

**KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI
UNIVERSITAS NEGERI YOGYAKARTA**

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STAFF HANDBOOK

A. Personal Information

| | | |
|-----|---------------------|--|
| 1. | Full Name | Dr. Ixora Sartika Mercuriani, M.Si |
| 2. | Functional Position | Senior Lecturer |
| 3. | NIP (ID Number) | 197309232005012001 |
| 4. | Place/Date of Birth | Semarang, 23 September 1973 |
| 5. | Home Address | Jl. Klaseman I/C-06, RT05/RW38, Sleman 55581 |
| 6. | Home/Fax. | 0274-4463273 |
| 7. | Mobile | 081328306610 |
| 8. | Office Address | Jl. Karangmalang, Yogyakarta |
| 9. | Office/Fax. | 0274-586168/0274-586500 |
| 10. | E-mail | ixomerc@uny.ac.id |
| 11. | Field of Expertise | Biotechnology and Molecular Genetics |
| 12. | Subjects Taught | a. Biotechnology |
| | | b. Plant Tissue Culture |
| | | c. Molecular and Cellular Biology |
| | | d. Biochemistry |
| | | e. Practicum of Biotechnology |
| | | f. Practicum of Plant Tissue Culture |
| | | g. Practicum of Molecular and Cellular Biology |
| | | h. Practicum of Biochemistry |

B. Educational Background

| Program | S1 (Bachelor) | S2 (Master) | S3 (Doctorate) |
|------------------------------|--|--|--|
| 1. University | Universitas Kristen Satya Wacana | Institut Pertanian Bogor | Universitas Gadjah Mada |
| 2. Major | Agronomy | Biotechnology | Biotechnology |
| 3. Year Admitted | | | |
| 4. Year Graduated | 1997 | 2004 | 2014 |
| 5. Thesis/Dissertation Title | Uji Varietas Cabai (<i>Capsicum annum</i>) di Ungaran, Jawa Tengah | Isolasi dan Pemetaan Gen A36 dari Tanaman Kedelai (<i>Glycine max</i>) | Analisis Fungsi Gen Phalaenopsis amabilis FT1 (PaFT1) Pada Tanaman Anggrek Alam Phalaenopsis amabilis (L.) Blume |

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|---------------------|-------------|-----------------------------|-----------------------------------|
| 6. Advisor/Promoter | Ir. Sugandi | Prof. Dr. Suharsono, DEA | Dr. Endang Semiarti, M.S, M.Sc |
|---------------------|-------------|-----------------------------|-----------------------------------|

C. Training Experiences

| No | Training | Organizer | Year | Certification |
|----|---|---|------|---------------|
| 1. | Pelatihan Pengembangan, Pengelolaan, Dan Instrumentasi Laboratorium Biologi | Non Degree Training IDB, bertempat di Pusat Penelitian Bioteknologi dan Bioindustri | 2015 | Yes |
| 2. | Bioinformatika aplikatif dalam riset pertanian dan kesehatan | Pusat Penelitian Bioteknologi dan Bioindustri Indonesia | 2017 | Yes |
| 3. | Pelatihan Standar | LPPMP, UNY | 2017 | Yes |
| 4. | Pelatihan Standar Penjaminan Mutu Internal | LPPMP, UNY | 2018 | Yes |
| 5. | Pelatihan Genome Editing, Crispr Cas9 | Fakultas Biologi UGM | 2018 | Yes |

D. Research Experiences

| No | Year | Topic | Funding | |
|----|------|---|----------------------------|----------------------|
| | | | Source | Amount (Million IDR) |
| 1. | 2012 | Peningkatan Mutu Tanaman Anggrek Alam Phalaenopsis amabilis (L.) Blume dengan Bioteknologi (Tahun ke-1) | Hibah STRANAS 2012 (DIKTI) | 97 |
| 2. | 2013 | Peningkatan Mutu Tanaman Anggrek Alam Phalaenopsis amabilis (L.) Blume dengan Bioteknologi (Tahun ke-2) | Hibah STRANAS 2013 (DIKTI) | 95 |
| 3. | 2014 | Peningkatan Mutu Tanaman Anggrek Alam Phalaenopsis amabilis (L.) Blume dengan Bioteknologi (Tahun ke-3) | Hibah STRANAS 2014 (DIKTI) | 95 |

