjono S, Noor Z. The anti-osteoporosis effects of CSN1S2 protein of goat milk and yoghurt on a complete Freund's adjuvant-induced

- rheumatoid arthritis model in rats. *Biomarkers and Genomic Medicine* (2015b) xx, 1-8. <http://dx.doi.org/10.1016/j.bgm.2015.10.001>
- Vita Agustina, Bambang Setiawan, Fatchiyah F. 2015. Acute toxicity of caprine alpha S2-casein protein on the microstructures and mineral profiles of rat ileum. *Asian Pacific Journal of Tropical Disease*, 08/2015; 5(9):721-725. DOI:10.1016/S2222-1808(15)60920-3.
- B Tong, G Q Gao, Y Muramatsu, T Ohta, H Kose, G P Li, F Fatchiyah, T Yamada. Association of the expression levels in the longissimus muscle and a SNP in the CDC10 gene with marbling in Japanese Black beef cattle. *Meat Science* 108:28-31 May 2015.
- Rista Nikmatu Rohmah, Ferlany Hardiyanti, Fatchiyah Fatchiyah. Inhibition on JAK-STAT3 Signaling Transduction Cascade Is Taken by Bioactive Peptide Alpha-S2 Casein Protein from Goat Ethawah Breed Milk. *Acta Informatica Medica* 07/2015; 23(4):233-238. DOI:10.5455/aim.2015.23.233-238.
- Sri Rahayu Lestari, Muhammad Sasmito Djati, Achmad Rudijanto, Fatchiyah Fatchiyah. PPAR $\gamma$  expression by rambutan peel extract in obesity rat model-induced high-calorie diet. *Asian Pac J Trop Biomed* 2015; 5(10): 812-
- Rike Oktarianti, Kartika Senjarini, Toshiya Hayano, Fatchiyah Fatchiyah, Aulanni'am. Proteomic analysis of immunogenic proteins from salivary glands of *Aedes aegypti*. *Journal of Infection and Public Health* (2015) xxx, xxx-xxx (InPress) doi:10.1016/j.jiph.2015.04.022
- Rista Nikmatu Rohmah, Edi Widjajanto, Fatchiyah Fatchiyah. Protective effect of CSN1S2 protein of goat milk on ileum microstructure and inflammation in rat-CFA-induced rheumatoid arthritis. *Asian Pac J Trop Dis* 2015; 5(7): 564-568. [http://dx.doi.org/10.1016/S2222-1808\(15\)60837-4](http://dx.doi.org/10.1016/S2222-1808(15)60837-4)
- Rivqi Rifa Bia, Regina Putri Virginia, Bambang Setiawan, Aris Soewondo, Fatchiyah Fatchiyah. Goat milk CSN1S2 is able to decrease the severity scoring, tumor necrosis factor-alpha, and advanced glycation end products receptor expression in complete Freund's adjuvant-induced rheumatoid arthritis model of rats. *Biomarker and Genomic Medicine*. 2015, xx: 1-8 DOI: <http://dx.doi.org/10.1016/j.bgm.2015.02.001>
- Fatchiyah Fatchiyah, Ferlany Hardiyanti, Nashi Widodo Selective Inhibition on RAGE-binding AGEs Required by Bioactive Peptide Alpha-S2 Casein Protein from Goat Ethawah Breed Milk: Study of Biological Modeling. *Acta Informatica Medica* 01/2015; 23(2): 90-96. DOI:10.5455/aim.2015.23.90-96
- Choirunil Chotimah, Gatot Ciptadi, Bambang Setiawan, Fatchiyah Fatchiyah. CSN1S2 protein of goat milk inhibits the decrease of viability and increases the proliferation of MC3T3E1 pre-osteoblast cell in methyl glyoxal exposure. Elsevier – *Asian Pacific J Tropical Disease* 2015; 5(3): 219-223
- Fatchiyah F, SJ Raharjo, FRP Dewi. Virtual Selectivity Peptides of CSN1S2 Protein of Local Goat Ethawah Breeds Milk Modulate Biological Mechanism Of Calmodulin. *Int J Pharm Bio Sci* 2015 April;; 6(2): (B) 707 – 718
- Sri Hardyastutie, A, D.W.Soeatmadji, Fatchiyah Fatah, and Aulanni'am. Relation of Elevated Serum Lipase to Indonesian Type 2 Diabetes Mellitus Progression. *Biomedical Research* 2015; 26 (2): 293-298
- Sri Rahayu Lestari, Muhammad Sasmito Djati, Ahmad Rudijanto, Fatchiyah Fatchiyah. The physiological response of obese rat model with rambutan peel extract treatment. *Asian Pac J Trop Dis* 2014; 4(Suppl 2): S780-S785
- Choirunil Chotimah, Masruroh Rahayu, Gatot Ciptadi, Fatchiyah Fatchiyah. 2014. Optimization of Neuron cells Maturation and Differentiation. *Jurnal Biotropika* Vol. 2 No. 4 : 191-197
- Sentot Joko Raharjo, Chanif Mahdi, Nurdiana, Takheshi Kikuchi, Fatchiyah Fatchiyah. Binding energy calculation patchouli alcohol isomer-cyclooxygenase complexes as suggestion COX-1/ COX-2 inhibitor selective. *Hindawi - Advance in*

