

## DAFTAR PUSTAKA

- Acuna, J.J., M.A. Jorquera<sup>1</sup>, O.A. Martínez, D. Menezes–Blackburn, M.T. Fernández, P. Marschner, R. Greiner dan M.L. Mora<sup>1</sup>. 2011. *Indole Acetic Acid* and *Phytase* Activity Produced by *Rhizosphere bacilli* as Affected by pH and Metals. *Journal of Soil Science and Plant Nutrition*, 11: 1-12.
- Ahmed, A. dan S. Hasnain. 2010. Auxin-producing *Bacillus* sp. : Auxin Quantification and Effect on The Growth of *Solanum tuberosum*. *Pure and Applied Chemistry*, 82: 313-319.
- Aisyah, S.N., H. Harnas, S. Sulastri, R. Retmi, H. Fuaddi, F. Fatchiyah, A. Bakhtiar dan J. Jamsari. 2016. Enhancement of A Novel Isolate of *Serratia plymuthica* as Potential Candidate for An Antianthraxnose. *Pakistan Journal of Biological Sciences*, 19: 250-258.
- Aisyah, S.N., S. Sulastri, R. Retmi, R.H. Yani, E. Syafriani, L. Syukriani, F. Fatchiyah, A. Bakhtiar dan J. Jamsari. 2017. Suppression of *Colletotrichum gloeosporioides* by Indigenous *Phyllobacterium* and Its Compatibility with *Rhizobacteria*. *Asian Journal of Plant Pathology*, 11: 139-147.
- Aisyah, S.N., J. Maldoni, I. Sulastri, W. Suryati, Y. Marlisa, L. Herliana dan J. Jamsari. 2019. Unraveling The Optimal Culture Condition for The Antifungal Activity and IAA Production of Phylloplane *Serratia plymuthica*. *Plant Pathology Journal*, 18: 31-38.
- Banks, R.E., M.J. Dunn, D.F. Hochstrasser, J. Sanchez, W. Blackstock, D.J. Pappin dan P.J. Selby. 2000. New Perspectives, New Biomedical Opportunities. *The Lancet*, 356: 1749-1756.
- Baker, C., R. Chitrakar, N. Obulareddy, S. Panchal, P. Williams dan M. Melotto. 2010. Molecular Battles between Plant and Pathogenic Bacteria in The Phyllosphere. *Brazilian Journal of Medical and Biological Research*, 43: 698-704.
- Bianco, C., R. Defez. 2009. *Medicago truncatula* Improves Salt Tolerance when Nodulated by an *Indole-3-acetic-acid* Over Producing *Sinorhizobium meliloti*. *Journal of Experimental Botany*, 60: 3097-3107.
- Block, A., E. Schmelz, J.B. Jones dan H.J Klee. 2005. Coronatine and Salicylic Acid: The Battle Between *Arabidopsis* and *Pseudomonas* for Phytohormone Control. *Molecular Plant Pathology*, 6: 79-83.
- Boiero, L., D. Perrig, O. Masciarelli, C. Penna, F. Cassán dan V. Luna. 2007. Phytohormone Production by Three Strains of *Bradyrhizobium japonicum* and Possible Physiological and Technological Implications. *Applied Microbiology and Biotechnology*, 74: 874-880.

- Bradford, M.M. 1976. A Rapid and Sensitive Method for The Quantitation of Microgram Quantities of Protein Utilizing The Principle of Protein-dye Binding. *Analytical Biochemistry*, 72: 248-254.
- Brandl, M., B. Quinones dan S. Lindow. 2001. Heterogeneous Transcription of An *Indole Acetic Acid* Biosynthetic Gene in *Erwinia herbicola* on Plant Surfaces. *Proceedings of The National Academy of Sciences*, 98: 3454-3459.
- Broek, A.V., P. Gysegom, O. Ona, N. Hendrickx, E. Prinsen, J. Van Impe dan J. Vanderleyden. 2005. Transcriptional Analysis of The *Azospirillum brasilense Indole-3-pyruvate Decarboxylase* Gene and Identification of A Cis-acting Sequence Involved in Auxin Responsive Expression. *Molecular Plant-Microbe Interactions*, 18: 311-323.
