BIODATA DIRI



A. Biodata Diri

1	Nama Lengkap	: Putut Rakhmad Purnama, S.Si., M.Si., Ph.D
2	Tempat & Tanggal Lahir	: Surabaya, 27 Agustus 1991
3	Jenis Kelamin	: Laki-laki
4	Agama	: Islam
5	NIDN	: 0027089112
6	NIP	: 202309092
7	NUPTK	: 8159769670130313
8	Golongan / Pangkat	: IIIb / Penata Muda Tingkat I
9	Jabatan Akademik	: Dosen/Tenaga Pengajar
10	Program Studi	: S1 Biologi
11	Perguruan Tinggi	: Universitas Negeri Surabaya
12	Email	: pututpurnama@unesa.ac.id / pututrakhmad@gmail.com
13	Sinta ID	: 6902131
14	Scopus ID	: 56695000300
15	WOS Researcher ID	: LFF-9470-2024
16	Bidang Keahlian	: Fisiologi Cekaman Tanaman; Bioinformatika; Biologi Molekuler
17	Matakuliah yang diampu	Biologi Sel dan Molekuler
		Bioinformatika
		Bioinformatika Struktural
		Bioinformatika Transkriptomika dan Sistem Biologi
		Biostatistika
		Genetika dan Genomik
		Sistematika Tumbuhan
		Struktur dan Perkembangan Tumbuhan
		Taksonomi Numerik

B. Riwayat Pendidikan

Program	**S1**	**S2**	**S3**
Nama Perguruan Tinggi	Universitas Airlangga	Universitas Airlangga	Chulalongkorn University, Kingdom of Thailand
Bidang Ilmu	Biologi	Biologi	Bioinformatics and Computational Biology
Tahun Masuk	2009	2016	2019
Tahun Lulus	2013	2018	2025
Judul Skrips/ Tesis/ Disertasi	Efek Paparan Logam Berat Timbal (II) Nitrat terhadap Fisiologis Lamun *Thalassia hemprichii* (Ehrenb.) Aschers. dalam Kultur *In Vitro*	Respons *Thalassia hemprichii* (Ehrenb.) Aschers. terhadap Cekaman Suhu Tinggi	Identification and Characterization of Genes Involved in Antioxidant Traits in Local Thai Rice (*Oryza sativa* L.).
Nama Pembimbing/ Promotor	Prof.Hery Purnobasuki, Ph.D	Prof. Dr. Yosephine Sri Wulan Manuhara	Prof. Supachitra Chadchawan, Ph.D.
	Dra. Thin Soedarti, CESA.	Prof.Hery Purnobasuki, Ph.D	Assoc. Prof. Monnat Pongpanich, Ph.D.
			Sittiruk Roytrakul, Ph.D.

C. Pengalaman Penelitian dalam 5 Tahun Terakhir

Tahun	**Judul Penelitian**	**Ketua/ Anggota Tim**	**Sumber Dana**	**Jumlah Pendanan**
2026	Potensi Alelopati Tanaman Manggis hutan (*Garcinia xanthochymus*) sebagai Kandidat Bioherbisida Nabati	Anggota	FKP UNESA	Rp20,000,000
2026	Regenerasi Protokorm secara In Vitro dan Aklimatisasi Planlet Anggrek *Dendrobium sutiknoi*	Anggota	FMIPA UNESA	Rp20,000,000
2025	Over Ekspresi Flowering Time (FT) Gene dengan Teknologi Transgenik untuk Mempercepat Pembungaan pada Varietas Padi Merah dan Hitam Kaya Antioksidan dengan Validasi Bioinformatika dan Multi-Omics	Post-Doctoral Researcher	Post Doctoral Researcher Dalam Negeri Dana EQUITY WCU ITS Tahun 2025/2026	Rp190,000,000
2025	Karakterisasi Tanaman Berpotensi Sumber Fitohormon Alami Pendukung pertanian Berkelanjutan dan Sustainable Development Goals di Indonesia	Anggota	DPPM KEMENDIKTISAINTEK	Rp109,830,000

2025	Karakterisasi Variasi Kultivar Ubi Jalar (*Ipomoea batatas*) Lokal Jawa Timur berdasarkan Morfologi, Anatomi, dan DNA Barcoding untuk Pengembangan Diversifikasi Tanaman Pangan di Indonesia	Ketua	LPPM UNESA	Rp30,000,000
2025	Klasterisasi varietas padi di Indonesia berbasis genotype untuk peningkatan produktivitas sesuai dengan biogeografi Indonesia	Ketua	FMIPA UNESA	Rp20,000,000
2025	Prototipe produk enzim selulase sebagai bagian ransum pakan untuk meningkatkan pertumbuhan vegetatif dan performa reproduksi pada kambing	Anggota	LPPM UNESA	Rp60,000,000
2025	Produksi pakan kambing berprobiotik sesuai usia, jenis kelamin dan kondisi ternak untuk optimalisasi pertumbuhan vegetatif dan peningkatan performa reproduksi	Anggota	LPPM UNESA	Rp75,000,000
2024	Pengembangan Perangkat Pembelajaran Genetika dan Genomik Berbahasa Inggris untuk Memfasilitasi Program In bond di Biologi FMIPA UNESA	Anggota	LPPM UNESA	Rp20,000,000