Bioinformatics, 2014; <http://dx.doi.org/10.1155/2014/850628>

- Rike Oktarianti, Kartika Senjarini, *Fatchiyah Fatchiyah*, Aulanni'am. Immunogenic Protein from Salivary Gland of *Aedes aegypti* Against to Human Sera. *Advances in Natural and Applied Sciences*, 8(8) July 2014, 101-107
- Srihardyastutie, A, D.W.Soeatmadji, *Fatchiyah Fatah*, and Aulanni'am. The Relationship between HbA1c, Insulin Resistance and Changes of Insulin Secretion in Indonesian Type 2 Diabetic Subjects. *Advances in Natural and Applied Sciences*, 8(8) July 2014, Pages: 25-30
- Anggun Indah Budiningrum, Achmad Rofi'i, Suharjo Suharjo, *Fatchiyah Fatchiyah*. LMP-1 and Nasopharyngeal Carcinoma (NPC). *Cukurova Med J*. 2014; 39(3): 480-487 (PDF: NPC LMP1 cutf\_39\_03\_09)
- Nur Kusmiyati, Nur Hidayat, *Fatchiyah Fatchiyah*. Partial Analysis 16S rRNA Gene in *Lactobacillus* spp. from Natural Fermented Milk [English] *Cukurova Med J*. 2014; 39(1): 99-104
- Nila Kartika Sari, Eriko Prawestiningtyas, *Fatchiyah Fatchiyah*. Revealing the Genetic Variation and Allele Heterozygote Javanese and Arab Families in Malang East Java Indonesia. *Cukurova Med J*. 2014; 39(1): 39-47
- Nikmatul Iza, Eriko Prawestiningtyas, *Fatchiyah Fatchiyah*. Forensic Profiling of Javanese and Madurese Families in Malang and Madura, East Java Indonesia. *Cukurova Med J*. 2014; 39(1): 26-38
- Sri Rahayu Lestari, Muhammad Sasmito Djati, Ahmad Rudijanto, *Fatchiyah Fatchiyah*. Production and Potency of Local Rambutan at East Java as A Candidate Phytopharmaca. *J. of Agricultural Science Agrivita*, 2013, 35 (3): 270-276
- Sentot Joko Raharjo, Chanif Mahdi, Nurdiana, Wolfgang Nellen and *Fatchiyah F. Patchouli* Alcohol Isomers Pogostemon Herba Predicted Virtually. *Journal of Biological Researches*: 18 (98-101), 2013
- Nur Kusmiyati, Nur Hidayat, *Fatchiyah F. Genetic Diversity of Lactobacillus Spp. of Natural Ethawah Goat Milk-Fermented was Determined by Using 16srDNA With DDGE Analysis. Journal of Biological Researches*: 18 (91-94), 2013
- Fatchiyah Fatchiyah*, Nur Christian, DjokoWahono Soeatmadji. Reducing IRS-1 Activation Cause Mutation of Tyrosine Kinase Domain hINSR Gene on Type-2 Diabetes Mellitus Patients. *Bioinformation* 9(17): 853-857 (2013)
- Rista Nikmatu Rohmah, Soraya Widyasari, Aulanni'am, *Fatchiyah*. Cloning and Expression of hGAD65 Gene in *E. Coli* BL21. *Ind. J. Biotech*. 2013. vol 18 No 1: 52-57
- Anggun I. Budiningrum, Achmad Rofi'i, Suharjo Suharjo, *Fatchiyah Fatchiyah*. PARP-1 expression against Epstein-Barr virus LMP-1 and BZLF-1 in undifferentiated nasopharyngeal carcinoma. *J Exp. Integr. Med*. 2013; 3(4):299-304
- Firli Rahmah Primula Dewi and *Fatchiyah Fatchiyah*. Methylation Impact Analysis of Erythropoietin (EPO) Gene to Hypoxia Inducible Factor-1 $\alpha$  (HIF-1 $\alpha$ ) activity. *Bioinformation* 9(15): 782-787 (2013); PMID: PMC3766311
- Rizky Nurdiansyah, Sri Rahayu Lestari, *Fatchiyah Fatchiyah*. Kajian Nutrigenomik: Penghambatan Igf-1 Pada Adipogenesis Jaringan Lemak Viseral Tikus Dengan Ekstrak Kulit Rambutan. *Biotropika* 2013, 1(6):
- Miggy Uri Karitas, *Fatchiyah Fatchiyah*. Profil Protein Yogurt Susu Kambing PE dengan Kultur Tunggal Pada 30-60 kDa dengan SDS-PAGE. *Biotropika* 2013, 1(2): 65-69
- Firli Rahmah Primula Dewi, Muhammad Darwin Prenggono, *Fatchiyah Fatchiyah*. 2013. Impact of Anemia on Erythropoietin and Erythropoietin Receptor Expression: Correlation with The Proliferation of Breast Cancer Cells. *J Exp. Integr. Med*. 2013; 3(3): 199-204 DOI 10.5455/jeim.010513.or.069
- Achmad Rofi'i, *Fatchiyah Fatchiyah*, Pudji Rahayu, Ruslan Muhyi, Sutiman Bambang

