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## Widodo

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**Place of Birth** Bojonegoro, Indonesia

**Date of Birth** August 11, 1973

**Nationality** Indonesia

**Interest**

- Biomedical Science
- Biomarker Identification
- Protein Recombinant
- Molecular Genetics
- Bioinformatics
- Oncology

**Education**

**Brawijaya University**  
1998

**Institute Technology of Bandung**  
2001

**Tsukuba University**  
2008

**Experience** **Department of Biology, Brawijaya University**  
2009– 2014  
Head of Department

**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

- [Stress chaperone mortalin regulates human melanogenesis. Mitochondrion. 2015; (Submitted)
- Association between G-197A gene polymorphism of IL-17A with changes in protein interaction of IL-17A, levels of urinary IL-17 and degree of lupus nephritis abnormality. Comparative Clinical Pathology (Springer). 2015; (Submitted)
- Stress chaperone mortalin induces epithelial-mesenchymal transition and contributes to metastasis of breast cancer. Oncogene. 2015; (Submitted)
- Role of lipoprotein-associated phospholipase A2 activity in sensitivity of Framingham Score for the risk of acute myocardial infarction in Indonesian male patients. The Egyptian Heart Journal (Elsevier). 2015; (Submitted)
- Characterization of new goat milk yogurt-derived antihypertensive peptide in vitro and in vivo. Journal of Agricultural and Food Chemistry (ACS). 2015; (Submitted)
- A new nucleotide variant G1358A potentially change growth differentiation factor 9 profile that may affect the reproduction performance of Friesian Holstein cattle. Asian Pacific Journal of Reproduction. 2015; (Accepted)
- Rahayu S, Widodo N, Hoshino Y, Sato E. BMP-15 m-RNA expression of mouse oocytes in vitro maturation in different droplet medium volume. Asian Pacific J Reprod. 2015;4(4):258-26. doi:10.1016/j.apjr.2015.07.002.
- Purwaningroom DLP, Saifurrohman M, Widodo N, Putri JF, Lukitasari M. Alteration of splicing pattern on angiotensin converting enzyme gene due to the insertion of Alu elements. Int J Comput Biol. 2015;4(2):53-58.
- Lukitasari M, Rohman MS, Madjidi A, Putri VYS, Supono, Yunita L, Kuncahyo BH, Karolina W, Anggraini YFGR, Sjughiarto MA, Sari L, Haryati L, Kurniawan A, Widodo N. blood pressure reduction with angiotensin receptor blocker therapy in Ren C-5312t genetic variant. J Hypertens (Wolters Kluwer Heal. 2015;33(e37).
- Ayukusuma AR, Rohman MS, Lukitasari M, Supono, Yunita L, Setyasari A, Karolina W, Valerina YSP, Madjidi A, Kurniawan A, Widodo N. No difference of serum IL-6 level among dipper and non dipper hypertensive patients. J Hypertens (Wolters Kluwer Heal. 2015;33(e37).
- Supono, Rohman MS, Anggita, Yunita L, Setyasari A, Kuncahyo BH, Karolina W, Valerina YP, Madjidi A, Lukitasari M, Kurniawan A, Widodo N. Serum renin level in left ventricular hypertrophy and dipping hypertensive patients. J Hypertens (Wolters Kluwer Heal. 2015;33(e38).
- Maslahah I, Rohman MS, Widodo N, Endharti AT, Utomo D. Genetic variant of C-5434T REN enhancer on serum renin levels and binding pattern of signal transducers and activators transcription 3. Int J Hypertens. 2015;2015.
- Toha AHA, Sumitro SB, Hakim L. Color diversity and distribution of sea urchin *Tripneustes gratilla* in Cenderawasih Bay ecoregion of Papua, Indonesia. Egypt J Aquat Res. 2015.
- Fatchiyah F, Hardiyanti F, Widodo N. Selective inhibition on RAGE-binding AGEs required by bioactive peptide Alpha-S2 case in protein from goat Ethawah breed milk: Study of Biological Modeling. Acta Inform Med. 2015;23(2):90-96.
- Rifa'i M, Widyarti S, Widodo N. Conserved peptide with therapeutic potential to overcome nasopharyngeal carcinoma. Int Med J Malaysia. 2014;13(1).
- Rifa'i M, Widodo N. Significance of propolis administration for homeostasis of CD4+CD25+ immunoregulatory T cells controlling hyperglycemia. Springerplus. 2014;3(1):526.
- Susianti H, Handono K, Purnomo BB, Widodo N, Gunawan A, Kalim H. Changes to