D. Pengalaman Pengabdian kepada Masyarakat dalam 5 Tahun Terakhir

Tahun	Judul Penelitian	Ketua/Anggota Tim	Sumber Dana	Jumlah Pendanaan
2026	Pemberdayaan Masyarakat Desa Kedunggede Mojokerto melalui Pelatihan Produksi Minuman Fermentasi Tepache sebagai Inovasi Pangan Fungsional dan Peluang Usaha	Ketua	LPPM UNESA	Rp.10.000.000
2025	Pengenalan Bioteknologi Melalui Eksplorasi DNA di MAU Amanatul Ummah 03 Pacet, Mojokerto	Ketua	LPPM UNESA	Rp.10.000.000
2025	PKM Peningkatan Produktivitas Ternak Ruminansia melalui Implementasi Teknologi Sederhana Pembuatan Sinbiotik pada Kelompok Peternak di Kabupaten Jombang Jawa Timur	Anggota	FMIPA UNESA	Rp.10.000.000

E. Aktivitas Ilmiah dalam Seminar atau Workshop

Tanggal	**Judul Kegiatan**	**Penyelenggara**	**Peran**
25-27 September 2026	Genomics Study for Plants	INBIO	Pemateri

23, 30 Mei dan 7 Juni 2026	Online Course Series “Plant Biotechnology”: Quantitative Trait Locus (QTL) Sequencing	INBIO	Pemateri
13 Februari 2026	Research Virtual Bootcamp Batch 18. Biotechnology 101: Agricultural Biotechnology	Generasi Peneliti	Pemateri
27 Desember 2025	Research Academy Ep.28 "Plant Phenotyping: Basic , Trends , and Applications"	Generasi Peneliti	Pemateri
20 November 2025	Seminar Nasional "Bedah KTI & Essay" Akademi Farmasi Surabaya 2025	Akademi Farmasi Surabaya	Pemateri
18 November 2025	NextGen Biotech "Pengembangan Diri dan Kepemimpinan Mahasiswa Berbasis Refleksi dan Aksi"	Prodi Bioteknologi, Fakultas Ketahanan Pangan , UNESA	Pemateri
1 November 2025	INBIO Virtual Mini Workshop 10 "Genome Wide Association Study"	INBIO	Pemateri
24-25 Oktober 2025	Seminar dan Workshop: Real-time PCR in Biotechnology: Precisions Tools for Discovery and Innovation	Prodi Bioteknologi, Fakultas Ketahanan Pangan , UNESA	Instruktur
8 Oktober 2025	Workshop on e-DNA Based Analysis and Their Application in Biological Research	International Conference of Bioscience, Biodiversity and Biotechnology (ICB3), Prodi Biologi UNAIR-ITS-UNESA	Pemateri
30 - 31 Agustus 2025	From Reads to Variants: Analisis Data NGS dan SNP Calling menggunakan GATK-Best Practice	Generasi Biologi	Pemateri
16 - 17 Agustus 2025	Live Online Class "Plant Molecular Biology and Genetics"	INBIO	Pemateri
18 Juli 2025	Workshop Hands on Bioinformatics with Pacbio	Seminar Nasional Biologi Tropika (SNBT) ke-9, Fakultas Biologi UGM	Peserta
12 Juli 2025	INBIO Virtual Mini Workshop 4 "Quantitative Trait Locus (QTL)-Seq for Plant Biotechnology"	INBIO	Pembicara
8 - 9 Maret 2025	Online Course: Analisis Interaksi Gen (GxG Epistasis Test) Menggunakan PLINK	Generasi Biologi	Pembicara