- Sumitro. 2013. Reactive Oxygen Species, Nf-kB, And P53 Levels In Tissue Of Undifferentiated Nasopharyngeal Carcinoma. *Oxid. Antioxid. Med. Sci.* 2013; 2(2):143-147; 2013, 2(2):143-147 DOI 10.5455/oams.300313.or.033
- Ismi Kurnia Budiarti, Masdiana C. Padaga, *Fatchiyah Fatchiyah*. 2013. Nutritional Composition and Protein Profile of Goat Yogurt PE with Double Culture between *Streptococcus thermophilus* and *Lactobacillus* species. *Cukurova Med J.* 38 (4): 681-686
- Lulus K. Khoiriyah & *Fatchiyah*. 2013. Characterization of Biochemistry & Protein Profile of Goat Milk Fermented by BAL. *JELS 2 (1)*1-6
- Rista Nikmatu Rohmah\*, Soraya Widyasari\*, Aulanni'am, and *Fatchiyah*. 2013. DNA recombinant construction of hGAD65 gene into plasmid pET28a1 *J. Biotechnology, June 2013*
- Raharjo SJ. and *Fatchiyah F.* 2013. Virtual Screening of Coumpounds from the Patchouli Oli of Pogostemon Herba for Cox-1 Inhibition. *Bioinformation 9(6): 321 – 324*
- Fajri WNL., Rofi'i A., and *Fatchiyah*. 2013. BZLF1 Expression of EBV with PARP-1 Regulation on Nasopharyngeal Carcinoma Tissues. *JTROLIS, 2(4)*
- Firdausi L., Indra, MR., and *Fatchiyah*. 2012. Inhibition of Igf-1r Binding Igf-1 by Cathecin in Black Tea Solution. *JTROLIS,2(3): 132 – 135*
- Prenggono MD., Kalim H, Soeatmadji DW., Sudoyo AW and *Fatchiyah*. 2012. Hypoxia-inducible Factor 1 $\alpha$  Expression Induce Epo and VEGF Expression on Breast Cancer with Anemia. *Jurnal Kedokteran Brawijaya, 17 (2): 77 – 82*
- Herlina E, *Fatchiyah*, and Indra MR. Pengaruh Sari Seduh Teh Hitam (*Camelia sinensis*) Terhadap Penghambatan PPAR $\gamma$  Sel Adiposa Jaringan Lemak Visera *Rattus novergicus* strain Winstar. *J. Farmasains UMM 1: 426 - 518.*
- Fatchiyah*, Widyarti S., Mustofa I., Kusumowardhani IY., Fatimah R., Firdausi L., Ayu S. P., Aulani'am and Soeatmadji DW. –Point Mutations to Frameshift Mutation of INSR Genes Exon 22 of Diabetes Mellitus Patients!. *Berkala Penelitian Hayati, 14 (2): 143 – 145*
- Fatchiyah*, Mohamad Zubair and Ken-Ichiro Morohashi. –Revealing Spleen Ad4BP/SF1 Knockout Mouse by BAC-AdBP-tTAZ Transgenel. *IFMBE Springer, Berlin, Vol 23: 1920-1923, DOI 10.1007/978-3-540-92841-6\_477*
- Fatchiyah*, Rahayu S, Indriati DW, Indriani DW. dan Yunita A.. –Mitokondria DNA Analysis of Banteng (*Bos Javanicus*) from National Park of Alas Purwo Forest are Early Mapping of Endogenous Genes Resources" *J. Natural 11(1): 1-6*
- Fatchiyah*, M. Zubair, Y. Shima,, S. Oka, S. Ishihara, Y. Fukui-Katoh and Ken-ichirou Morohashi. Differential Gene Dosage effects of Ad4BP/SF-1 on target tissue development. *Elsevier: BBRC 341 (2006) 1036–1045*
- Soeatmadji WS., Aulaniam, *Fatchiyah* and Sumitro SB.. Detection of GAD65 autoantibodies of type-1 diabetes using anti GAD65 autoantibodies produced from bovine brain tissue. *Medical Journal of Indonesia 2005, 14(4): 195-266*
- Fatchiyah*, Soeatmadji DW, Hakim L and Rahayu M. Analysis of HLA DQB1 gene on Indonesian Population by PCR technique. *J of Natural 1998 2(1): 1-5*
- Fatchiyah*, Soeatmadji DW. and Hakim L. Dot blot analysis of codon 57 HLA DQB1 gene with 5703 (GAC) and 5704 (GAT) oligoprobes. *J of Natural 1998 2(1): 6-14.*
- Sumitro, S.B., M. Handaru and *Fatchiyah*, 1998. Possible role of small heat shock protein HSP25 in development of neoplasticity of proliferate lung cells. *Berkala Kedokteran XIII (3): 21-27*

