

DAFTAR PUSTAKA

- AAK. 1989. Kedelai. Kanisius, Yogyakarta. 83 hal.
- Abuamsha R., Mazen S., dan Ralf U. Ehlers. 2010. Improvement Of Seed Bio-Priming Of Oilseed Rape (*Brassica Napus Ssp. Oleifera*) With *Serratia Plymuthica* And *Pseudomonas Chlororaphis*. Biocontrol Science and Technology Volume 21(2):199-213. Diakses di https://www.researchgate.net/publication/230774218_Improvement_of_seed_biopriming_of_oilseed_rape_Brassica_napus_sspoleifera_with_Serratia_plymuthica_and_Pseudomonas_chlororaphis.
- Adisarwanto T. 2009. Kedelai. Penebar Swadaya. Jakarta. 75 hal.
- _____, Subandi, dan Sudaryono. 2007. Teknologi produksi kedelai.. Dalam Sumarno dkk. (penyunting). Kedelai: Teknik Produksi dan Pengembangan. Puslitbangtan. Bogor. 252 hal.
- _____ dan Widyastuti, Y. E. 2000. Meningkatkan Produksi Kedelai di Lahan Kering, Sawah, dan Pasang Surut. Penebar Swadaya: Jakarta. 86 hal.
- _____ dan Wudianto, R. 2008. Meningkatkan Hasil Panen Kedelai di Lahan Sawah-Kering-Pasang Surut. Penerbit Penebar Swadaya: Jakarta. 84 hal.
- Ahmad M., Oguz C. Turgay, M. Farooq, dan Rifat Hayat. 2016. Seed Biopriming With Plant Growth Promoting Rhizobacteria: A Review. *FEMS Microbiology Ecology* 92(8):1-14.
- Andrianto, T.T. dan N. Indarto. 2004. Budidaya dan Analisis Usaha Tani Kedelai, Kacang Hijau, Kacang Panjang. Absolut. Yogyakarta. 93 hal.
- Andrea Gallavotti. 2013. The Role Of Auxin In Shaping Shoot Architecture. *Journal of Experimental Botany* 64(9):2593–2608.
- Anitha D., Vijaya T., dan Reddy N.V. 2013. Microbial endophytes and their potential for improved bioremediation and biotransformation: a review. *Indo Am J Pharmaceutical Res.* 3: 6408–17.
- Ann M. Hirsch dan Carol A. Smith. 1986. Effects of Rhizobium meliloti nif and fix Mutants on Alfalfa Root Nodule Development. *Journal Of Bacteriology* (169):1137-1146. Diakses dari <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC211911/>.
- Ashifa Cahyani T, M. Ichsan Putrayani, Hasrullah, M. Ersyan, Tita Aulia S., dan Abdul M. Jaya. 2017. Teknologi Formulasi Rhizobakteria Berbasis Bahan Lokal dalam Menunjang Bioindustri Pertanian Berkelanjutan. *Hasanuddin Student Journal.* Vol. 1(1): 16-21

- Ashrafuzzaman, M., F.A. Hossen, R. Ismail, M.A. Hoque, M.Z. Islam, S.M. Shahidullah, S. Meon. 2009. Efficiency Of Plant Growth-Promoting Rhizobacteria (PGPR) For The Enhancement Of Rice Growth. *Afr. J. Biotech* 8(7):1247-1252.
- Astuti, Agung. 2014. Identifikasi dan Karakterisasi Isolat Rhizobacteri Osmotoleran dari Merapi. *Planta Tropika Journal of Ago Science* 4:32-36. journal.umy.ac.id/index.php/pt/article/view/2168. Diakses 6 Februari 2018.
- _____. 2016. Aktivitas Proses Dekomposisi Berbagai Bahan Organik Dengan Aktivator Alami dan Buatan. *Repository.Umy.ac.id handle/123456789*. Diakses 18 Agustus 2019.
- Badan Pusat Statistik (BPS). Produksi Kedelai Indonesia Menurut Provinsi (ton) 1993-2015. <https://www.bps.go.id/linkTableDinamis/view/id/871>. Diakses 12 Juni 2017.
- BPPP. Anonim. 2015. Panduan Budidaya Tanaman Kedelai. 13 hal.
- Balitkabi. 2019. Varietas Demas 1. <http://www.litbang.pertanian.go.id/varietas/1091/>. Diakses 17 Oktober 2019.
