



DAFTAR PUSTAKA

- Achadian, E., A. Kristini, R. Magarey, N. Sallam, P. Samson, F.R. Goebel & K. Lonie. 2012. *Sugarcane pests and diseases - Field guide - Indonesian version*. Indonesian Sugar Research Institute, BSES Limited, Australian Centre for International Research.
- Ahmad, P., M. Ashraf, K.R. Hakeem, M.M. Azooz, S. Rasool, R. Chandna & N. A. Akram. 2012. Potassium starvation-induced oxidative stress and antioxidant defense responses in *Brassica juncea*. *J Plant Interactions* 9:1-9.
- Agrios, G.N. 2005. *Plant Pathology*. 5th edition. Elsevier Academic Press. California. 922 p.
- Akgul, D.S. & A. Erkilic. 2016. Effect of wheat cultivars, fertilizers, and fungicides on *Fusarium* foot rot disease of wheat. *Turk J Agri For.* 40:101-108.
- Alexopoulos, J.C. & C.W. Mims. 1979. *Introductory Mycology*. 3rd ed. John Wiley and Son. New York. 868 p.
- Allen, S.J. & D.B. Nehl. 1997. Soil-borne inoculum. *In*: J.F. Brown, H.J. Ogle (Eds.). *Plant Pathogens and Plant Diseases*. Rockvale Publication, New South Wales. 207-218.
- Allen, T., B.H. Bluhm, K. Conner, V. Doyle, T. Price, E. Sikora, R. Singh, T. Spurlock, M. Tomaso-Peterson & T. Wilkerson. 2017. First description of the causal agent of taproot decline of soybean, an emerging disease in the southern United States. *Plant Health Prog.* 18:35-40.
- Amtmann, A., S. Troufflard, P. Armengaud. 2008. The effect of potassium nutrition on pest and disease resistance in plants. *Physiologia Plantarum*. 133: 682-691. <https://doi.org/10.1111/j.1399-3054.2008.01075.x>.
- Anonim. 2016. *Xylaria warburgii* Henn. Dalam <http://www.gbif.org/species/5487786>. (diakses 31 Mei 2016).
- Anonim. 2017. *Statistik Perkebunan Indonesia Komoditas Tebu 2016-2018*. Sekretariat Direktorat Jenderal Perkebunan, Direktorat Jenderal Perkebunan, Kementerian Pertanian.
- Anonim. 2019. *Food and Agriculture Organization Statistics*. Dalam <http://www.fao.org/faostat/en/> Diakses 29 Januari 2019.
- Ashley, M.K., M. Grant, A. Grabov. 2006. Plant responses to potassium deficiencies: A role for potassium transport proteins. *J. Exp. Bot.* 57:425-436.
- Aznar, A., N.W.G. Chen, M. Rigault, N. Riache, D. Joseph, D. Desmaële, G. Mouille, S. Boutet, L. Soubigou-Taconnat, J-P. Renou, S. Thomine, D. Expert & A Dellagi. 2014. Scavenging iron: a novel mechanism of plant immunity activation by microbial siderophores. *Plant Physiol.* 164:2167-2183.
- Aznar, A., N.W.G. Chen, S. Thomine & A. Dellagi. 2015. Immunity to plant pathogens and iron homeostasis. *Plant Sci.* 240:90-97.
- Barnabas, L., N.M.R. Ashwin, A.R. Sundar, P. Malathi & R. Viswanathan. 2017. Putative orthologs of *Ustilago maydis* effectors screened from the genome of sugarcane smut fungus - *Sporisorium scitamineum*. *Australasian Plant Pathol.* DOI 10.1007/s13313-017-0471-6.
- Barnabas, L., N.M.R. Ashwin, K. Kaverinathan, A.R. Trentin, M. Pivato, A.R. Sundar, P. Malathi, R. Viswanathan, O.B. Rosana, K. Neethukrishna, P. Carletti, G. Arrigoni,



- Masi, G.K.Agrawal & R Rakwal. 2016. Proteomic analysis of a compatible interaction between sugarcane and *Sporisorium scitamineum*. *Proteomics* 16:1111-1122.