## Books

- Fatchiyah.** 2015. **Prinsip Dasar Bioinformatika.** UB Press. 2015. ISBN 978-602-203-735-4.

- E. Laras A., **Fatchiyah**, M.Rifa'i, Sri Widyarti. 2014. **Genetics**. Departement of Biology, Faculty of Science, Brawijaya
- Fatchiyah**. Nutrigenomik dan Proteomik. ISBN: 979-508-292-2. Lembaga Penerbitan Fakultas Pertanian, UB: Malang.
- Fatchiyah**. Pengantar Bioinformatika Kedokteran. ISBN: 979-508-268-X Lembaga Penerbitan Fakultas Pertanian, UB : Malang.
- Fatchiyah**, Estri L. Arumingtyas, Sri widyarti, Sri rahayu. Biologi Molekuler: Prinsip Dasar Analisis, ISBN:978-979-009-477.5 (BEST SELLER BOOK 2013-2014), Erlangga: Jakarta.
- Fatchiyah**. Nutrigenomik Dalam Bahasa DNA.UB. Malang.
- Fatchiyah**. Buku Praktis: Mengenal *Polymerase Chain Reaction* Dasar teknik Amplifikasi DNA & Aplikasinya. UB, Malang.
- Fatchiyah**, Estri L. Arumingtyas, Sri widyarti, Sri Rahayu. Dasar-dasar Analisis Biologi Molekuler. Penerbit FP UB.