



Yosephine Sri Wulan Manuhara

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Personal Information

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Employment

1988 – Present **Permanent Lecturer Staff**
Faculty Of Science And Technology, UNAIR

1995 **Professional Assistant**
Faculty Of Science And Technology, UNAIR

2001 **Lecture**
Faculty Of Science And Technology, UNAIR

2002 **Associate Professor**
Faculty Of Science And Technology, UNAIR

Education

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

1992 – 1994 **Master of Science (M.Si)**
Universitas Gadjah Mada- Surabaya
Major in Health

2001 – 2005 **Doctoral (Dr.)**
Universitas Gadjah Mada – Yogyakarta
Major in Biology

Public Service Experience

2015	Training of liquid organic fertilizer on farmer's group in district Sumberejo, Bojonegoro
2014	Training of molecular biology to improve the Biology alumnus competence, Faculty of science and technology (FST) (as a biology teacher) UNAIR
2013	Training of molecular biology to improve the Biology alumnus competence, Faculty of science and technology (FST) (as a biology teacher) UNAIR
2012	Training of isolation and protoplast fusion for lab-technician Faculty of Techno biology, Surabaya University
2012	Training of orchid culture, FST-UNAIR
2011	Improving the competence of Elementary School teacher in Surabaya on teaching biology FST, UNAIR
2010	Training of plant molecular biology for lab-technician Faculty of Techno biology, Surabaya University

Organization

1995 – Present	Indonesian Biology Association
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Research Interest

- Plant Biotechnology
- Plant Tissue Culture

Research Experience

No.	Years	Title
1	2016	Optimasi Produksi Flavonoid pada Kultur In Vitro Tanaman Sambung Nyawa (<i>Gynura procumbens</i> (Lour.) Merr.) dalam Bioreaktor Perendaman Sementara
2	2016	Transformasi Gen Knat1 Ke Dalam Protocorm Anggrek <i>Dendrobium Lasianthera</i> J. J. Sm. : Upaya Meningkatkan Produksi Bibit
3	2014	Peningkatan Biomassa dan Kadar Saponin Akar Rambut Tanaman Ginseng Jawa (<i>Talinum paniculatum</i> Gaertn) dalam Kultur Cair (Ketua, Tahun ke-2)
4	2014	Aplikasi Elisitor Biotik, Abiotik dan Kombinasinya untuk Meningkatkan Produksi Saponin Ginseng Jawa (<i>Talinum paniculatum</i> Gaertn) Secara In Vitro
5	2013	Peningkatan Biomassa dan Kadar Saponin Akar Rambut Tanaman Ginseng Jawa (<i>Talinum paniculatum</i> Gaertn) dalam Kultur Cair (Ketua, Tahun ke-1)
6	2013	Optimasi Kondisi Akar Adventif <i>Talinum paniculatum</i> Gaertn. Dalam Bioreaktor Bergelembung Tipe Balon
7	2012	Produksi Biomassa dan Saponin Akar Rambut dan Akar Adventif <i>Talinum paniculatum</i> Gaertn. Pada Berbagai Periode Subkultur

8	2011	Pengaruh Subkultur Terhadap Perkembangan dan Produksi Saponin Akar Rambut Tanaman Ginseng Jawa (<i>Talinum paniculatum</i> Gaertn.)
9	2010	Efisiensi Transformasi Tanaman Ginseng Jawa (<i>Talinum paniculatum</i> Gaertn.) menggunakan <i>Agrobacterium rhizogenes</i> untuk Menginduksi Akar Rambut

Publication

- Effect of Sucrose and Potasium Nitrate on Biomass and Saponin Content of *Talinum paniculatum* Gaertn. Hairy Root in Balloon-Type Bubble Bioreactor. 2015. 5(12): 1027-1032 Asian Pasific Journal of Tropical Biomedicine
- Optimization of Culture Conditions of *Talinum paniculatum* Gaertn. Adventitious Roots in Balloon Type Bubble Bioreactor Using Aeration Rate and Initial Inoculum Density. 2015. 8(2): 83-89 Asian Journal of Biological Sciences
- Production of Adventitious Root and Saponin of *Talinum paniculatum* (Jack) Gaertn in Temporary Immersion Bioreactor. 2014. 2(4): 246-250 Scholars Academic Journal of Biosciences
- Potency of Diethilene Triamine Penta Acetic Acid to Improve Cu Absorption by *Crotalaria juncea* from Soil Contaminated Electroplating Waste. 2014. 3(4): 123-130 Journal of Apllied Phytotechnology in Environmental Sanitation
- Effect of Salinity and *Gandasil D* on *Spyrogyra* Biomassa in Non Aerated Culture. 2013. 2(2):53-58 Journal of Applied Phytotechnology and Environment Sanitation
- Effect of Drought Stress Induced by Polyethylen Glycol (PEG6000) on Callus of *Hellianthus anuus* cv. 2013. 2(3):73-78 Journal of Applied Phytotechnology in Environmental Sanitation
- Effect of Aeration and Inoculum Density on Biomass and Saponin Content of *Talinum paniculatum* Gaertn. Hairy Root in Balloon-Type Bubble Bioreactor . 2012. 2(4):47-52 Journal of Pharmaceutical and Biomedical Sciences
- Isolasi dan Karakterisasi Enzim β -1,3- endoglukanase dari Tanaman Kubis (*Brassica oleracea* cv. capitata L.). 2010. 15(2):99-104 Berkala Penelitian Hayati
- Perbanyakkan *Anthurium plowmanii* Croat Menggunakan Eksplan Daun dan Tangkai Daun Secara In Vitro. 2010. 13(1): 26-33 Jurnal Matematika dan Ilmu Pengetahuan Alam

Books

- Kapita Seleкта Kultur Jaringan Tumbuhan. 2014 : Airlangga University Press