- Ballini, E., T.T. Nguyen & J.B. Morel. 2013. Diversity and genetics of nitrogen-induced susceptibility to the blast fungus in rice and wheat. *Rice* 6, 32. doi:10.1186/1939-8433-6-32
- Bande, L.O.S. 2012. Epidemi penyakit busuk pangkal batang lada di provinsi Sulawesi Tenggara. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Bande, L.O.S., B. Hadisutrisno, S. Somowiyarjo & B.H. Sunarminto. 2015. Epidemi penyakit busuk pangkal batang lada pada kondisi lingkungan yang bervariasi. *JHPT Tropika* 15(1):95-103.
- Baquero, J.E., R. Ralisch, C.C. Medina, J.T. Filho & M.F. Guimarães. 2012. Soil physical properties and sugarcane root growth in a red Oxisol. *R. Bras. Ci. Solo* 36:63-70.
- Baxter, A., R. Mittler & N. Suzuki. 2014. ROS as key players in plant stress signalling. *J Experimental Botany* 65:1229-1240.
- Benson, D.M. 1994. Inoculum. *In*: C.L. Campbell, D.M. Benson (Eds.). *Epidemiology and Management of Root Disease*. Springer-Verlag. Berlin. 1-33.
- Berbegal, M., A. Ortega, J. García-Jiménez & J. Armengol, 2007. Inoculum density-disease development relationship in *Verticillium* wilt of artichoke caused by *Verticillium dahliae*. *Plant Dis.* 91:1131-1136.
- Berta, G. S. Sampo, E. Gamalero, N. Massa & P. Lemanceau. 2005. Suppression of *Rhizoctonia* root-rot of tomato by *Glomus mossae* BEG12 and *Pseudomonas fluorescens* A6RI is associated with their effect on the pathogen growth and on the root morphogenesis. *Eur. J. Plant Pathol* 111:279-288.
- Bhadhuri, D., R. Rakshit & K. Chakraborty. 2014. Primary and secondary nutrients- a boon to defense system against plant diseases. *Int J Bio-Res Stress Manage* 5:461-466
- Bowen, K.L. 1997. Analytic pola of disease progression. *In*: L.J. Francl, D.B. Neher (Eds.). *Exercises in Plant Disease Epidemiology*. APS Press. Minnesota. 16-19.
- Bowen, K.L. 2004. Plant disease epidemiology. *In*: R.N. Trigiano, M.T. Windham, A.S. Windham (eds.). *Plant Pathology: Concepts and Laboratory Exercises*. CRC Press LLC, Florida. 476-499.
- Bower, J.H., R.M. Sonoda & D.J. Mitchell. 1990. Path coefficient analysis of the effect of rainfall variables on the epidemiology of *Phytophthora* blight of pepper caused by *Phytophthora capsici*. *Phytopathol.* 80:1439-1446.
- Broadley, M., P. Brown, I. Cakmak, Z. Rengel & F. Zhao. 2012. Function of Nutrients: Micronutrients. *In*: Marschner, P. (Eds.). *Marschner's Mineral Nutrition of Higher Plants*. 3rd ed. Academic Press. San Diego. 191-248.
- Brown, J. 1997. Survival and dispersal of plant parasites: General concepts. *In*: J.F. Brown, H.J. Ogle (Eds.). *Plant Pathogens and Plant Diseases*. Rockvale Publication. New South Wales. 195-206.
- Bruhn, J.N., J.D. Mihail & T.R. Meyer. 1996. Using spatial and temporal patterns of *Armillaria* root disease to formulate management recommendations for Ontario's black spruce (*Picea mariana*) seed orchards. *Canadian J. Forest Research* 26:298-305



- Campbell, C.L. & D.A. Neher. 1996. Challenges, Oppurtunities and Obligations in Root Disease Epidemiology and Management. *In* R. Hall (eds.). Principles and Practice of Managing Soil Borne Plant Pathogens. APS Press. Minnesota. 20-49.