- Becana M., J.F. Moran, I. Iturbe-Ormaetxe, Y. Gogorcena dan P.R. Escuredo. 1994. Structure and function of leghemoglobins. *Departamento de Nutrición Vegetal. Zaragoza* 21(3): 203-208. Diakses dari <https://pdfs.semanticscholar.org/c8cb/4fb60f66d8535818667df24e9bb2eedb5d29.pdf>.
- Boniface M. Mwami, Simon N. Nguluu, Jacinta M. Kimiti, dan Josphert N. Kimatu. 2017. Effects of Water Imbibition of Selected Bean Varieties on Germination. *International Journal of Agricultural Research and Review* Vol. 5(1):579-587.
- Carlos G., Teresa H., dan F. Costa. 2012. Color Changes Of Organic Wastes During Composting And Maturation Processes. *Soil Science and Plant Nutrition* 36:2.
- Christina W. V. dan Carl Leopold A. 1983. Dynamics of Imbibition by Soybean Embryos. *Plant Physiol* 72:190-193. Diakses dari <http://www.plantphysiol.org/content/72/1/190>.
- David D. Manalo, S. Sawada, H. Miura, dan K. Kato. 1998. Seed Weight of Nodulating and Non-nodulating Soybeans at Different Nitrogen Levels and Years. *Plant Prod. Sci.* 1(4) : 264-268. Diakses dari <https://www.tandfonline.com/doi/pdf/10.1626/pps.1.264>.
- Djukri. 2005. Efek Jarak Tanam Dan Varietas Terhadap Distribusi Cahaya Dalam Kanopi Dan Pertumbuhan (Biomassa) Kedelai. *Jurnal Pendidikan Sains* 2:115-122.
- Downie J.A, Breakspear A., Liu C., Roy S., Stacey N., Rogers C., Trick M., Morieri G., Mysore K.S., Wen J., Oldroyd G.E.D., dan Murray J.D. 2014. The Root Hair "Infectome" Of *Medicago Truncatula* Uncovers Changes In Cell Cycle Genes And Reveals A Requirement For Auxin Signaling In Rhizobial Infection. *Plant Cell* 26: 4680-4701.
- Efendi, Muhammad Haris. 2012. Pemanfaatan PGPR. Nuansa Press. Malang. 76 hal.
- Eko Srihartanto, Arif A., dan A. Iswadi. 2015. Produktivitas Kedelai Dengan Berbagai Jarak Tanam di Yogyakarta. *Prosiding Seminar Hasil Penelitian Tanaman Aneka Kacang dan Umbi*, hal. 151-154.

- Finch-Savage, W.E., Dent, K.C., Clark, L.J., 2004. Soak conditions and temperature following sowing influence the response of maize (*Zea mays L.*) seeds to on-farm priming (pre-sowing seed soak). *Field Crops Res.* 90:361-374.
- Gardner Franklin P., R. Brent Pearce, dan Roger R. Mitchell. 1985. *Physiology of Crop Plants*. Iowa State University Press. Iowa. 428 hal.
- Gholami, A., S. Shahsavani dan S. Nezrat. 2009. The Effect of Plant Growth Promoting Rhizobacteria (PGPR) on Germination, Seedling Growth and Yield of Maize. *Proceedings of World Academy* 49:19-24
- Gungula D.T, A.O. Togun dan J.G. Kling. 2005. The Influence of N Rates on Maize Leaf Number and Senescence in Nigeria. *World Journal of Agricultural Sciences* 1 (1): 01-05.
- Hasanuddin A, Hidayat JR, dan Patohardjono. 2005. Kebijakan Program Penelitian Kacang-Kacangan dalam Patohardjono, *et al.* (penyunting). Analisis dan Opsi Kebijakan Penelitian dan Pengembangan Tanaman Pangan. Monograf No.2. Puslitbangtan Bogor hal. 132-147.
- Irwan A.W., 2006. *Budidaya Tanaman Kedelai (Glycine max (L.) Merrill)*. Fakultas Pertanian, Universitas Padjadjaran. Jatinangor. 58 hal.
- Iswati, R. 2012. Pengaruh Konsentrasi Formula PGPR Asal Perakaran Bambu terhadap Pertumbuhan Tanaman Tomat (*Solanum lycopersicum syn*). Skripsi. Fakultas Pertanian Universitas Negeri Gorontalo. Sulawesi. 1:9-12
- James E. Board dan Charanjit S. Kahlon. 2011. Soybean Yield Formation: What Controls It and How It Can Be Improved. *Soybean Physiology and Biochemistry* p:1-36.