22 Februari 2025	Webinar Series 13# "Advanced Research in Chemistry"	Prodi S1 Kimia, FMIPA UNESA	Pembicara
26 Februari 2025	Researcher Virtual Bootcamp Batch 2: Bioinformatics 101 "Applied Bioinformatics for Agricultures and Plant Sciences"	Generasi Peneliti	Pembicara
31 Mei - 1 Juli 2024	The 23rd International Genetics Conference at Naresuan University, Thailand	The Genetics Society of Thailand	Pembicara
30 Mei 2024	Plant CRISPR workshop	Bioinformatics Center, and Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University	Peserta
23 – 25 Mei 2024	Protein Structure Determination by X-ray Crystallography	Faculty of Science, Mahidol University	Peserta
14-28 Desember 2023	Chemical Safety for Research Students and Researchers	Center of Excellence on Hazardous Substance Management, Chulalongkorn University	Peserta
21 - 23 Desember 2023	Workshop in Data Analysis using R Program	Center of Excellence in Environment and Plant Physiology (CEEPP), Faculty of Science, Chulalongkorn University	Peserta
12 - 14 Desember 2023	Genomic Exploration and Visualization with Python Module	Bioinformatics Center, and Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University	Peserta
12 November 2022	Integrative Multi-omics Analysis in Plant Science.	Prodi S2 Biologi, FST UNAIR	Dosen Tamu
4-7 November 2022	Accelerate Workflow and Software Tools for Plant Genome: Data processing from Raw data to Variant using high-performance computing (HPC)	Kasetsart University, Thailand	Peserta
4 - 7 November 2022	19th International Symposium on Rice Functional Genomics	Kasetsart University, Thailand	Poster Presentator
1 - 2 Juni 2022	The International Conference of the Genetics Society of Thailand (iGST-2022)	The International Conference of the Genetics Society of Thailand (iGST-2022)	Poster Presentator

28 - 31 Maret 2022	17th NSTDA Annual Conference, National Science and Technology Development Agency, Thailand	National Science and Technology Development Agency, Thailand	Oral Presentator
8, 11, 15, dan 22 November 2021	Introduction to Big Data Analysis in Bioinformatics	Prodi S1 Biologi, FST UNAIR	Dosen MBKM
22 Juni 2021	1st INSCOBIOL (International Student Conference on Biotechnology and Life Science)	Prodi S2 Biologi, FST UNAIR	Invited Speaker
13 Juni 2019	Seminar on Writing Scientific Articles	Himabio FMIPA, Universitas Billfath Lamongan	Pembicara

F. Pengalaman Penulisan Artikel Ilmiah dalam Jurnal dalam 10 Tahun Terakhir

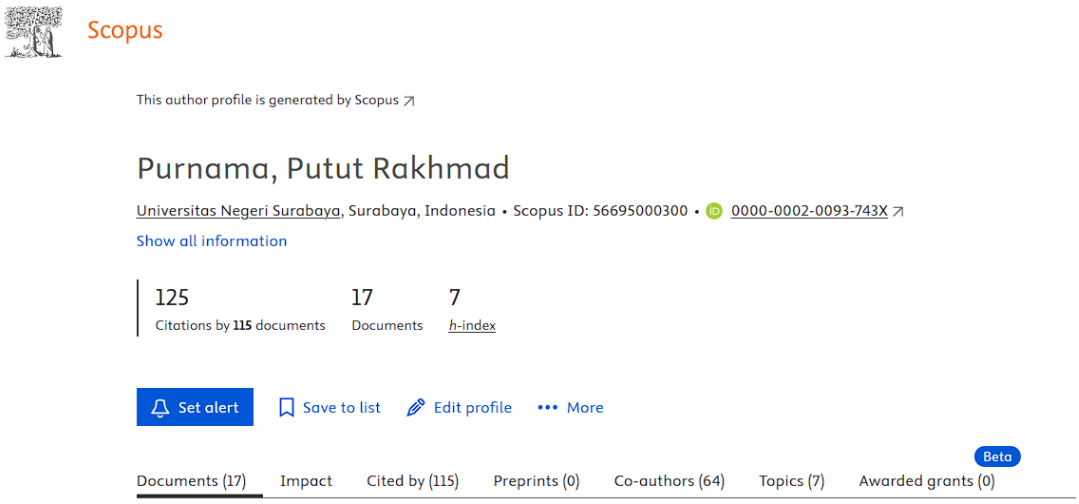
Tahun	Judul	Penerbit/Jurnal
2026	An Annotation-Independent Framework Combining K-mer DE and Machine Learning Reveals Hidden Regulatory Elements Under Salinity Stress in Rice	BMC Bioinformatics (in Submission
2026	A Delivery and Time Dependent SiNPs Enhance Photosynthesis, Antioxidant Defense, and Gene Regulation in Salinity Stressed Rice (*Oryza sativa* L.): SiNPs Improve Photosynthesis, Antioxidant Defense, and Gene Regulation in Salinity-Stressed Ric	Trend in Science (Q2)
2026	The Phenomics, Bioinformatics, and Gene Expression Analysis to Identify Salt-Inducible Genes in Rice Oryza sativa L	Chiang Mai Journal of Science (Q3/insubmission)
2026	Genomic-Based Machine Learning Models Reveal Key Cis-Regulatory Elements Associated with Salinity Tolerance in Indica Rice	BioWeb Proceeding (under review)
2026	Promoter Editing of OsGTL1 Improves Instantaneous Water Use Efficiency via Targeted Stomatal Reduction in Rice	Plant Cell Report (Q1/under review)
2026	Integrative Multi-Model GWAS and Epistasis Analysis Reveal Candidate Genes for Antioxidant Biosynthesis in Thai Landrace Rice	BMP Plant Biology (Q1/under review)
2026	Integration of Knowledge Mining, Hormonal Analysis,and Bioassay for Evaluating Plant-Based Germination Biostimulants	Journal of Engineering Science and Technology (Q3/under review)
2025	F2 bulk segregant analysis reveals salt-tolerant QTLs related to the ubiquitination process	Scientific Reports (Q1)
2025	Morphological characterization and clustering analysis of three local jackfruit cultivars (Artocarpus heterophyllus) in Lamongan District, East Java, Indonesia	Biodiversitas Journal of Biological Diversity
2025	Uncovering genetic determinants of antioxidant properties in Thai landrace rice through genome-wide association analysis	Scientific Reports

