



UNIVERSITAS
GADJAH MADA

Efek Auksin, Sitokinin, dan Paklobutrazol Terhadap Pertumbuhan Vegetatif Tanaman Kentang (Solanum tuberosum L. Granola) di Kaliurang, Daerah Istimewa Yogyakarta

RISQI SAPUTRA, Dr. Kumala Dewi, M.Sc.St

Universitas Gadjah Mada, 2018 | Diunduh dari <http://etd.repository.ugm.ac.id/>

DAFTAR PUSTAKA

- Ames, M. and Spooner, D. 2008. DNA From Herbarium Speciment Settles A Controversy Abount Origins Of The European Potato. *American Journal of Botany* 95(2): 252-257.
- Anonim ^a. 2012. *Paklobutrazol : Review Conducted by MDAR and MassDEP for Use in Sensitive Areas of Right-of-way in Massachusetts*. Massachusetts Departement of Evnviromental Protection. Massachussets. Hal: 5-6.
- Anonim ^b. 2014. *Berita Resmi PVT: Pendaftaram Variets Lokal*. No. Publikasi : 004/BR/PVL/02/2014.
- Armendaris, A, S.D Woejono, H. Hartiko. 1991. *Aktivitas enzim reduktase dan korelasinya terhadap sifat pertumbuhan tanaman kakao (Theobroma cacao L.)*. Ilmu Pertanian Fakultas Pertanian 4(6) : 299-305
- Badan Pusat Statistik. 2013. Luas Panen, Produksi dan Produktivitas Kentang 2010-2013 . <http://www.bps.go.id>.
- Barceloux, D. G. 2009. *Medical Toxicology of Natural Substances : Foods, Fungi, Hedicinal Herbs, Plants and Venjomous Animal*, John Wiley Publishers, New York. Hal. 64-68.
- Bidwell, R.G. 1979. *Plant Physiology*. 2ndedition. New York: Macmillan Publishing.
- Bradeen, J. M. and C. Kole. 2011. *Gentics, Genomics and Breeding of Potato*. Science publisher and CRC Press. USA. Hal: 4, 11-13
- Burton, W.G.1989. *The Potato 3rd. EditionI*. British Library
- Campbell. N. A., J. B. Reece and L. G. Mitchell. 2004. *Biologi*. Edisi Kelima Jilid 3. (Diterjemahkan oleh Wasmen Manalu). Erlangga. Jakarta. Hal: 180-189, 381-386.
- Campbell. N.A and Reece. 2008. *Biology 8th edition*. John Wiley and Sons. Hal: 803-831
- Chaney, W. R. 2005. *A Paclobutrazol Treatment Can Leave a Tree More Stress Tolerant*. Advanstar Pub. New Yok.
- Danusastro. 1989. *Zat Pengatur Tumbuh*. PT Gramedia. Jakarta. Hal: 247
- Davies, P.J. 1995. *The plant hormone their nature, occurence and function*. In Davies (ed.) *Plant Hormone and Their Role in Plant Growth Development*. Dordrecht Martinus Nijhoff Publisher.
- Hartus, T. 2009. Usaha Pembibitan Kentang Bebas Virus. Penebar Swadaya. Jakarta
- Djojosumarto, Panut. 2008. *Teknik Aplikasi Pestisida Pertanian Edisi Revisi*. Kanisius. Yogyakarta.
- Dwijoseputro, D. 1978. *Pengantar Fisiologi Tumbuhan*. PT. Gramedia. Jakarta. Hal: 232.
- FAO. 2009. *Sustainable Potato Production*. Guidelines for Developing Countries. Rome.
- Fitriana, J., K. K. Pulkan dan L. Herlina. 2008. *Aktivitas Enzim Nitrat Reduktase Kedelai Kultivar Burangrang Akibat Variasi Kadar Air Tanah pada Awal Pengisian Polong*. Jurusan Biologi FMIPA UNNES. Semarang. Hal: 3-4.
- Fried, G. H and G. J. Hademenos. 1999. *Schaum's Outline's Biology : Second Edition*. McGraw-Hill Companies. USA. Hal: 187.
- Frommer W.B and Sonnewldt U. 1995.. Molecular analysis of carbon partitioning in solanaceous spesies. *J.Exp. Bot.* 108 : 761-767.
- Gaba, V.P. 2005. Plant Growth Regulator. In R.N. Trigiano and D.J. Gray (eds.) *Plant Tissue Culture and Development*. CRC Press. London. Hal: 87-100.
- George, E.F. 1993. *Plant Propagation by Tissue Culture*. Part 1. The Technology Exegetic. England. Hal: 1361.
- Goldworthy, P. R. dan N. M. Fisher. 1992. *Fisiologi Tanaman Budidaya Tropik*. (Diterjemahkan oleh Tohari). Universitas Gadjah Mada Press. Yogyakarta. Hal: 874.
- Gomez, K. A and A. A. Gomez. 1983. *Statistical Procedures For Agricultural Research Second Edition*. John Wiley and Sons. New York. Hal: 7-13, 207,303.
- Guern, J and C. Peaud-Lenoel. 1981. *Metabolism and Molecular Activities of Cytokinins*. Springer-Verlag BerlinHeidelberg. New York. Hal: 352.