- Johannes R., Philip C.B., dan E. Bååth. 2009. Contrasting Soil pH Effects on Fungal and Bacterial Growth Suggest Functional Redundancy in Carbon Mineralization. *Applied and Environmental Microbiology*. 75:6. Diakses dari http://scholar.google.co.id/scholar_url?url=https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2655475/&hl=en&sa=X&scisig=AAGBfm25FYbfzTBa0ccyA3VB64GypWBP6g&nossl=1&oi=scholar.
- Kalju Eik. 1962. Some Factors Affecting Leaf Development And Longevity And The Subsequent Yield Of Corn Grain. *Retrospective Theses And Dissertations* p:1-268. Diakses dari <https://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=3127&context=rtd>.
- Kaori K., Mika Koizumi, N. Ishida, dan Hiromi Kano. 2006. Water Uptake by Dry Beans Observed by Micro-magnetic Resonance Imaging. *Annals of Botany* 98: 545–553.
- Kementrian Pertanian. 2011. Peraturan Menteri Pertanian Nomor 70/Permentan/Sr.140/10/2011. 88 hal.
- Kementrian Pertanian. 2015. Outlook Komoditas Pertanian Pangan Kedelai. Pusat Data dan Sistem Informasi Pertanian Kementerian Pertanian. 73 hal.
- Kerbiriou, P.J., T.J. Stomph, P.E.L. Van Der Putten, E.T. Lammerts Van Bueren, dan P.C. Struik. 2013. Shoot Growth, Root Growth And Resource Capture Under Limiting Water And N Supply For Two Cultivars Of Lettuce (*Lactuca Sativa L.*).

- Khin M. Lwin, Moe M. Myint, Tar Tar, dan Wai Z.M. Aung. 2012. Isolation of Plant Hormone (Indole-3-Acetic Acid - IAA) Producing Rhizobacteria and Study on their Effects on Maize Seedling. *Engineering Journal* (16):5.
- Kumari A., K.K. Kapoor, B.S. Kundu, R.K. Mehta. 2008. Identification Of Organic Acids Produced During Rice Straw Decomposition And Their Role in Rock Phosphate Solubilization. *Plant Soil Environ* (2): 72–77.
- Kumar A., B.R. Maurya, R. Raguwanshi. 2014. Isolation And Characterization Of PGPR And Their Effect On Growth, Yield And Nutrient Content In Wheat (*Triticum aestivum L.*). *Biocatalysis and Agricultural Biotechnology* 3:121–128.
- Lamina. 1989. *Kedelai dan Pengolahannya*. Simpleks. Jakarta. 92 hal.
- Leopold, A.C., Thimann K.V. 1949. The Effect of Auxin on Flower Initiation. *Science Journal* 36(4):342-347. Diakses dari https://www.jstor.org/stable/2437929?seq=1#page_scan_tab_contents.
- Li Ling, J. Jiafeng, L. Jiangang, S. Minchong, H. Xin, Shao Hanliang, D. Yuanh. 2014. Effects of cold plasma treatment on seed germination and seedling growth of soybean. *Scientific Reports* 4: 5859. Diakses dari <https://www.nature.com/articles/srep05859>.
- Mc Adam, Erin L., James B. Reid, Eloise Foo. 2018. Gibberellins Promote Nodule Organogenesis But Inhibit The Infection Stages Of Nodulation. *Journal of Experimental Botany* 69:2117-2130.
- Mc Millan, S. 2007. *Promoting Growth with PGPR*. Soil Biology Laboratory and Learning Centre. Soil Foodweb Canada Ltd. 34 hal.
- Mona, M.M. Ragab, Ashour A.M.A, R.S.R. El-Mohamedy, Morsy, A.A , dan Hanafy E.K. 2017. Seed Bio priming as Biological Approach for Controlling Root Rot Soil Born Fungi on Soybean (*Glycine max L.*) Plant. *International Journal of Agricultural Technology* Vol. 13(5): 771-788.
