



## LIST OF REFERENCES

- Agrios, G. N. 2005. *Plant Pathology*, 5<sup>th</sup> edn. Elsevier Academic Press, Burlington, MA, USA.
- Alexander, S. K., and D. Strete. 2001. *Microbiology: a photographic atlas for the laboratory*. Benjamin Cummings, San Francisco, CA.
- Aneja, K.R. 1996. *Experiments in Microbiology, Plant pathology, Tissue Culture and mushroom cultivation*. Wishwa Prakashan New Age International (P) Limited. New Delhi.
- Aura, K. 1963. Studies on the vegetatively propagatd onions cultivated in Finland, with special reference to flowering and storage. *Annales Agriculture Fenniae* 2 (Suppl. 5).
- Balows, A., and B. I. Duerden (ed). 1998. Systematic bacteriology, vol. 2, p. 106, 881. In L. Collier, A. Ballows, and M. Sussman (ed.), *Topley & Wilson's microbiology and microbial infections*. Oxford University Press, New York, NY.
- Barras, F., Van Gijsegem, F. and Chatterjee, A.K. 1994. Extracellular enzymes and pathogenesis of soft rot *Erwinia*. *Ann. Rev. Phytopathol.* 32, 201–234.
- Baswarsiati, L., Rosmahani and E. Korlina. 2000. Review pengkajian system usaha tani bawang merah di lahan sawah. *Eds. Soetjipto P.H. dkk.* Prosid. Sem. Hasil Penelitian/Pengkajian Teknologi Pertanian Mendukung Ketahanan Pangan Berwawasan Agribisnis. Badan Litbang Pertanian. Pusat Penelitian dan Pengembangan Sosial Ekonomi Pertanian. Bogor. 392-402.
- Bradbury, J.F. 1986. *Guide to plant Pathogenic Bacteria*. C.A.B. International.
- Burkholder W.H., 1948. Genus 1. *Pseudomonas* Migula. Bacterial plant pathogens. In: Breed R.S., Murray E.G.D., Hitchens A.P. (eds). *Bergey's Manual of Determinative Bacteriology*, 6th Ed. pp. 82-150. Baillière, Tindall and Cox, London, UK and Williams and Wilkins, Baltimore, MD,USA.
- Burkholder W.H., 1950. Sour skin, a bacterial rot of onion bulbs. *Phytopathology* 40: 115-117.



- Charkowski, A., Cui, Y., Hasegawa, H., Leigh, N., and Chatterjee, A. K. 2006. The soft rot *Erwinia* pp 423-505. In Gnanamanicman, S. S. Ed Plant Associated Bacteria. Netherland.
- Coenye, T., and Vandamme, P. 2003. Intragenomic heterogeneity between multiple 16S ribosomal RNA operons in sequenced bacterial genomes. *FEMS Microbiol.*
- Conn, H. J., and R. S. Breed. 1919. The use of the nitrate-reduction test in characterizing bacteria. *J. Bacteriol.* 4:267–290.
- Darling, D.C. and Brickell, P.M. 1994. *Nucleic Acid Blotting – The Basis*. IRL Press, 111 pp.
- De Boer, S.H. and Ward, L.J. 1995. PCR detection of *Erwinia carotovora subsp.atroseptica* associated with potato tissue. *Phytopathology* 85, 854 – 858.
- Dickey, R. S. and Kelman, A. 1988. ‘Caratovora’ or soft rot group. In: *Laboratory guide for identification of plant pathogenic bacteria 2<sup>nd</sup> ed.* (ed. N.W. Schaad.). APS Press St. Paul, Minnesota. Pp.81-84.
- Fahy, P.C. and Hayward, A.C. 1983. *Plant Bacterial Disease (a Diagnostic Guide)*. Academic Press, Sydney, New York, London, page 349.
- Fritsch, R. M., and N. Friesen, 2002. "Chapter 1: Evolution, Domestication, and Taxonomy". In H. D. Rabinowitch and L. Currah. *Allium Crop Science: Recent Advances*. Wallingford, UK: CABI Publishing.
- Gabriel, D.W. and De Feyter, R. 1992. RFLP analyses and gene tagging for bacterial identification and taxonomy. In: *Molecular Plant Pathology. Vol.1, A Practical Approach*. (S.J. Gurr, M.J.McPherson and D.J. Bowles,eds). IRL Press, Oxford. Pp. 51-66.
- Gevers, D., Huys, G., and Swings, J. 2001. Applicability of rep-PCR fingerprinting for identification of *Lactobacillus* species. *FEMS Microbiology Letters*, 205, 31-36.
- Green, and Aliza. 2004. *Field Guide to Produce: How to Identify, Select, and Prepare Virtually Every Fruit and Vegetable at the Market*, Quirk Books.
- Huang, W. M. 1996 Bacterial diversity based on typeII DNA topoisomerase genes, *Ann. Rev. Genet.* 30:79–107.