- Campbell, C.L. & D.M. Benson. 1994. Spatial aspects of the development of root disease epidemics. *In*: C.L. Campbell, D.M. Benson (Eds.). Epidemiology and Management of Root Disease. Springer-Verlag. Berlin. 195-243.
- Campbell, C.L. & J.P. Noe. 1985. The spatial analysis of soilborne pathogens and root diseases. *Ann. Rev. Phytopathol.* 23:129-148.
- Cherubin, M.R. D.L. Karlen, A.L.C. Franco, C.A. Tormena, C.E.P. Cerri, C.A. Davies & C.C. Cerri. 2016. Soil physical quality responsse to sugarcane expansion in Brazil. *Geoderma* 267:156-168.
- Choi, H.K., A. landolino, F.G. Silva & D.R. Cook. 2013. Water deficit modulates the responsse of *Vitis vinifera* to the Pierce's disease pathogen *Xylella fastidiosa*. *Mol. Plant Microbe Interact* 26:643-657.
- Clarkson J.P., L. Fawcett, S.G. Anthony & C.Young. 2014. A Pola for *Sclerotinia sclerotiorum* infection and disease development in Lettuce, based on the effects of temperature, relative humidity and ascospore density. *PLoS ONE* 9(4): e94049.
- Colhoun, J. 1973. Effects of environmental factors on plant disease. *Annu. Rev. Phytopathol.* 11:343-364.
- Cook, D.E., C.H. Mesarich & B.P.H.J. Thomma. 2015. Understanding plant immunit as a surveillance system to detect invasion. *Annu. Rev. Phytopathol.* 53:25.1-25.23
- Cook, R.J. & K.F. Baker. 1983. Biological Control of Plant Pathogens. APS Press. New York. 433 p.
- Cooke, B.M. 2006. Disease assessment and yield loss. *In*: B.M. Cooke, D.G. Jones, and B. Kaye (Eds.). *The Epidemiology of Plant Diseases*. 2nd ed. Springer-Verlag. Denhaq. 43-80.
- Daranas, N., E. Badosa, J. Francés, E. Montesinos & A. Bonaterra. 2018. Enhancing water stress tolerance improves fitness in biological control strains of *Lactobacillus plantarum* in plant environments. *PLoS One* 13:1-21.
- Davis, J.L., P. Armengaud, T.R. Larson, I. A. Graham, P.J. White, A.C. Newton & A. Amtmann. 2018. Contrasting nutrient–disease relationships: Potassium gradients in barley leaves have opposite effects on two fungal pathogens with different sensitivities to jasmonic acid. *Plant Cell Environ.* 41:2357-2372.
- Debora, A., B.D. Gossen & M.R. McDonal. 2012. Infection and development of *Plasmodiopora brassicae* in resistant and susceptible canola cultivars. *Canadian J Plant Pathol.* 34:239-247.
- Dennis, R.W.D. 1974. Xylariaceace from Papua and New Guinea. *Buul. Mens. Soc. Linn. Lyon*, num. spec 43:127-138.
- Dennis, R.W.G. 1956. Some Xylarias of tropical America. *Kew Bulletin* 11:401-444.
- Dennis, R.W.G. 1957. Further notes on tropical American Xylariaceae. *Kew Bulletin* 12: 297-332.
- Dennis, R.W.G. 1961. Xylarioideae and Thamnomycetoideae of Congo. *Bulletin du Jardin Botanique de l'État, Bruxelles* 31:109-154.
- Deshmukh, S.K., M.K. Gupta, V. Prakash & S. Saxena. 2018. Endophytic fungi: A source of potential antifungal compounds. *J. Fungi* 4:77. doi:10.3390/jof4030077



- De Wita, P.J.G.M., R. Mehrabi, H.A. van Den Burg & I. Stergiopoulos. 2009. Fungal effector proteins : Past, present and future. *Molecular Plant Pathol.* 10:735-747.