- Hamdami, J. S. 2009. Pengaruh Jenis Mulsa Terhadap Pertumbuhan dan Hasil Tiga Kultivar Kentang (*Solanum tuberosum L.*) yang Ditanam di Dataran Medium. *J. Agron. Indonesia*, 37 (1): 14-20.
- Harbone, J. B. 1987. *Metode Fitokimia : Penentuan cara modern menganalisis tumbuhan*. Terbitan kedua. Terjemahan dari Phytochemical Methods oleh Padmawinata. K dan I. Sudiaro. Institut Teknologi Bandung Press. Bandung. Hal: 261.
- Harris, P. 1992. *The Potato Crop. Volume 1 : The Scientific Basic for Improvement Second Edition*. Springer-Science-Business Media Dordrecht. North Yorkshire. Pp: 41, 67-96, 133.
- Haryadi, S. S. 1993. *Pengantar Agronomi*. PT Gramedia. Jakarta. Hal: 13-15.
- Hayata, Y., Y. Niimi dan N. Iwasaki. 1995. Synthetic Cytokinin-1-(2-Chloro-4-pyridil)-3-Phenylurea (CPPU).Promotes Fruit Set and Induces Parthenocarpy in Watermelon. *J. Amer. Soc. Hort. Sci.*120 (6): 997-1000
- Hendaryono, D. P. S. dan A. Wijayani. 1994. *Teknik Kultur Jaringan*. Kanisius. Yogyakarta. Hal: 64.
- Hosaka, K. and Hanneman, R.E.Jr (1988a). The origin of cultivated tetraploid potato based on choloroplast DNA. *Theoretical and Applied Genetics* 76: 172-176.
- Hosaka, K. and Hanneman, R.E.Jr (1988b). Origin of choloroplast DNA diversity in the Andean Potatoes. *Theoretical and Applied Genetics* 76: 333-340.
- Huaman. Z. and D. J. Midmore. 1985. *Tabular Deskriptions of Crops Grown in the Tropics 7. Potato (Solanum tuberosum L. and Solanum tuberosum Juz et buk)*. Institute of Biological Resources Division of Water and Land Resources. Canberra, Australia. Hal: 11-25.
- Humphries, E. C. and A. W. Wheeler. 1963. Annu. Rev. *Plant Physiology* 14: 385-410.
- Kartasaputra, A. G. 1998. *Pengantar Anatomi Tumbuh-tumbuhan: Tentang Sel dan Jaringan*. Bina Aksara. Jakarta. Hal: 134-136.
- Kusuma dan E. Sofiari. 2007. Kartererisasi Kentang Varietas Granola, Atlantic dan Balsa Dengan Metode UPOV. *Buletin Plasma Nutfah*, 13(1): 27-33.
- Lacher, A. 1995. *Physiological Plant Ecology Ecophysiology and Stress Physiology of Functional Groups. Third edition*. Springer-verlag Berlin Heidelberg. Berlin. Hal: 212.
- Lambert, S.J & Scott, J.B. 2012. Strain characterization of potato virus S isolates from Tasmania. Australia. *Plant Dis.*, 96l: 813-9.
- Leopard, A. C. and P. E. Kriedemann. 1985. *Plant Growth and Development*. Tata McGraw Hill Publishing. New Delhi. Hal: 156.
- Lestari. E. G. 2006. Hubungan antara Kerapatan Stomata dengan Ketahanan Kekeringan pada Somaklon Padi Gajah Mungkur, Towuti dan IR 64. *Jurnal Biodiversitas*, 7(1): 44-48.
- Lestari, P. W. A., M. R. Defiani dan I.A. Astarini, 2014. Produksi Bibit Kentang (*Solanum teberosum L.*) G1 dari Stek Batang. *Jurnal Simbiosis*, II(2): 215-225.
- Leszynski, J. F. And Rose, G.D. 1986. *Loops in globular proteins: a novel catogory of secondary structure, Science*. Hal: 234, 839.
- Li, P. H. 1985. *Potato Physiology*. Academic Press Inc. Orlando Florida. Hal: 28.
- Lin, K. H., C. C. Tsou. S. Y. Hwang, L. F. O. Chen and H. F. Lo. 2008. Paclobutrazol Leads to Enchaced Antioxidative Protection of Sweetpotato Under Flooding Stress. *J. Bot Stud* : 49:9-18.
- Li, y. F., R. Zhu, P. Xu. 2005. Activation of the gene promoter of barley beta-1,3-glucanase isoenzyme Gill is salicylic acid (SA)-dependent in transgenic rice plants. *Journal of Plant Res* : 215-216.
- Lisinska, G. and Leszczynski, W. 1989. *Potatoes Science and Technology*. The University Press. Nothen Ireland
- Lolaei, A., S. Mobasher., R. Bemana and N. Teymori. 2013. Role of Paclobutrazol on Vegetative and Sexual Growth of Plants. *International Journal of Agriculture and Crop Sciences*, 5(9): 958-961.