- Hulton C.S.J., Higgins C.F., and Sharp P.M. 1991. ERIC sequences: a novel family of repetitive elements in the genomes of *Escherichia coli*, *Salmonella typhimurium* and other enteric bacteria. *Mol. Microbiol.* 5: 825–834.
- Hunt, M. B., and B. Brenda. 1986. *High-Yield Gardening*, Pennsylvania: Rodale Press.
- Hyman, L.J., Dewasmes, V., Toth, I.K., and Perombelon, M.C.M. 1997. Improved PCR detection sensitivity of *Erwinia carotovora subsp. atroseptica* in potato tuberpeel extract by prior enrichment on a selective medium. *Letters Appl. Microbiol.* 25, 143 –147.
- Janse, J.D., and Spit, B.E. 1989. A note on the limitations of identifying soft rot erwinias by temperature tolerances and sensitivity to erythromycin on a pectate medium. *J. Phytopathology* 125, 265 – 268
- Jones, H. A., and Mann, L. K. 1963. *Onion and their Allies*. Leonard Hill. London.
- Jones, D.A.C., Hyman, L.J., Tumeseit, M., Smith, P., and Perombelon, M.C.M. 1994. Blackleg potential of potato seed: determination of tuber contamination by *Erwiniacarotovora subsp. atroseptica* by immunofluorescence colony staining and stock and tuber sampling. *Ann. Appl. Biol.* 124, 557 – 568.
- Kelman, A., and Dickey, R.S. 1980. Soft rot or carotovora“ group. – In: *Laboratory Guide for the Identification of Plant Pathogenic Bacteria* (ed. Schaad, N.W.). American Phytopathological Soc., St. Paul: pp. 31 – 35.
- King, E.O., Ward, M.K., and Raney, D.E. 1954. Two simple media for the demonstration of pyocyanin and fluorescin. *J. Lab. Clin. Med.* 44, 301 – 307.
- Leboffe MJ, Pierce BE. 2010. *Microbiology laboratory theory and application*, 3rd ed. Morton Publishing Company, Englewood, CO.
- Lelliott R.A., Billing E., and Hayword A.C., 1966. A determinative scheme for the fluorescent plant pathogenicPseudomonads. *J. Appl. Bacteriol.* 29: 470–489.
- Lelliott, R.A., and Stead, D.E. 1987. *Methods for the Diagnosis of Bacterial Diseases of Plants*, Vol. 2. Blackwell Scientific Publication, Oxford, London, p. 216.