- Doehlemann, G., S. Reissmann, D. Assmann, M. Fleckenstein & R. Kahmann R. 2011. Two linked genes encoding a secreted effector and a membrane protein are essential for *Ustilago maydis*-induced tumour formation. *Mol. Microbiol.* 81:751-766.
- Dong, X., M. Wang, N. Ling, Q. Shen & S. Guo. 2016. Effects of iron and boron combinations on the suppression of Fusarium wilt in banana. *Scientific reports* 6: 38944. doi:10.1038/srep38944
- Dordas, C. 2008. Role of nutrients in controlling plant diseases in sustainable agriculture. A Review. *Agron. Sustain. Dev.* 28:33-46..
- Dufault, N.S., E.D. De Wolf, P.E. Lipps & L.V. Madden. 2006. Role of temperature and moisture in the production and maturation of *Gibberella zeae* perithecia. *Plant Dis* 90:637-644.
- Edwards, R.L., N. Jonglaekha, A. Kshirsagar, D.J. Maitland, S. Mekkamol, L.K. Nugent, C. Phosri, S. Rodtong, N. Ruchichachorn, E. Sangvichien, G.P. Sharples, N. Sihanonth, S. Theinhirun, A.J.S. Whalley & M.A. Whalley. 2003. The Xylariaceae as phytopathogens. *Recent. Res. Dev. Plant. Sci.* 1:1-19.
- El-Hamalawi, Z. A. & M.E. Stanghellini. 2005. Disease development on lisianthus following aerial transmission of *Fusarium avenaceum* by adult shore flies, fungus gnats, and moth flies. *Plant Dis.* 89:619-623.
- Erwin, C.E. & O.K. Ribeiro. 1996. *Phytophthora Disease Worldwide*. APS Press. Minnesota. 562 p.
- Esh, A.M.H., A.A. Guirgis, M.M.A. El-kholi, E.A. El-Absawy, M.I. Nasr & E.H. Hassanien. 2014. The Activity of pathogenesis related proteins in smut resistant and susceptible sugarcane (GT54-9) mutants induced by gamma radiation. *Adv Plants Agric Res.* 1: 00024.
- Esiegbuya, D.O., F.I. Okungbowa, E.A. Oruade-Dimaro & C.E. Airede. 2013. First report of postharvest dry rot of *Raphia hookeri* fruits caused by *Xylaria feejeensis*. *J. Plant Path* 95(2):449.
- Fageria, N.K., V.C. Baligar & C. Allan. 2011. *Growth and mineral nutrition of field crops*. 3rd ed. CRC Press. Boca Raton 640 p.
- Fang, F.C. 2011. Antimicrobial actions of reactive oxygen species. *mBio* 2(5): e00141-11. doi:10.1128/mBio.00141-11.
- Fang, J.G., W.H. Hsieh, C.H. Hu & C.S. Lee. 1986a. Survival of *Xylaria* sp. in the soil and the effect of green manure application on disease incidence. Report of The Taiwan Sugar Research Institute. 112:21-26.
- Fang, J.G., C.S. Lee & W.H.Hsieh. 1986b. The perfect state of root and basal stem rot of sugarcane. *Proc. ISSCT* 19:370-374
- Fang, J.G. & C.S. Lee. 1995. Vegetative compatibility and virulence of *Xylaria* cf *warburgii*, A causal organism of root and basal stem rot of sugarcane. *Proc. ISSCT* 21:527-534
- Fang, J.G. & C.S. Lee. 1999. Penetration and infection of sugarcane by *Xylaria* cf *warburgii*. Report of The Taiwan Sugar Research Institute. 59-66.