- Chandra, S., K. Askari dan M. Kumari. 2018. Optimization of *Indole Acetic Acid* Production by Isolated Bacteria from *Stevia rebaudiana* Rhizosphere and Its Effects on Plant Growth. *Journal of Genetic Engineering and Biotechnology*, 16: 581-586.
- Czajkowski, R., W. De Boer, J. Van Veen dan J. Van Der Wolf. 2012. Studies on The Interaction between The Biocontrol Agent, *Serratia plymuthica* A30, and Blackleg-causing *Dickeya* sp. (Biovar 3) in Potato (*Solanum tuberosum* L.). *Plant Pathology*, 61: 677-688.
- Datta, C. dan P. Basu. 2000. *Indole Acetic Acid* Production by A *Rhizobium* Spesies from Root Nodules of a *Leguminous shrub*, *Cajanus cajan*. *Microbiology Research*, 155: 123 – 127.
- Dhungana, S.A. dan K. Itoh. 2019. Effects of Co-Inoculation of *Indole-3-Acetic Acid*-Producing and-Degrading Bacterial Endophytes on Plant Growth. *Horticulturae*, 5: 1-9.
- Duncan, D.B. 1955. Multiple Range and Multiple F Tests. *Biometrics*, 11: 1-42.
- El-Tarabily, K.A. 2008. Promotion of Tomato *Lycopersicon esculentum* Mill. Plant Growth by Rhizosphere Competent *1-aminocyclopropane-1-carboxylic acid deaminase* Producing *Streptomyces actinomycetes*. *Plant and Soil*, 308: 161-174.
- Gkarmiri, K., R.D. Finlay, S. Alström, E. Thomas, M. A. Cubeta, dan N. Högberg. 2015. Transcriptomic Changes in The Plant Pathogenic Fungus *Rhizoctonia solani* AG-3 in Response to The Antagonistic Bacteria *Serratia proteamaculans* and *Serratia plymuthica*. *BioMed Central Genomics*, 16: 630-646.
- Gong, J.S., Z. Lu, H. Li, J.S. Shi, Z.M. Zhou dan Z.H. Xu. 2012. Nitrilases in *Nitrile* Biocatalysis: Recent Progress and Forthcoming Research. *Microbial cell factories*, 11: 142-160.
- Gonzalez-Fernández, R., E. Prats dan J.V. Jorrín-Novo. 2010. Proteomics of Plant Pathogenic Fungi. *BioMed Research International*, 2010: 1-36.

- Gonzalez-Fernandez, R. dan J.V. Jorrin-Novu. 2011. Contribution of Proteomics to The Study of Plant Pathogenic Fungi. *Journal of Proteome Research*, 11: 3-16.
- Gordon, S.A. dan R.P. Weber. 1951. Colorimetric Estimation of *Indole Acetic Acid*. *Plant Physiology*, 26: 192-195.
- Kamensky, M., M. Ovadis, I. Chet dan L. Chernin. 2003. Soil-borne Strain IC14 of *Serratia plymuthica* with Multiple Mechanisms of Antifungal Activity Provides Biocontrol of *Botrytis cinerea* and *Sclerotinia sclerotiorum* Diseases. *Soil Biology and Biochemistry*, 35: 323-331.
- Khamna, S., A. Yokota, J.F. Peberdy dan S. Lumyong. 2010. *Indole-3-Acetic Acid* Production by *Streptomyces* sp. Isolated from Some Thai Medicinal Plant Rhizosphere Soils. *Journal BioScience*, 4: 23-32.
- Koga, J., T. Adachi dan H. Hidaka. 1991. Molecular Cloning of The Gene for *Indole pyruvate decarboxylase* From *Enterobacter cloacae*. *Molecular and General Genetics MGG*, 226: 10-16.
- Lambrecht, M., Y. Okon, A.V. Broek dan J. Vanderleyden. 2000. *Indole-3-Acetic Acid* A Reciprocal Signalling Molecule in Bacteria-plant Interactions. *Trends in Microbiology*, 8: 298-300.
- Li, P., A.H. Kwok, J. Jiang, T. Ran, D. Xu, W. Wang dan F. C. Leung. 2015. Comparative Genome Analyses of *Serratia marcescens* FS14 Reveals Its High Antagonistic Potential. *PLoS One*, 10: e0123061-e0123082.