- Louws, F. J., J. L. W. Rademaker, and F. J. De Bruijin. 1999. The Three Ds of PCR-based genomic analysis of phyto bacteria: Diversity, detection, and disease diagnosis. *Ann. Rev. Phytopathol.* 37:81-125
- Luisi, P. L., T. Oberholzer, and A. Lazcano. 2002. The notion of a DNA minimal cell: a general discourse and some guidelines for an experimental approach. *Helv. Chim. Acta* 85:1759-1777.
- Lupski, J. R., and G. M. Weinstock. 1992. Short, interspersed repetitive DNA sequences in prokaryotic genomes. *J. Bacteriol.* 174:4525-4529.
- Madigan MT, Martinko JM, Stahl DA, Clark DP. 2012. Brock biology of microorganisms, 13th ed. Benjamin Cummings, San Francisco, CA.
- Mark, G. L., Gitaitis, R. D., and Lorbeer, J. W. 2002. Bacterial disease of onion. In: Rabonowitch, H. D. and Currah, L. (eds) *Allium Crop Science: Recent Advances*. CAB International, Wallingford, UK. Pp. 267-292.
- Mahon, C. R., D. C. Lehman, and G. Manuselis. 2011. Textbook of diagnostic microbiology, 4th ed. W. B Saunders Co., Philadelphia, PA.
- Mohan, S. K., and Bijman, V. P. 1998. A soft rot of leaves, scapes and bulbs of onion seed crops caused by *Pseudomonas marginalis* pv. *marginalis*. (Abstr.) *Phytopathology* 88 (Suppl.): S64.
- Niepold, F. 1994. Anwendung der Polymerase-Kettenreaktion (PCR) zum Nachweis von *Erwinia carotovora* ssp. *atroseptica*, dem Erreger der Schwarzbeingkeit und Nassfäule bei Kartoffeln. *Nachrichtenbl. Deut. Pflanzenschutzd.* 46, 243 – 246.
- Ohuchi, A., Ohsawa, T., and Nishimura, J. 1983. Two pathogenic bacteria, *Erwinia rhapontici* (Millard 1924) Burkholder 1948 and *Pseudomonas marginalis* pv. *marginalis* (Brown 1918) Stevens 1925, causing a soft rot of onion. *Ann. Phytopathol. Soc. Jpn.* 49:619-626.
- Parsa T., Robin A., and Ann C. L. 2005. Bulb rot in live *Allium triquetrum* by *Pectobacterium carotovorum* subsp. *carotovorum*. RMIT University, Bundoora West Campus. *Eighteenth Australasian Weeds Conference*.
- Perombelon, M.C.M., Lumb, V. M., and Hyman, L.J. 1987. A rapid method to identify and quantify soft rot erwinias on seed potato tubers. *Eppo Bulletin* 18, 25 - 35.
- Pitman, A. R., Harrow, S. A., and Visnovsky, S. B. 2010. Genetic characterisation of *Pectobacterium wasabiae* causing softrot disease of potato in New Zealand. *European Journal of Pathology*, 126, 423-435.



- Prabowo. 2007. Budidaya bawang merah. <http://teknik-budidaya.blogspot.com>. Diakses pada tanggal 20 November 2013.
- Pommerville, J. C. 2011. Alcamo's fundamentals of microbiology, 9th ed., p. 177. Jones and Bartlett, Sudbury, MA.
- Prombelon, M.C.M., and Hyman, L.J. 1986. A rapid method for identifying and quantifying soft rot erwinias directly from plant material based on their temperature tolerances and sensitivity to erythromycin. J Appl. Bacteriol. 60, 61 – 66.
- Quimio, J.A. 1992. Annual report of the plant pathologist: July 17,1991 to July 16,1992. EnsetTeam Support Project Sidamo GamoGofa. Peasants Agricultural Development Program-PADEPIII. Awasa Research Center (IAR). Awasa, Ethiopia.
- Rabinowitch, H. D., and Kamenetsky, R. 2002. Shallot (*Allium cepa*, Aggregatum group). In Rabonowitch, H. D. and Currah, L. (eds) *Allium Crop Scinece: Recent Advances*. CAB International, Wallingford, UK. Pp. 187-232.
- Ramette, A., J. J. LiPuma., and J. M. Tiedje. 2005. Species abundance and diversity of *Burkholderia cepacia* complex in the environment. Appl. Environ. Microbiol. 71:1193–1201.
- Rukman, R. 1994. Bawang merah, Budidaya dan pengolahan pasca panen. Penerbit Kanisius, Yogyakarta.
- Sampaioa, J. L. M., Niero, C. V., Freitas, D., Lim, A. L., and Leao, S. C. 2006. Enterobacterial repetitive intergenic consensus PCR is a useful tool for typing mycobacterium chelonae and mycobacterium abscessus isolates [J]. Diagnostic Microbiology and Infectious Disease, 55(2): 107–118.
- Samson, R., Legendre, J. B., Christen, R., Fischer-LeSaux, M., Achouak, W., and Gardan, L. 2005. Transfer of *Pectobacterium chrysanthemi* (Burkholder *et al.* 1953) Brenner *et al.* 1973 and *Brenneria paradisiaca* to the genus *Dickeya* gen. nov. as *Dickeya chrysanthemi* comb. nov. and *Dickeya paradisiaca* comb. nov. and delineation of four novel species, *Dickeya dadanti* sp. nov., *Dickeya dianthicola* sp. nov., *Dickeya dieffenbachiae* sp. nov. and *Dickeya zae* sp. nov. Int. J. Syst. Evol. Microbiol. 55:115-1427.
- Saettler, A.W., Schaad, N.W., and Roth, D.A. 1989. Detection of bacteria in seed and other planting material. APS Press, St. Paul, Minnesota, USA, pp. 122.