- Fang, J.G. & C.S. Lee. 2000. Root and basal stem rot. *In*: P. Rott, R.A. Bailey, J.C. Comstock, B.J. Croft, A.S. Saumtally (eds.). A guide to Sugarcane Diseases. CIRAD-ISSCT.343 p.
- Ferreira, D.A., H.C.J. Franco, R. Otto, A.C. Vitti, C. Fortes, C.E. Faroni, A.L. Garside & P.C.O. Trivelin. 2016. Contribution of N from green harvest residues for sugarcane nutrition in Brazil. *GCB Bioenergy*. 8:859-866.
- Felsenstein, J. 1985. Confidence limits on phylogenies: An approach using the bootstrap. *Evolution* 39:783-791.
- Fiers, M., V. Edel-Hermann, C. Chatot, Y. Le Hingrat, C. Alabouvette & C. Steinberg. 2012. Potato soil-borne diseases: Review. *Agron.Sustain. Dev.* 32:93-132.
- Fortes, C., A.C. Vitti, R. Otto, D.A. Ferreira, H.C.J. Franco & P.C.O. Trivelin. 2013. Contribution of nitrogen from sugarcane harvest residues and urea for crop nutrition. *Sci. Agric.* 70:313-320.
- Fournier, J., F. Flessa, D. Peršoh & M. Stadler. 2011. Three new *Xylaria* species from southwestern Europe. *Mycological Progress* 10: 33-52.
- Guedegbe, G.J., E. Miambi, A. Pando P. Houngnandan & C. Rouland-Lefevre. 2009. Molecular diversity and host specificity of termite-associated *Xylaria*. *Mycologia* 101:686-691.
- Ghaemi, A., A. Rahimi & Z. Banihashemi. 2010. Effects of water stress and *Fusarium oxysporum* f. sp. *Lycopersici* on growth (leaf area, plant height, shoot dry matter) and shoot nitrogen content of tomatoes under greenhouse conditions. *Iran Agric. Res.* 29:51-62.
- Gill, J.S., K. Sivasithamparam & K.R.J. Smettem. 2000. Soil type with different texture affects development of *Rhizoctonia* root rot of wheat seedlings. *Plant and Soil* 221:113-120.
- Graham, D.R. & M.J. Webb. 1991. Micronutrients and disease resistance and tolerance in plants. *In*: Mortvedt J.J., F.R. Cox, L.M. Shuman & R.M. Welch (Eds.). *Micronutrients in Agriculture*, 2nd ed. Soil Science Society of America, Inc. Wisconsin. 329-370.
- Greenshields, D.L., G. Liu & Y. Wei. 2007. Roles of iron in plant defence and fungal virulence. *Plant Signal Behav.* 2:300-302
- Handoko, S. 2014. Kajian epidemic penyakit kanker batang du di Provinsi Jambi. Disertasi. Universitas Gadjah Mada. Yogyakarta.
- Harris, K., I.M. Young, C.A. Gilligan, W. Otten & T. Ritz. 2003. Effect of bulk density on spatial organization of fungus *Rhizoctonia solani* in soil. *FEMS Microbiol. Ecol.* 44: 45-56.
- Hashemi, S.A., R. Zare, S.A. Khodaparast & S.A. Elahinia. 2015. A New *Xylaria* species from Iran. *Mycologia Iranica* 2(1):1-10.
- Hawkesford, M., W. Horst, T. Kichey, H. Lambers, J. Schjoerring, I. S. Møller & P. White. 2012. Functions of Macronutrients. *In*: Marschner, P. (Eds.). *Marschner's Mineral Nutrition of Higher Plants*. 3rd ed. Academic Press. San Diego. 134-188.
- Hemetsberger, C., A.N. Mueller, A. Matei, C. Herrberger, G. Hensel, J. Kumlehn, B. Mishra, R. Sharma, M. Thines, R. Huckelhoven & G. Doehlemann. 2015 The fungal core effector Pep1 is conserved across smuts of dicots and monocots. *New Phytol.* 206:1116-1126.