- Morris G. Cline. 1996. Exogenous Auxin Effects On Lateral Bud Outgrowth In Decapitated Shoots. *Annals Of Botany* 78: 255-266. Diakses dari http://scholar.google.co.id/scholar_url?url=https://academic.oup.com/aob/article-pdf/78/2/255/7982584/780255.pdf&hl=en&sa=X&scisig=AAGBfm3VOB8kC-W_-4liX7pnaur-iBKREw&nossl=1&oi=scholar.
- Melissa S. dan Royani. 2014. Respon Pertumbuhan dan Produksi Tanaman Cabai Merah (*Capsicum Annum L.*) Terhadap Pemberian PGPR (*Plant Growth Promoting Rhizobakteri*) dari Akar Bambu dan Urine Kelinci. *Jurnal Agoscience* 4:109-114.
- Murselindo, A.A. 2014. Pengaruh Pupuk NPK Pelet dari Kotoran Ayam terhadap Pertumbuhan dan Hasil Tanaman Kedelai (*Glycine max l.*) di Tanah Regosol. *Planta Tropika Journal of Ago Science* 2:74-80
- Nelson, Louise M. 2004. Plant Growth Promoting Rhizobacteria (PGPR): Prospects for New Inoculants. *Crop Management* (3):1-12

- Palleroni, N.J. 1986. Taxonomy of Pseudomonas. Bergey's Manual of Systematic Bacteriology. Baltimore: The Williams and Wilkins Co. Hal. 3-25. Diakses dari https://www.researchgate.net/publication/299784131_Taxonomy_of_the_Pseudomonads.
- Paul Overvoorde, Hidehiro F., dan Tom Beeckman. 2010. Auxin Control of Root Development. Cold Spring Harb Perspect Biol p:1-16.
- Pedersen, Palle. 2007. Effect of Row Spacing and Seeding Rate on Soybean Yield. Agronomy Journal Volume 100(3): 704-710.
- Pedro, V., L. Cleuza, Y. Yano, M. Itamar dan K. Yoshimasa. 1996. Characterization of Plant Growth-Promoting Rhizobacteria from Maize under Low Temperature. Japan Collection of Microorganisms. The Institute of Physical and Chemical Research. Japan 43:1-7.
- Prabowo Yudi A. 2005. Teknik Budidaya Kedelai. Penerbit Penebar Swadaya. Jakarta. 104 hal.
- Pratama S.P , A. Yunus , E. Purwanto, dan Y .Widyastuti. 2018. The effect of cutting origin and organic plant growth regulator on the growth of Daun Ungu (*Graptophyllum pictum*) through stem cutting method. Earth and Environmental Science 142:12-56.
- Rahni, N.M. 2012. Efek Fitohormon Terhadap Pertumbuhan Tanaman jagung (*Zea mays*). Artikel Dosen Agoteknologi Universitas Haluoleo 3(2):27-35.
- Raghavan D., Muthuswamy A., Aundy K., Yogyiar K. B., Kizhakke P.S., dan Ravindran A. 2015. Isolation, Characterization, And Evaluation Of Multi-Trait Plant Growth Promoting Rhizobacteria For Their Growth Promoting And Diseasesuppressing Effects On Ginger. Microbiological Research 173:34–43.
- Rukmana, Rakhmat dan Yuyun Yuniarsih.2012. Kedelai Budidaya dan Pasca Panen. Penerbit Kanisius. 88 hal.
- Raymond A. B. Sopacua. 2014. Pengaruh Inokulasi Bakteri *Rhizobium Japonicum Terhadap* Pertumbuhan Kacang Kedelai (*Glycine Max L*). Biopendix, 1 (1):48-53.
- Ryosuke T., Jun Abe, Alexander L. 2007. Nitrogen Fixing Activity Of Root Nodules In Relation To Their Size In Peanut (*Arachis Hypogea*). Plant Production Science 10:423-429. <https://www.tandfonline.com/doi/abs/10.1626/pps.10.423>
- Seema P. Rodge, Sayali K. Sable, Shradda K. Salve, Sujata A. Sawant, dan Niranjan P. Patil. 2016. Isolation and Characterization of PGPR from Roots of *Ficus religiosa* growing on Concrete Walls and its Effect on Plant Growth in Drought Condition. International Journal of Current Microbiology and Applied Sciences 5: 583-593.
- Sofianto. 2014. Analisis Mikroba Pada Cairan Sebagai Pupuk Cair Limbah Organik Dan Aplikasinya Terhadap Tanaman Pakcoy (*Brassica Chinensis L.*). Jurnal Gamma (9):2.