- Semangun, H. 2007. Penyakit-penyakit Tanaman Hortikultura di Indonesia Edisi Kedua. Gadjah Mada University Press. Yogyakarta.
- Schaad, N., Jones, J.B., and Chun, W. 2001. Laboratory guide for identification of plant pathogenic bacteria. APS Press, St. Paul, Minnesota, USA.
- Schwartz, H. F., and Otto, K. 2000. First report of the bulb decay of onion by *Enterobacter cloacae* in Colorado. Plant Dis. 84:808.
- Schwartz, H. F., and Mohan, S. K., 2008. Compendium of Onion and Garlic Diseases and Pest Second Edition. The American Phytopathology Society. 3340 Pilot Knob Road. USA
- Seabrook and Peter. 1976. Complete Vegetable Gardener, London: Cassell.
- Sinnadurai and Suppiah. 1973. Shallot Farming in Ghana, New York: Economic Botany.
- Suhardi, E. D. 1988. Laporan Survei Hama dan Penyakit serta penggunaan Pestisida pada Sayuran Dataran Rendah di Indonesia. Kerjasama Proyek ATA-395 dan Balai Penel.Hortik., Lembang.
- Sumarni, N., dan A. Hidayat. 2005. Budidaya bawang merah. [http://litbang\\_deptan.go.id](http://litbang_deptan.go.id). Diakses pada tanggal 23 November 2008.
- Suslow T.V., Schroth M.N., and Isaka M., 1982. Application of a rapid method for Gram differentiation of plant pathogenic and saprophytic bacteria without staining. Phytopathology 72: 917–918.
- Sutaya, R.,G. Grubben, and H. Sutarno. 1995. Pedoman Bertanam Sayuran Dataran Rendah. UGM Press. Yogyakarta.
- Van Der Wolf, J.M., Hyman, L.J., Jones, D.A.C., Grevesse, C., Van Beckhoven, J.R.C.M., Van Vuurde, J.W.L., and Perombelon, M.C.M. 1996. Immunomagnetic separation of *Erwinia carotovora subsp. atroseptica* from potato peel extracts to improve detection sensitivity on a crystal violet pectate medium or by PCR. J. Appl. Bacteriol. 80, 487 – 495.
- Versalovic J., Schneid M., de Bruijn F.J. and Lupski J.R. 1994. Genomic fingerprinting of bacteria using repetitive sequence-based polymerase chain reaction. Methods Mol. Cell. Biol. 5:25–40.
- Walcott, R. R., Gitaitis, R. D., Castro, A. C., Sanders, F. H., and Diaz-Perez, J. C. 2002. Natural infestation of onion seed by *Pantoea ananatis*, casual agent of center rot. Plant Dis. 86:106-111.



- Walker TS, Bais HP, Déziel E, Schweizer HP, Rahme LG, Fall R, Vivanco JM (2004). "*Pseudomonas aeruginosa*-plant root interactions. Pathogenicity, biofilm formation, and root exudation". *Plant Physiol.* 134 (1): 320–331.
- Weisburg, W.G., Barns, S.M., Pelleteir, D.A., and Lane, D.J. 1991. 16S ribosomal DNA amplification for phylogenetic study. *J. Bacteriol.* 172 (2): 697-703.
- Wright, P. J., Clark, R. G., and Hale, C. N. 1993. A storage soft rot of New Zealand onions caused by *Pseudomonas gladioli* pv. *alliicola*. *N. Z. J. Crop Hortic. Sci.* 32:185-192.
- Wright, P. J., and Triggs, C. M. 2004. Effect of cultural practices at harvest on onion (*Allium cepa*) bulb quality and incidence of bacterial soft rot and fungal moulds after simulated shipping. *N. Z. J. Crop Hortic. Sci.* 32:185-192.
- Yanes-Morales. A., V. Catalan, D. Apraiz, M.J. Figueras, and A.J. Martinez-Murcia. 2003. Phylogenetic analysis of members of the genus *Aeromonas* based on *gyrB* gene sequences, *Int. J. Syst. Evol. Microbiol.* 53: 875–883.
- Yanes-Morales, M. D., L. Fucikovsky-Zak, J.W. Lorbeer, A. Gonzalez-Jimene and S. Aranda-Ocampo. 2003. *Erwinia chrysanthemi* Burkholder, McFadden and Dimock and other phyto bacteria causal agents of onion (*Allium cepa* L.) bulb decay and their detection. *Revista Mexicana de Fitopatologia* 21 (2): 189-198.