- Hernandez, M., N. Fernandez-Garciaa, J. Garcia-Garmaa, J.S. Rubio-Asensioa, F. Rubiob & E. Olmos. 2012. Potassium starvation induces oxidative stress in *Solanum lycopersicum* L. roots. *J Plant Physiol.* 169:1366-1374.
- Hersanti & R. Sitepu. 2005. Identifikasi penyebab penyakit lapuk akar dan pangkal batang (LAPB) tebu di PT Gunung Madu Plantations Lampung Tengah. *J Biotika* 4:24-27.
- Hoffland, E., M.J. Jeger & M.L. van Beusichem. 2000. Effect of nitrogen supply rate on disease resistance in tomato depends on the pathogen. *Plant & Soil* 218:239-247.
- Hogenhout, S.A., R.A.L. van der Hoorn, R. Terauchi & S. MPMI Vol. 22, No. 2, 2009, pp. 115–122. Kamoun. 2009. Emerging concepts in effector biology of plant-associated organisms. *MPMI* 22:115-122.
- Hornby, D. & C.A. I. Goring. 1972. Effects of ammonium and nitrate nutrition on take-all disease on wheat in pots. *Ann. Appl. Biol.* 70:225-231.
- Howard, D.D., A.Y. Chambers, P.W. Brawley & T.D. Bush. 1992. Fertilization effects on soybean sudden death syndrome. *Better crops.* 77:14-15.
- Hsieh, H.M., C.R. Lin, M.J. Fang, J.D. Rogers, J. Fournier, C. Lechat & Y-M. Ju. 2010. Phylogenetic status of *Xylaria* subgenus *Pseudoxylaria* among taxa of the subfamily *Xylarioideae* (*Xylariaceae*) and phylogeny of the taxa involved in the subfamily. *Molecular Phylogenetics and Evolution* 54:957-969.
- Huang, G., R. Wang, L. Guo & N. Liu. 2015. Three new species of *Xylaria* from China. *Mycotaxon.* 130:299-304.
- Hua Li, K. Sivasithamparam & M.J. Barbetti. 2007. Soilborne ascospores and pycnidiospores of *Leptosphaeria maculans* can contribute significantly to blackleg disease epidemiology in oilseed rape (*Brassica napus*) in Western Australia. *Australasian Plant Pathology* 36:439-444.
- Huber D.M. 1980. The role of mineral nutrition in defense. *In*. Horsfall J.G. & E.B. Cowling (Eds.). *Plant Disease, An Advanced Treatise, Volume 5, How Plants Defend Themselves.* Academic Press, New York. 381-406.
- Huber, D.M. & S. Haneklaus. 2007. Managing nutrition to control plant disease. *Landbauforschung Völkenrode.* 57:313-322.
- Huber, D., V. Römheld & M. Weinmann. 2012. Relationship between nutrition, plant diseases and pests. *In*: Marschner, P. (Eds.). *Marschner's Mineral Nutrition of Higher Plants.* 3rd ed. Academic Press. San Diego. 134-188.
- Huber, D.M. & R.D. Watson. 1974. Nitrogen form and plant disease. *Annu. Rev. Phytopathol.* 12:139-165.
- Husbands, D.R. H. Urbina, S.M. Lewis & M.C. Aime. 2018. *Xylaria karyophthora*: A new seed-inhabiting fungus of Greenheart from Guyana. *Mycologia.* doi:10.1080/00275514.2018.1457349
- Hwang, S.F., H.U. Ahmed, Q. Zhou, A. Rashid, S.E. Strelkov, B.D. Gossen, G. Peng & G.D. Turnbull. 2013. Effect of susceptible and resistant canola plant on *Plasmodiophora brassicae* resting spore population in the soil. *Plant Pathol.* 62:404-412.
