



# Dwi Winarni

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## Personal Information

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## Employment

**2003** Associate Professor  
*MENDIKNAS (National Ministry of Education)*

**2001** Assistant Professor  
*MENDIKNAS (National Ministry of Education)*

**1996** Lecturer  
*MENDIKBUD (Ministry of Education and Culture)*

## Education

**1983 - 1987** Bachelor of Science (S.Si)  
*Universitas Airlangga - Surabaya*  
Major in Biology

**1993 - 1996** Master of Science (M.Si)  
*Universitas Gadjah Mada - Surabaya*  
Major in Biology

**2004 - 2008** Doctorate of Science (Dr.)  
*Universitas Airlangga - Surabaya*  
Major in Biology

## Public Service Experience

**2002** The training of making and examination process of Mitosis Cell sample of Roots for public middle school's biology teachers in Sidoarjo  
Faculty of Mathematic and Sciences, Universitas Airlangga

**2003** Seminar and training for making and examination technique of chicken embryo sample

- Biology Department, Faculty of Mathematic and Sciences, Universitas Airlangga
- 2004** The training for East Java Team in National biology Olympiad for High School
- 2005** Training and seminar of Molecular biology for biology Olympiad preparation and regular teaching in class  
Biology Department, Faculty of Mathematic and Sciences, Universitas Airlangga
- 2007** Training for Biology technician for SMA Negeri 3 Madiun (public high school)'s laboratory technicians.
- 2008** Continuous Education Program : Training for teacher in order to fulfil the competence standard of middle school and high school teacher in Surabaya (as instructor)  
Faculty of Mathematic and Sciences, Universitas Airlangga
- 2009** Training of Biology Olympiade for SMA Katolik Santa Agnes Surabaya (private high school)
- 2009** National Seminar on Research Grant (Dikti-World Bank) – as reviewer
- 2010** Training of Biology Olympiad for SMAN Krian Sidoarjo (Public high school)
- 2010** Biology Department, Faculty of Science and Technology, Universitas Airlangga
- 2010** Reviewer for academic handbook for high school biology in “Public Academic Handbook and Curriculum Organizing” seminar in Surabaya
- 2010** Surabaya Government
- 2011** Training of Biology Olympiad for SMAN 2 Surabaya (Public high school)
- 2011** The Competence test of Science Computer Based for SMA SBI (international high school) in East Java
- 2012** Department of Education of East Java’s government
- 2012** Training of National Science Olympiad in district level for SMPN 1 public middle school) and SMAN 1 (public high school) in Gresik
- 2012** Training of Biology Olympiad for SMAN Sumenep (public high school), SMPN Gresik and Jombang (public middle school) for Province level
- 2013** Training of nata de Coco making for female farmer in Kebraon village, Tulangan, Sidoarjo.
- 2014** Biology Department, Faculty of Science and Technology, Universitas Airlangga : Rp 8.000.000,-
- 2014** Training of Histology Sample making process for teacher and students of PGRI Nusantara University Kediri
- 2014** Training of Trash Management: implementation of trash bank, for RT 1A and 1B/ RW 2 people in Keputih, Sukolilo
- 2015** Biology Department, Faculty of Science and Technology, Universitas Airlangga : Rp 8.000.000,-
- 2015** Training of nata de Coco making in Sedati, Sidoarjo.
- 2015** Biology Department, Faculty of Science and Technology, Universitas Airlangga : Rp 8.000.000,-
- 2002** Training of nata de Coco making for female farmer in Kebraon village, Tulangan, Sidoarjo.

## Organization

1991 – Present Indonesian Biology Association (Perhimpunan Biologi Indonesia/PBI)

## Research Interest

- Health and Medicine
- Animal Biodiversity

## Research Experience

No.	Years	Title
1	2000	The effect of several fraction of methanol extract from Java ginseng ( <i>Talinum Paniculatum Gaertn</i> ) over Testis Protein Synthesis IPD/ DGHE Grants : Rp 40.000.000,-
2	2001	The effect of Java ginseng root over the barrier of Hemoglobin Synthesis caused by Litmud Waste DGHE Grant : Rp 20.000.000,-
3	2001	The effect of Java ginseng root extract on Humoral Immune response over Bacteria IPD/DGHE Grant Rp 40.000.000,-
4	2003	The Effect of Benzopyrene on the low performance of Immunologic System of mice's gastric mucosa DIK-RUTIN Grant : Rp 10.000.000,-
5	2004	The protein profile of testis and total number of cholesterol level of testosterone during the application of Java ginseng root extract and its polar fraction Research grant Due Like Batch III : Rp 15.000.000,-
6	2006	The effect of Java and Korea ginseng root extract on the changes of male mice behavior DIPA PNBP-Universitas Airlangga Grant : Rp 20.000.000,-
7	2008	The role of $\beta$ -Sitosterol in Java ginseng root toward Libido DIPA PNBP Universitas Airlangga Grant : Rp 20.000.000,-
8	2008	The androgenic potential of Java ginseng Root on the low condition of testosterone Self-funding : Rp 100.000.000
9	2009	The Exploration of Sea Cucumbers potential in Pantai Timur Surabaya as a natural immune modulator toward <i>Mycobacterium Tuberculosis</i> National Competitive Grant based on Priority/ DGHE Rp 85.000.000,-
10	2009	The experimental test on the use of electromagnetic wave for type 2 Diabetes Mellitus therapy