- Liu, X., J. Jia, S. Atkinson, M. Cámara, K. Gao, H. Li dan J. Cao. 2010. Biocontrol Potential of An Endophytic *Serratia* sp. G3 and Its Mode of Action. *World Journal of Microbiology and Biotechnology*, 26: 1465-1471.
- Liu, X., J. Jia, R. Popat, C.A. Ortori, J. Li, S.P. Diggle, K. Gao dan M. Cámara. 2011. Characterisation of Two Quorum Sensing Systems in The Endophytic *Serratia plymuthica* Strain G3: Differential Control of Motility and Biofilm Formation According to Life-style. *BioMed Central Microbiology*, 11: 26-37.
- Mahadevan, B. dan D.L. Crawford. 1997. Properties of The *Chitinase* of The Antifungal Biocontrol Agent *Streptomyces lydicus* WYEC108. *Enzyme and Microbial Technology*, 20: 489-493.
- Maldoni, J. 2019. Optimasi Produksi IAA *Serratia plymuthica* Strain UBCF\_13/R\_36 melalui Modifikasi Konsentrasi Induser dan Durasi Kultur Induksi. [Skripsi]. Padang: Universitas Andalas.
- Malik, D.K. dan S.S. Sindhu. 2011. Production of *Indole Acetic Acid* by *Pseudomonas* sp. : Effect of Coinoculation with *Mesorhizobium* sp. Cicer on Nodulation and Plant Growth of Chickpea (*Cicer arietinum*). *Physiology and Molecular Biology of Plants*, 17: 25-32.

- Mandal, S.M., K.C. Mondal, S. Dey dan B.R. Pati. 2007. Optimization of Cultural and Nutritional Conditions for *Indole-3-Acetic Acid* (IAA) Production by A *Rhizobium* sp. Isolated From Root Nodules of *Vigna mungo* L. Hepper. *Res. Journal Microbiol*, 2: 239-246.
- Marlisa, Y. 2019. Pengaruh Modifikasi pH Media Kultur Pertumbuhan Terhadap Aktivitas Antijamur dari Supernatan Kultur Bakteri *Serratia plymuthica* Strain UBCF\_13/-R\_36. [Skripsi]. Padang: Universitas Andalas.
- Masurekar, P.S. 2008. Nutritional and Engineering Aspects of Microbial Process Development. *Natural Compounds as Drugs*, 1: 91-328.
- Nishimura, T., K.I. Hayashi, H. Suzuki, A. Gyohda, C. Takaoka, Y. Sakaguchi, dan Y. Kamiya. 2014. Yucasin is A Potent Inhibitor of YUCCA, A Key Enzyme in Auxin Biosynthesis. *The Plant Journal*, 77: 352-366.
- Nouwens, A.S., M.D. Willcox, B.J. Walsh dan S.J. Cordwell. 2002. Proteomic Comparison of Membrane and Extracellular Proteins from Invasive (PAO1) and Cytotoxic (6206) Strains of *Pseudomonas aeruginosa*. *International Edition*, 2: 1325-1346.
- Ona, O., I. Smets, P. Gysegom, K. Bernaerts, J. Van Impe, E. Prinsen dan J. Vanderleyden. 2003. The Effect of pH On *Indole-3-Acetic Acid* (IAA) Biosynthesis of *Azospirillum brasilense* Sp7. *INT Science Service*, 35: 199-208.
- Pandey, A. dan M. Mann. 2000. Proteomics to Study Genes and Genomes. *Nature*, 405: 837.
- Pang, Y., X. Liu, Y. Ma, L. Chernin, G. Berg dan K. Gao. 2009. Induction of Systemic Resistance, Root Colonisation and Biocontrol Activities of The Rhizospheric Strain of *Serratia plymuthica* are Dependent On *N-acyl homoserine* Lactones. *European Journal of Plant Pathology*, 124: 261-268.
- Patil, N.B., M. Gajbhiye, S.S. Ahiwale, A.B. Gunjal dan B.P. Kapadnis. 2011. Optimization of *Indole-3-Acetic Acid* (IAA) Production by *Acetobacter diazotrophicus* L1 Isolated from Sugarcane. *International Journal of Environmental Sciences*, 2: 295-302.