- Hwang, S.F., H.U. Ahmed, Q. Zhou, S.E. Strelkov, B.D. Gossen, G. Peng & G.D. Turnbull. 2011. Influence of cultivar resistance and inoculum density on root hair infection of canola (*Brassica napus*) by *Plasmodiophora brassicae*. *Plant Pathol.* 60: 820-829.



- Hwang, S.F., H.U. Ahmed, Q. Zhou, S.E. Strelkov, B.D. Gossen, G. Peng & G.D. Turnbull. 2012. Assessment of the impact of resistant and susceptible canola on *Plasmodiophora brassicae* inoculum potential. *Plant Pathol.* 61:945-952.
- Indarwanto, C., Purwono, Siswanto, M. Syakir & W.M.S. Rumini. 2010. Budidaya dan pascapanen tebu. ESKA Media. Jakarta. 35 p.
- Jones, J.D.G. & J.L. Dangl. 2006. The plant immune system. *Nature* 444:323-329.
- Ju, Y-M. & H.M. Hsieh. 2007. *Xylaria* species associated with nests of *Odontotermes formosanus* in Taiwan. *Mycologia* 99:936-957.
- Ju, Y.M., J.D. Rogers & H.M. Hsieh. 2018. *Xylaria* species associated with fallen fruits and seeds. *Mycologia*. 110(4):726-749.
- Keane, P. & A. Kerr. 1997. Factor affecting disease development. *In*: J.F. Brown, H.J. Ogle (Eds.). *Plant Pathogens and Plant Diseases*. Rockvale Publication, New South Wales. 287-298.
- Kieu, N.P., A. Aznar, D. Segond, M. Rigault, E. Simond-Cote, C. Kunz, M.C. Soulie, D. Expert & A. Dellagi. 2012. Iron deficiency affects plant defence responses and confers resistance to *Dickeya dadantii* and *Botrytis cinerea*. *Mol Plant Pathol* 13: 816-827.
- Kim, M.J., S. Ciani & D.P. Schachtman. 2010. A Peroxidase contributes to ROS production during Arabidopsis root response to potassium deficiency. *Molecular Plant* 3:420-427.
- Ko, W.H. & R.K. Kunimoto. 1991. Quick decline of macadamia trees - association with *Xylaria arbuscula*. *Plant Pathol.* 40:643-644.
- Koen E., P. Trapet, D. Brulé, A. Kulik, A. Klinguer, L. Atauri-Miranda, R. Meunier-Prest, G. Boni, G. Glauser, B. Mauch-Mani, D. Wendehenne & A. Besson-Bard. 2014. Beta-aminobutyric acid (BABA)-induced resistance in *Arabidopsis thaliana*: link with iron homeostasis, *Mol. Plant Microbe Interact.* 27:1226-1240.
- Kshirsagar, A.S., S.M. Rhatwal & R.V. Gandhe. 2009. The genus *Xylaria* from Maharashtra, India. *Indian Phytopathol.* 62(1):54-63.
- Kumar, A., B.R. Maurya, R. Raghuwanshi, V.S. Meena & M.T. Islam. 2017. Co-inoculation with Enterobacter and Rhizobacteria on yield and nutrient uptake by wheat (*Triticum aestivum* L.) in the alluvial soil under indo-gangetic plain of India. *J! Plant Growth Regul.* doi:10.1007/s00344-016-9663-5
- Lecompte, F., M. Abro & P. Nicot. 2010. Contrasted responses of *Botrytis cinerea* isolates developing on tomato plants grown under different nitrogen nutrition regimes. *Plant Pathology* 59:891-899.
- Lecompte, F., P.C. Nicot, J. Ripoll, M.A. Abro, A.K. Raimbault, F. Lopez-Lauri & N. Bertin. 2017. Reduced susceptibility of tomato stem to the necrotrophic fungus *Botrytis cinerea* is associated with a specific adjustment of fructose content in the host sugar pool. *Annals of Botany* 119: 931-943.