- signal peptide and the level of transforming growth factor-  $\beta$ 1 due to T869C polymorphism of TGF  $\beta$ 1 associated with lupus renal fibrosis. Springerplus. 2014;3(1):514.
- Makiyah SNN, Noor Z, Widodo, Rifa'i M, Djati MS. Ethanol extracts of tubers *Dioscorea alata* L. as antiallergic agent on mice Balb/C induced with ovalbumin. Int J Pharma Bio Sci. 2014;5(3):214-220.
- Satwika D, Rifa'i M, Widodo. Acid pH role on elevation of tlr2 and decreasing IFN- $\gamma$  and TNF- $\alpha$  in dental caries at pre-school children. Int J Clin Dent. 2014;7(3):247-254.
- Wadhwa R, Singh R, Gao R, Shah N, Widodo N, Nakamoto T, Ishida Y, Terao K, Kaul SC. Water extract of Ashwagandha leaves has anticancer activity: identification of an active component and its mechanism of action. PLoS One. 2013;8(10):e77189.
- Lukitasari M, Putri JF, Choiriyah M, Rohman MS, Widodo N. Genetic variant of C-5312T can change binding pattern of Sp1 to renin enhancer that are very likely to affect renin gene expression. Bioinformation. 2013;9(20):1010-1012.
- Gao R, Yu Y, Inoue A, Widodo N, Kaul SC, Wadhwa R. Heterogeneous nuclear ribonucleoprotein k (hnRNP-K) promotes tumor metastasis by induction of genes involved in extracellular matrix, cell movement, and angiogenesis. J Biol Chem. 2013;288(21):15046-15056.
- Mahrus, Sumitro SB, Utomo DH, Sartimbul A, Toha AH, Widodo N. Genetic relationship of *Sardinella lemuru* from Lombok strait with fish rich in omega-3 fatty acid. Bioinformation. 2012;8(25):1271-1276.
- Takemasa T, Yakushiji N, Kikuchi DM, Deocaris C, Widodo, Machida M, Kiyosawa H. Fundamental study of detection of muscle hypertrophy-oriented gene doping by myostatin knock down using RNA interference. J Sports Sci Med. 2012;11(2):294-303.
- Sitompul LS, Widodo N, Djati MS, Utomo DH. Epitope mapping of gp350/220 conserved domain of epstein barr virus to develop nasopharyngeal carcinoma (NPC) vaccine. Bioinformation. 2012;8(10):479-482.
- Utomo DH, Widodo N, Rifa'i M. Identifications small molecules inhibitor of p53-mortalin complex for cancer drug using virtual screening. Bioinformation. 2012;8(9):426-429.
- Rifa'i M, Widodo. CD4+CD25+ regulatory T cells prevent lethal phenotype in CD122 deficient mice. J Vet. 2011;12(3):166-172.
- Grover A, Priyandoko D, Gao R, Shandilya A, Widodo N, Bisaria VS, Kaul SC, Wadhwa R, Sundar D. Withanone binds to mortalin and abrogates mortalin-p53 complex: computational and experimental evidence. Int J Biochem Cell Biol. 2012;44(3):496-504.
- Widodo N, Priyandoko D, Deocaris CC, Wadhwa R, Kaul SC. Assessment of bio-activities of the crude extract and components of Withania somnifera leaves by bioinformatics. J Trop Life Sci. 2011;1(1):1-4.
- Widodo N, Priyandoko D, Shah N, Wadhwa R, Kaul SC. Selective killing of cancer cells by Ashwagandha leaf extract and its component Withanone involves ROS signaling. PLoS One. 2010;5(10):e13536.
- Cheung CTY, Hasan MK, Widodo N, Kaul SC, Wadhwa R. CARF: an emerging regulator of p53 tumor suppressor and senescence pathway. Mech Ageing Dev. 2009;130(1-2):18-23.
- Widodo N, Shah N, Priyandoko D, Ishii T, Kaul SC, Wadhwa R. Deceleration of senescence in normal human fibroblasts by withanone extracted from ashwagandha leaves. Journals Gerontol Ser A Biol Sci Med Sci. 2009;64A(10):1031-1038.
- Widodo N, Takagi Y, Shrestha BG, Ishii T, Kaul SC, Wadhwa R. Selective killing of cancer cells by leaf extract of Ashwagandha: Components, activity and pathway

- analyses. *Cancer Lett.* 2008;262(1):37-47.
- Deocaris CC, Widodo N, Wadhwa R, Kaul SC. Merger of ayurveda and tissue culture-based functional genomics: inspirations from systems biology. *J Transl Med.* 2008;6:14.
- Widodo N, Deocaris CC, Kaur K, Hasan K, Yaguchi T, Yamasaki K, Sugihara T, Ishii T, Wadhwa R, Kaul SC. Stress chaperones, mortalin, and pex19p mediate 5-aza-2' deoxycytidine-induced senescence of cancer cells by DNA methylation-independent pathway. *J Gerontol A Biol Sci Med Sci.* 2007;62(3):246-255.
- Widodo N, Kaur K, Shrestha BG, Takagi Y, Ishii T, Wadhwa R, Kaul SC. Selective killing of cancer cells by leaf extract of Ashwagandha: identification of a tumor-inhibitory factor and the first molecular insights to its effect. *Clin Cancer Res.* 2007;13(7):2298-2306.
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- Kaur K, Widodo N, Nagpal A, Kaul SC, Wadhwa R. Sensitization of human cancer cells to anti-cancer drugs by leaf extract of Ashwagandha (LASH). *Tiss Cult Res Commun.* 2007;26(4):193-199.
- Wadhwa R, Deocaris CC, Widodo N, Taira K, Kaul SC. Imminent approaches towards molecular interventions in ageing. *Mech Ageing Dev.* 2005;126(4):481-490.

## Books

- Widodo N. 2014. Protein modeling, docking and network. -
- Widodo N. 2014. Sequencing data, genetic distance and phylogenetic analysis. Indonesia Institute of Bioinformatics, Malang.
- Widodo N. 2014. Molecular docking. Indonesia Institute of Bioinformatics, Malang.
- Widodo N. 2014. Hiu paus di Taman Nasional Teluk Cenderawasih. -
- Widodo N. 2014. Molecular modeling. Indonesia Institute of Bioinformatics, Malang.