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|----|------|--|---------------------------------|----|
| 4. | 2016 | Peningkatan Efisiensi Mikropropagasi dengan Penambahan Bahan Organik pada Medium Kultur In Vitro Anggrek Dendrobium dan Rhynchostylis | DIPA FAKULTAS 2016 (FMIPA UNY) | 10 |
| 5. | 2017 | Peningkatan Ukuran Pseudobulb Melalui Peningkatan Konsentrasi Sukrosa Dan Fosfat Pada Medium Kultur In Vitro Anggrek Dendrobium Dan Cattleya | DIPA FAKULTAS 2017 (FMIPA UNY) | 10 |
| 6. | 2018 | Karakterisasi Morfologi, Anatomi, Kandungan Metabolit Sekunder Dan Molekular Anggrek Rhynchostylis retusa (L.) Blume | DIPA FAKULTAS 2018 (FMIPA UNY) | 15 |
| 7 | 2019 | Optimasi medium kultur in vitro alternatif berbasis pupuk untuk perbanyak tanaman anggrek | DIPA UNY 2019 | 25 |
| 8 | 2019 | Kloning gena bakteri asam laktat (BAL) dengan Menggunakan metode amplifikasi secara in vitro | DIPA FAKULTAS 2019 (FMIPA) UNY) | 18 |

E. Community Services

| No | Year | Activity | Funding | |
|----|------|---|------------------------------|----------------------|
| | | | Source | Amount (Million IDR) |
| 1. | 2014 | Pelatihan Budidaya Anggrek | Fakultas Pertanian UJB | 5 |
| 2. | 2015 | Seminar dan Pelatihan Budidaya Anggrek | Fakultas Biologi UGM | 10 |
| 3. | 2015 | Pembinaan OSN di SMAN II Yogyakarta | SMAN II | 0.3 |
| 4. | 2015 | Pembinaan OSN di SMAN I Kalasan | SMAN I Kalasan | 0.3 |
| 5. | 2016 | Pembinaan OSN di SMAN I Kalasan | SMAN I | 0.3 |
| 6. | 2016 | Pembinaan OSN di SMAN 8 Yogyakarta | SMAN 8 Yogyakarta | 0.3 |
| 7. | 2016 | Pembinaan OSN di SMAN I Godean | SMAN I | 0.3 |
| 8. | 2016 | Pengayaan Materi Bioteknologi untuk Guru-guru MGMP Biologi Kulonprogo DIY | MGMP Biologi Kulonprogo, DIY | |

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|-----|------|--|--|------|
| 9. | 2016 | Pengenalan Keanekaragaman Jenis Anggrek dan Potensi Bisnisnya | DIPA Fakultas 2016 (FMIPA UNY) | 5 |
| 10. | 2017 | Pelatihan Teknik Dasar Kultur In Vito | DIPA Fakultas 2017 (FMIPA UNY) | 5 |
| 11. | 2017 | Pelatihan Perawatan dan Pengendalian Hama dan Penyakit Anggrek | DIPA Fakultas 2017 (FMIPA UNY) | 5 |
| 12. | 2018 | Pelatihan Kultur In Vitro Sederhana (Skala Home Industry) untuk Perbanyak Bibit Anggrek bagi Petani Anggrek DIY | DIPA Fakultas 2018 (FMIPA UNY) | 4.5 |
| 13. | 2019 | Pelatihan Pengenalan dan Pemeliharaan Anggrek (Narasumber) | Dinas Pertanian dan Ketahanan Pangan DIY | 0.75 |
| 14. | 2019 | Pelatihan Budidaya Tanaman Anggrek | Dinas Pertanian dan Pangan Kota Magelang | 1.5 |
| 15 | 2019 | Penerapan Vaksin <i>Newcastle Disease</i> (ND) Rekombinan Secara Terprogram Untuk Peningkatan Kekebalan Ayam Kampung (<i>Gallus Domesticus</i>) Di Keputren Bantul | DIPA Fakultas 2018 (FMIPA UNY) | 4.5 |
| 16 | 2019 | Penyuluhan budidaya anggrek hasil penelitian optimasi kultur in vitro untuk guru dan siswa SMP Negeri 5 Semarang | Pascasarjana UNY | 12.5 |

F. International Conventions/Workshops/Seminars

| No | International Convention/Workshop /Seminar | Year | Attending as |
|----|--|------|-----------------|
| 1. | International Conference on Biological Sciences (ICBS) | 2013 | Paper Presenter |
| 2. | International Conference on Mathematics and Natural Sciences (ICMNS), Institut Teknologi Bandung (ITB) | 2014 | Paper Presenter |
| 3. | International Conference on Mathematics and Natural Science (ICMNS), Institut Teknologi Bandung (ITB) | 2014 | Paper Presenter |
| 4. | 3 th International Conference on Research, Implementation, and Education of Mathematics and Science | 2015 | Paper Presenter |