2024	Deciphering salt-responsive NB-ARC genes in rice transcriptomic data: A bioinformatics approach with gene expression validation	Open Agriculture
2024	Identification of Bioactive Secondary Metabolites in Citronella Grass Leaves (*Cymbopogon nardus* L.) against *Curvularia andropogonis*	Research Journal of Pharmacy and Technology
2024	Morpho-anatomical characterization and DNA barcoding of *Artemesia vulgaris* L.	Brazilian Journal of Biology
2023	Unraveling the secrets of *Eclipta alba* (L.) Hassk.: a comprehensive study of morpho-anatomy and DNA barcoding	Brazilian Journal of Biology
2023	Genome-wide association study of starch properties in local thai rice	Plants
2022	Morpho-anatomical characterization and DNA barcoding of *Achillea millefolium* L.	Biodiversitas Journal of Biological Diversity
2022	Effect of the Ethanol Extract of Red Okra Pods (*Abelmoschus esculentus* (L.) Moench) to Inhibit Cervical Cancer Cells Growth through Cell Cycle-Associated Oncogenes	Scientifica
2021	Genetic diversity of seagrass *Thalassia hemprichii* and *Enhalus acoroides* in coastal area of East Java	Jordan Journal of Biological Sciences
2019	Morpho-anatomical structure and DNA barcode of *Sonchus arvensis* L	Biodiversitas Journal of Biological Diversity
2019	Gene expression of antioxidant enzymes and heat shock proteins in tropical seagrass *Thalassia hemprichii* under heat Stress	TAIWANIA
2018	Effect of high temperature stress on changes in morphology, anatomy and chlorophyll content in tropical seagrass *Thalassia hemprichii*	AACL Bioflux
2017	Morphology of Four Root Types and Anatomy of Root-Root Junction in Relation Gas Pathway of *Avicennia marina* (Forsk) Vierh Roots	International Journal of Plant Research
2015	The effects of lead [$Pb(NO_3)_2$] on the growth and chlorophyll content of sea grass [*Thalassia hemprichii* (ehrenb.) Aschers.] ex situ	Vegetos

G. Pengalaman menjadi Mitra bestari (peer reviewer) Artikel Ilmiah

Nama Jurnal	**Quartile/Sinta**	**Instansi / Publisher**	**Tahun**
BMC Plant Biology	Q1	Springer Nature Link	2026
Plant Physiology and Biochemistry	Q1	Elsevier	2026
Nature Environment and Pollution Technology	Q4	Technoscience Publications	2026
Euphytica	Q2	Springer Nature Link	2025
Journal of Genetic Engineering and Biotechnology	Q2	ScienceDirect	2025

Biotropia The Southeast Asian Journal of Tropical Biology	Q3	Southeast Asian Ministers of Education Organization (SEAMEO) Southeast Asian Regional Center for Tropical Biology (BIOTROP	2025
SABRAO Journal of Breeding and Genetics	Q2	Department of Plant Breeding and Genetics - University of Agriculture, Peshawar	2025
JRBA (Jurnal Riset Biologi dan Applikasinya)	Sinta 2	Biologi Unesa	2024



Semua data yang saya isikan dan tercantum dalam biodata ini adalah benar dan dapat dipertanggungjawabkan. Apabila di kemudian hari ternyata dijumpai ketidaksesuaian dengan kenyataan,saya sanggup menerima risikonya. Demikian biodata ini saya buat dengan sebenarnya

Surabaya, 15 Oktober 2026

Yang Menyatakan,

Putut Rakhmad Purnama, S.Si., M.Si.,Ph.D

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