- Mark, R.J. & Brodie, B.B. 1998. *Potato cyst Nematodes Biology Distribution and Control*. New York: CAB international.
- Menhennet, R. 1979. *Use of Glass House Crops*. In D. R. Clifford and J. R. Lenton. Recent Development in the Use of Plant Growth Retardant. Brit. Plant Growth Regulator Group. London. Hal: 27-28.
- Mubarok, S., A. Salimah, Farida, Y. Rochayat dan Y. Setiati. 2012. Pengaruh Kombinasi Komposisi Media Tanam dan Konsentrasi Sitokinin terhadap Pertumbuhan *Aglaonema*. *J. Hort.* 22 (3): 251-257.
- Mulyani, Sri. 2006. *Anatomi Tumbuhan Kanisius*. Yogyakarta
- Noggle, G. R and G. J. Fritz. 1983. *Introductory Plant Physiology*. 2nd edition. Prentice Hall Inc. New Jersey. Hal: 260-261.
- Nurjanah, S., A. Nuraini dan J. S. Hamdani. 2014. Pengaruh Benzyl Amino Purine dan Coumarin terhadap Pertumbuhan dan Hasil Benih Kentang (*Solanum tuberosum L.*) g2 Kultivar Granola. *Agric.Sci. Journal*, 1(4) : 80-90.
- Nugroho.L.Hartanto, Purnomo, S. Issirep. 2002. *Struktur dan Perkembangan Tumbuhan*. Penerbit Swadaya. Jakarta
- Pandey, S. N. and a. Chandha. 1996. *A Textbook of Botany Plant Anatomy and Economic Botany* Volume III. Vikas Publishing House PVT Ltd. New Delhi. Hal: 99-103.
- Pandey, R., and R.M. Agarwal. 1998. Water stress-induced changes in proline contents and nitrat reductase activity in rice under light and dark conditions. *Physiol. Mol. Biol. Plant* 4: 53-57.
- Prahardini, E. R. 2006. *Pengolahan Pemberian Kentang Di Tingkat Penangkar*. Balai Pengkajian Teknologi Pertanian. Jawa Timur. Hal: 25-26.
- Rademacher, W. 2000. Growth retardants: Effect on gibberelin biosynthesis and other metabolic pathways. *Annu. Rev. Plant Physiol. Plant Mol. Biol.* 51:501-531.
- Raven and Johnson. 2001. *Biology Sixth Edition*. McGraw-Hill company. USA. p: 818.
- Rich, E. and Knight, K. 1983. *Artificial Intelligent*. Second Edition. Mc Graw-Hill Inc. Singapore.
- Rismunandar, A. 1992. Isolasi dan Karakterisasi Pati dari beberapa Varietas Jagung. *Thesis*. IPB. Bogor.
- Rubatzky, V.E. and Yamaguchi. 1995. *World Vegetables*. Van Nostrand Reinhold a Division of Internasional Thompson Publishing
- Salisbury, F. B. and C.W. Ross. 1995. *Plant Physiology*. Wadsworth Publishing Comp. New York.
- Sakya, A. T., Samanhudi, A. Yunus dan U. Barroroh. 2003. Pengaruh Coumarin dan Aspirin dalam Menginduksi Umbi Mikro Kentang (*Solanum tuberosum L.*) *Jurnal Agrosains*, 5(1): 20-24
- Sambeka, F., S. D. Runtunuwu dan J. E. X. Rogi. 2012. Efektifitas Waktu Pemberian dan Konsentrasi Paklobutrazol Terhadap Pertumbuhan dan Hasil Kentang (*Solanum tuberosum L.*) Varietas Superjohn. *Jurnal Eugenia*, 18(2):126-134.
- Satria, B. 2004. Perbanyak Vegetatif Klon Kentang Unggul (*Solanum tuberosum L.*) dengan pemberian Berbagai Konsentrasi BAP Pada Media MS Melalui Kultur Jaringan. *Jurnal Stigma*, 12(1): 19-24.
- Satyavathi, V.V., P.P. Jauhar, E.M. Elias, and M.B. Rao. 2004. *Genomics, molecular genetic and biotechnology effects of growth regulators on in vitro plant regeneration*. *Crop Sci.* 44:1839-1846.
- Sharma, O.P., 2002. *Plant Taxonomy*. Tata Mc Graw Hill Publishing Company Limited, New Dehli.
- Sitepu, R. 2007. Respon Pertumbuhan dan Produksi Tanaman Kentang (*Solanum tuberosum L.*) Terhadap Pupuk Kalium dan Paklobutrazol. Skripsi. USU. Medan.
- Sitompul, S., dan Guritno, B. 1995. *Analisis Pertumbuhan Tanaman*. Yogyakarta: Gadjah Mada University Press.
- Soelarso, R. B., 1997. *Budidaya Kentang Bebas Penyakit*. Kanisius, Yogyakarta.