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|----|--|------|-----------------|
| 5. | 4 th International Conference on Research, Implementation, and Education of Mathematics and Science | 2016 | Participant |
| 6. | 5 th International Conference on Research, Implementation, and Education of Mathematics and Science | 2017 | Participant |
| 7. | 6 th International Conference on Research, Implementation, and Education of Mathematics and Science | 2018 | Paper Presenter |
| 8. | The International Seminar On Bioscience and Biological Education | 2018 | Paper Presenter |

G. Local and/or National Conventions/Workshops/Seminars

| No | Local and/or National Convention/Workshop/Seminar | Year | Attending as |
|----|--|------|-----------------|
| 1. | Seminar Nasional Biologi, Jurusan Pendidikan Biologi FMIPA UNY Analisis Variasi Sekuen Gen Chalcone Synthase (CHS) dan Potensi Pemanfaatannya | 2016 | Paper Presenter |

H. Publications in International Journals

| No | Title | Year | Journal/Edition |
|----|---|------|--|
| 1. | Dynamic Expression of POH1 Gene in Shoot Development During In Vitro Culture of Phalaenopsis Orchid | 2016 | AIP Conference Proceedings 1744, 020019 (2016) |
| 2. | Genetic similarity analysis of Vanda tricolor Lindley var. Suavis orchids using OPU 03 and OPU 16 RAPD marker | 2018 | IOP Conf. Series: Earth and Environmental Science 183 (2018) 012005 doi :10.1088/1755-1315/183/1/012005 |
| 3 | Genetic similarity analysis of Rhynchostylis retusa (L.) Blume orchids using OPA 15 and OPA 03 RAPD marker | 2018 | AIP Conference Proceedings 2021, 050005 (2018); doi: 10.1063/1.5062755 |
| 4 | Potency of microbial consortium F14 from three selected bacterial strains (Labrenzia aggregata LBF-1-0016, Pseudomonas balearica LBF 1-0062, and Lysobacter concretio LBF-1-0080) for oil degradation | 2018 | AIP Conference Proceedings 2024, 020043 (2018); doi: 10.1063/1.5064329 |

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|---|---|------|--|
| 5 | Increasing Rhynchosytilis retusa's Callus Formation by Immersing Explant in Ascorbic Acid and Planting on Activated Charcoal Contained Medium | 2019 | IOP Conf. Series: Journal of Physics: Conf. Series 1241 (2019) 012060, IOP Publishing, doi:10.1088/1742-6596/1241/1/012060 |
|---|---|------|--|

I. Publications in National Journals

| No | Judul | Tahun | Jurnal dan Edisi |
|----|--|-------|--|
| 1. | Induksi Pembungaan in Vitro pada Anggrek Bulan <i>Phalaenopsis amabilis</i> (L.) Blume Indonesia | 2014 | Agros Vol. 6 (2): 273 – 277 ISSN 1411-0172 |
| 2. | Pengaruh Cahaya Dan Temperatur Terhadap Pertumbuhan Tunas Dan Profil Protein Tanaman Anggrek <i>Phalaenopsis Amabilis</i> Transgenik Pembawa Gen Ubipro::PaFT Effect | 2016 | Bioeksperimen Volume 2 No.2, (September 2016) ISSN 2460-1365 |
| 3. | Transformasi Gen Pembungaan melalui <i>Agrobacterium tumefaciens</i> Secara In-Vitro pada Tanaman Anggrek <i>Vanda tricolor</i> | 2016 | Agrotrop: Journal on Agriculture Science Vol. 6 No.1 |

J. Books Published

| No | Year | Title | Page Count | Publisher |
|----|------|--|------------|-------------------------------------|
| 1. | 2019 | Inovasi MIPA dan Pendidikan MIPA, Edisi Dies Natalis UNY | 159 | Fakultas MIPA UNY ISBN: 979820529-4 |

K. Structural Positions Held

| No | Position | Year | Additional Notes |
|----|----------|------|------------------|
| 1. | | | |

L. Professional Experiences

| No | Position | Year | Additional Notes |
|----|----------|------------|--------------------|
| 1. | Reviewer | 2016 – now | Jurnal Sains Dasar |

M. Professional Organization Memberships

| No | Organization | Tahun | Additional Notes |
|----|-------------------------------|------------|------------------|
| 1. | Perhimpunan Biologi Indonesia | 2016 - now | Member |
| 2. | Perhimpunan Anggrek Indonesia | 2013 - now | Secretary |
| 3. | | | |

Yogyakarta, 2 July 2019

Dr. Ixora Sartika Mercuriani, M.Si
NIP 197309232005012001