- Stuart Mcmillan. 2007. Promoting Growth With PGPR. The Canadian Organic Grower p:32-34. Diakses dari <http://magazine.cog.ca/article/promoting-growth-pgpr>.

- Suwarto, I. Dinuriah, R. Pramesthi dan Soraya. 2019. Root Growth Dynamics And Grain Yield Of Ten New Plant Type Of Rice Lines Under Aerobic And Flooded Condition. *Earth and Environmental Science* 250:1-8.
- Sri Mulyani E.S. 2006. *Anatomi Tumbuhan*. Kanisius. 323 hal.
- Tadesse M., W.J.M. Lommen, P.E.L. Van Der Putteni, dan P.C. Struiki. 2001. Development Of Leaf Area And Leaf Number Of Micropropagated Potato Plants. *Netherlands Journal Ofagricultural Science* 49:5-32.
- Tambas, D. dan Rakhman, A.M . 1986. Pengaruh Inokulasi *Rhizobium japonicum* Frank., Pemupukan Molibdenum, dan Kobalt terhadap Produksi dan Jumlah Nodul Akar Tanaman Kedelai pada Tanah Podsolik Plintik. Direktorat Jendral Pendidikan Tinggi Departemen Pendidikan dan Kebudayaan Fakultas Pertanian Universitas Sriwijaya, Palembang. 52 hal.
- Taylor A.G. dan Harman G.E. 1990. Concept and Technologies Of Selected Seed Treatments. *Ann Rev Phytopathol* 28:321-39. Diakses dari http://scholar.google.co.id/scholar_url?url=https://www.annualreviews.org/doi/pdf/10.1146/annurev.py.28.090190.001541&hl=en&sa=X&scisig=AAGBfm3hzmN6lEHu5XtkBKLna1NmG1aCfA&nossl=1&oi=scholar.
- Theresa Dwi K., E. Pudjihartati, L.T. Hasan. 2017. Bio-Priming Benih Kedelai (*Glycine Max* (L.) Merrill) untuk Meningkatkan Mutu Perkecambahan. Prosiding 7 Fakultas Pertanian dan Bisnis UKSW.
- Tim Balai Penelitian Tanah. Rekomendasi Pemupukan Tanaman Kedelai Pada Berbagai Tipe Penggunaan Lahan. <http://balittanah.litbang.pertanian.go.id/document.php>. Diakses 15 Juli 2017.
- Vaadia Y., Itai C. 1965. Kinetin-like Activity in Root Exudate of Water-stressed Sunflower Plants. *E.J Whittington. London* 65-77. Diakses dari <https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1399-3054.1965.tb06991.x>.
- Wahyudi, A.T. 2009. Rhizobacteria Pemacu Pertumbuhan Tanaman : Prospeknya sebagai Agen Biostimulator dan Biokontrol. *Journal of Microbiology and Antimicrobials* 3(2):34-40.
- Weaver J.E. 1926. *Root Developments of Field Crop*. McGraw Hill. New York. 291p. Diakses dari http://scholar.google.co.id/scholar_url?url=http://www.soilandhealth.org/wpcontent/uploads/GoodBooks/Root%2520Development%2520of%2520Field%2520Crops.pdf
- Wiroatmojo. 2000. *Kedelai*. Karya Utama Press. Semarang. 77 hal.
- Wright, Joanne N. 1962. Root Weight and Distribution of Blue Panicgrass, *Panicum antidotale* Retz., as Affected by Fertilizers, Cutting Height, and Soil-Moisture Stress. *Agronomy Journal* 54:200-202. Diakses dari <https://www.semanticscholar.org/paper/Root-Weight-and-Distribution-of-Blue-Panicgrass%2C-as-Wright/92fdc540be42520fec49bf723da98f91dd478fac>
- Yustika, S. B., 1985. Hubungan Iklim Dengan Pertumbuhan Tanaman Kedelai. *Pusat Penelitian dan Pengembangan Tanaman Pangan, Bogor*.(20)1:27-34.

Yoav Bashan dan Luz E.D. Bashan. 2005. Fresh-Weight Measurements Of Roots Provide Inaccurate Estimates Of The Effects Of Plant Growth-Promoting Bacteria On Root Growth: A Critical Examination. *Soil Biology & Biochemistry* 37:1795–1804.