		Curesonic Grant : Rp 50.000.000,-
11	2010	The exploration of Sea Cucumbers potential in Pantai Timur Surabaya as natural immune modulator toward <i>Mycobacterium tuberculosis</i> (2 <sup>nd</sup> year) National Strategic Grant/DGHE : Rp 80.000.000,-
12	2010	The experimental test on Sea Cucumbers potential in Pantai Timur Surabaya as natural immune modulator toward Bacterial infection Zoology Research Grant : Rp 5.000.000,-
13	2011	The reproduction pattern of Sea Cucumbers <i>Phyllophorus Sp</i> and <i>Paracaudina australis</i> in Pantai Timur Surabaya Self funding : Rp 5.000.000,-
14	2012	The antioxidant potential of local Sea Cucumbers Pamurbaya <i>Paracaudina australis</i> to fix the sensitivity of adipocyte and muscle cell toward insulin on Diabetes Mellitus (1 <sup>st</sup> year) University Featured Research /DGHE Grant : Rp 35.000.000,-
15	2012	The diagnostic system plans and economical and non-invasive therapy of skin cancer based on Nano laser speckle Imaging University Featured Research / DGHE Grant : Rp 85.000.000,-
16	2013	The antioxidant potential of local Sea Cucumbers Pamurbaya <i>Paracaudina australis</i> to fix the sensitivity of adipocyte and muscle cell toward insulin on Diabetes Mellitus (1 <sup>st</sup> year) University Featured Research / DGHE Grant : Rp 60.000.000,-
17	2013	The diagnostic system plans and economical and non-invasive therapy of skin cancer based on Nano laser speckle Imaging University Featured Research / DGHE Grant : Rp 85.000.000,-
18	2014	Antioxidant potential of Mangosteen ( <i>Garcinia mangostana</i> , L) pericarp to fix the sensitivity of luric muscle toward insulin (1 <sup>st</sup> year) University Featured Research /DGHE Grant : Rp. 50.000.000,-
19	2015	Tentacle Structure Of Sea Cucumber <i>Paracaudina australis</i> From Madura Strait Indonesia Self-funding Rp 15.000.000,-
20	2015	Antioxidant potential of Mangosteen ( <i>Garcinia mangostana</i> , L) pericarp to fix the sensitivity of luric muscle toward insulin (2 <sup>nd</sup> year) University Featured Research /DGHE Grant : Rp. 50.000.000,-
21	2015	The biodiversity of ossicle on Sea Cucumbers <i>Colochirus quadrangularis</i> in Madura Strait Self-funding: Rp 10.000.000,-

## Publication

- Bioaccumulation, Elimination, and Toxic Effect of Cadmium on Structure of Gills and Hepatopancreas of Freshwater Prawn *Macrobrachium sintangese* (De Man, 1898) April 2013, 224:1575 *Water, Air, & Soil Pollution*.
- Pengaruh ekstrak akar ginseng berbagai kadar terhadap sintesis protein serum Vol 6 No 1. (Co Author). 2000. *Berkala Penelitian Hayati*.
- Pengaruh pemberian ekstrak akar ginseng jawa pada respon imun humoral tikus terhadap bakteri. No.1. (Author). 2001. *Berkala penelitian Hayati*. Edisi khusus.
- Imunostimulan ( $\beta$ -glucan) pada ikan nila merah (*Oreochromis sp.*): Neutrofilia dan eosinofilia Vol. 8. No. 1. 2002. *Berkala Penelitian Hayati*.
- Pengaruh ekstrak akar ginseng jawa terhadap hambatan sintesis hemoglobin akibat timbal. Vol 7 No.1. 2002. *Author Jurnal MIPA*.
- Efek ekstrak akar ginseng Jawa dan Korea terhadap Libido mencit jantan pada prakondisi testosteron rendah. Vol. 12. No.2. 2007. *Berkala Penelitian Hayati*.
- Pemulihan kadar testosteron dengan  $\beta$ -sitosterol vol. 8 no 1. 2008. *Majalah Ilmu Faal Indonesia*
- Pengaruh Pemberian Tomat (*Solanum lycopersicum*, L) Terhadap Histologi Kelenjar mammae Mencit Yang diinduksi 7,12 Dimetilben- $\alpha$ -antrasena (DMBA) Vol. 15. No. 2. Juli 2012 *Jurnal Matematika dan Ilmu Pengetahuan Alam (Journal of Mathematics and Science)*
- Struktur Komunitas Teripang Di Pantai Timur Surabaya 17(1)2014 *Jurnal Matematika dan Ilmu Pengetahuan Alam*.
- The Use Of Sea Cucumber *Paracaudina australis* Extract To Improve Glucose Tolerance In Diabetes Mellitus ICOWOBAS RAFFS 2013 Proceedings
- Reproductive Peak, Gonadal Cycle and Gametogenic Cells Determination of Sea Cucumber *Paracaudina australis* from Madura Strait Indonesia International Biology Conference 2014
- Reproductive Biology of Sea Cucumbers *Paracaudina australis* and *Phyllophorus sp* From Surabaya Indonesia. IFS 2012, Can Tho University, Vietnam

## Books

- *Practical Guide to Animal Physiology*. 2015. 55 pages. Department of Biology, Faculty of Science and Technology, Airlangga University
- *Practical Guide to Animal Histology*. 2014. 70 pages. Department of Biology, Faculty of Science and Technology, Airlangga University
- *Practical Guide to Medical Biology*. 2014. 71 pages. Department of Biology, Faculty of Science and Technology, Airlangga University
- *Practical Guide to Micro technique*. 2012. 25 pages. Department of Biology, Faculty of Science and Technology, Airlangga University