- Parvin, W., Q.S.A. Jahan, M.M. Rahman dan M.Y. Wong. 2018. In vitro Screening and Optimization of IAA Production from Plant Growth Promoting Rhizobacteria *Burkholderia cepacia* UPMB3. *Plant Tissue Culture and Biotechnology*, 28: 25-34.
- Patten, C.L. dan B.R. Glick. 2002. Regulation of *Indole Acetic Acid* Production in *Pseudomonas putida* GR12-2 by Tryptophan and The Stationary-phase Sigma Factor RpoS. *Canadian Journal of Microbiology*, 48: 635-642.
- Patten, C.L., A.J. Blakney dan T.J Coulson. 2013. Activity, Distribution and Function of *Indole-3-Acetic Acid* Biosynthetic Pathways in Bacteria. *Critical Reviews in Microbiology*, 39: 395-415.

- Posada Uribe, L.F., M.T. Romero dan V.E. Villegas. 2015. Effect of Medium Components and Culture Conditions in *Bacillus subtilis* EA-CB0575 Spore Production. *Bioprocess Biosyst*, 38: 1879–1888.
- Radji, M. 2005. Peranan Bioteknologi dan Mikroba Endofit dalam Pengembangan Obat Herbal. *Majalah Ilmu Kefarmasian*, 2: 113-126.
- Saleh, S.S. dan B.R. Glick. 2001. Involvement of *GacS* and *RpoS* in Enhancement of The Plant Growth-promoting Capabilities of *Enterobacter cloacae* CAL2 and UW4. *Canadian Journal of Microbiology*, 47: 698-705.
- Shen, S.S., O.H. Choi, S.H. Park, C.G. Kim dan C.S. Park. 2005. Root Colonizing and Biocontrol Competency of *Serratia plymuthica* A21-4 against *Phytophthora blight* of pepper. *The Plant Pathology Journal*, 21: 64-67.
- Smith, R., A.D. Mathis, D. Ventura dan J.T. Prince. 2014. Proteomics, Lipidomics, Metabolomics: A Mass Spectrometry Tutorial From A Computer Scientist's Point of View. *BMC Bioinformatics*, 15: S9.
- Spaepen, S., J. Vanderleyden dan R. Remans. 2007. *Indole-3-Acetic Acid* in Microbial and Microorganism-plant Signaling. *Federation of European Microbiological Societies*, 31: 425-448.
- Sridevi, M. dan K.V. Mallaiah. 2007. Bioproduction of *Indole Acetic Acid* by *Rhizobium* Strains Isolated from Root Nodules of Green Manure Crop, *Sesbania sesban* L. Merr. *Iranian Journal of Biotechnology*, 5: 178-182.
- Teale, W.D., I.A. Paponov dan K. Palme. 2006. Auxin in Action: Signalling, Transport and The Control of Plant Growth and Development. *Nature Reviews Molecular Cell Biology*, 7: 847-859.
- Tokala, R.K., J.L. Strap, C.M. Jung, D.L. Crawford, M.H. Salove, L.A Deobald dan M.J. Morra. 2002. Novel Plant-microbe Rhizosphere Interaction Involving *Streptomyces lydicus* WYEC108 and The Pea Plant *Pisum sativum*. *Appl. Environ. Microbiol*, 68: 2161-2171.
- Vorholt, J.A. 2012. Microbial Life in The Phyllosphere. *Nature Reviews Microbiology*, 10: 828-840.
- Whipps, J., P. Hand, D. Pink dan G.D. Bending. 2008. Phyllosphere Microbiology with Special Reference to Diversity and Plant Genotype. *Journal of Applied Microbiology*, 105: 1744-1755.
- Woodward, A.W. dan B. Bartel. 2005. Auxin: Regulation, Action, and Interaction. *Annals of Botany*, 95: 707-735.
- Zhang, C., X. Zhang dan S. Shuen. 2014. Proteome Analysis for Antifungal Effects of *Bacillus subtilis* KB-1122 on *Magnaporthe grisea* P131. *Journal of Microbial Biotechnology*, 30: 1763-1774.