- Suyitno, A dan Ratnawati. 2004. *Respon Konduktivitas Stomata dan Laju Transpirasi Rumput Blembem di Sekitar Sumber Emisi Gas Kawah Sikidang, Dieng*. Makalah yang disajikan dalam Seminar Nasional.
- Struik, P. C. And Wiersema, S. G. 2012. *Seed potato technology*. Wageningen Academic Publishers, PO BOX 220, AE Wageningen, The Netherland.
- Taiz, L. & E. Zeiger. 2002. *Plant Physiology 3rd edition*. Sinauer Associates. Inc. Publisher. Sunderland, Massachusetts. Hal : 540
- Tekalign, T. and P. S. Hammes. 2005. Growth responses of Potato (*Solanum tuberasom*) Grown in a Hot Tropical Lowland to Applied Paclobutrazol: 1. Shoot Attributes, Assimilate Production and Allocation. *New Zealand Journal of Crop and Holticultural Sciesnce*. 33 : 335-42.
- Tambaru, E dan R. Ura. 2012. *Keanekaragaman Perbandingan Tipe Stomata Daun Pohon Penghijaun Pada Lokasi Jln A.P. Pettarani dan Kawasan Industri di Kota Makassar*. FMIPA Biologi Universitas Hasanuddin. Makassar.
- Tantowijoyo W, Fliert E.V. 2006. *All About Potatoes, An Ecological Guide to Potato Integrated Crop Management*. CIP-ESEAP Region and FAO Regional Vegetable IPM program in South and Southeast Asia.
- Tsegaw, T. 2006. Response of Potato Grown Under Non-Inductive Greenhouse Conditions to Paclobutrazol: Shoot Growth, Chlorophyll Content, Net Photosynthesis, Assimilate Partitioning, Tuber Yield, Quality, and Dormancy. *University of Pretoria*. Pretoria.
- Vreugdenhil, D., J. Bradshaw, C. Gebharot, F. Govers, D. K. I. Mackerron, M.A. Taylor and H.A. Ross. 2007. *Potato Biology and Biotechnology : Advances and Perspectives*, Elsevier. UK. Hal: 222-235, 333, 360.
- Wattimena, G. A. 1995. *Pengembangan Propagul Kentang Unggul dan Bermutu*. Institut Pertanian Bogor. Bogor. Hal: 1-7.
- Widiastuti, Libria., Toharo., dan Sulistyaningsih, E. 2004. *Pengaruh Intensitas Cahaya dan Kadar Daminosida terhadap Iklim Mikro dan Pertumbuhan Tanaman Krisan dalam Pot*. Ilmu Pertanian. 11 (2): 35-42.
- Wilkins, M. B. 1992. *Fisiologi Tanaman*. (Diterjemahkan oleh Sutedjo M. M dan b Kartasapoetra). Bumi Aksara. Jakarta. Hal: 49-52.
- Yuwono, T. 2006. *Biotehnologi Pertanian*. Universitas Gadjah Mada. Yogyakarta.