- Leclerc, M., T. Dore, S.A., Gilligan, P. Lucas & J.A.N. Filipe. 2013. Host growth can cause invasive spread of crops by soilborne pathogens. *PLoS ONE* 8(5): e63003. doi:10.1371/journal.pone.0063003
- Lee, J.S., K.S. Ko & H.S. Jung. 2000. Phylogenetic analysis of *Xylaria* based on nuclear ribosomal ITS1-5.8S-ITS2 sequences. *FEMS Microbiol. Lett.* 187:89-93.



- Lima, K.S., O. N. de Jesus, T.L. Soares, S.A.S. de Oliveira, F. Haddad, E.A. Girardi. 2019. Water deficit increases the susceptibility of yellow passion fruit seedlings to *Fusarium* wilt in controlled conditions. *Scientia Horticulturae* 243:609-621
- Linquist, B.A., E. Byous, G. Jones, J.F. Williams, J. Six, W. Horwath & C. van Kessel. 2008. Nitrogen and Potassium Fertility Impacts on Aggregate Sheath Spot Disease and Yields of Rice. *Plant Prod. Sci.* 11:260-267.
- Liu, F., N. Huang, L. Wang, H. Ling, T. Sun, W. Ahmad, K. Muhammad, J. Guo, L. Xu, S. Gao, Y. Que & Y. Su. 2018. A Novel L-ascorbate peroxidase 6 gene, *ScAPX6*, plays an important role in the regulation of response to biotic and abiotic stresses in sugarcane. *Front. Plant Sci.* 8:2262. doi:10.3389/fpls.2017.02262.
- Liu, G.S., D.L. Greenshields, R. Sammynaiken, R.N. Hirji, G. Selvaraj & Y.D. Wei. 2007. Targeted alterations in iron homeostasis underlie plant defense responses. *J Cell Sci* 120:596-605.
- Lo Presti, L., D. Lanver, G. Schweizer, S. Tanaka, L. Liang, M. Tollot, A. Zuccaro, S. Reissmann & R. Kahmann. 2015. Fungal effectors and plant susceptibility. *Annual Review of Plant Biology* 66:513-545.
- Lung-Escarmant, B. & D. Guyon. 2004. Temporal and spatial dynamics of primary and secondary infection by *Armillaria ostoyae* in a *Pinus pinaster* plantation. *Phytopathol.* 94:125-131.
- Ma, H-X., L. Vasilyeva & Y. Li. 2011. A new species of *Xylaria* from China. *Mycotaxon.* 116:151-155.
- Ma, H-X., L. Vasilyeva & Y. Li. 2013. The genus *Xylaria* (*Xylariaceae*) in the South of China-6. A new *Xylaria* species based on morphological and molecular characters. *Phytotaxa* 147(2):48-54.
- MacDonald, J.D. 1994. The Soil Environment. *In*: C.L. Campbell, D.M. Benson (Eds.). *Epidemiology and Management of Root Disease*. Springer-Verlag. Berlin. 82-116.
- MacDonald, J.D. & J.M. Duniway. 1978. Influence of soil texture and temperature on motility of *Phytophthora cryptogea* and *P. megasperma* zoospores. *Phytopathol.* 68:1627-1630.
- Macur, R.E., D.E. Mathre & R.A. Olsen. 1991. Interactions between iron nutrition and Verticillium wilt resistance in tomato. *Plant Soil* 134:281-286
- Madden, L.V. & C.L. Campbell. 1990. Nonlinear disease progress curves. *In*: J. Kranz (Eds.). *Epidemics of Plant Diseases: Mathematical Analysis and Polaing*. 2nd ed. Springer-Verlag. Berlin. 181-229.
- Manohara, D., D. Wahyuno & R. Noveriza. 2005. Penyakit busuk pangkal batang tanaman lada dan strategi pengendaliannya. *Perkembangan Teknologi TRO* 17 (2) :41-51.
- Manstretta, V. & V. Rossi. 2015. Effects of Weather variables on ascospore discharge from *Fusarium graminearum* perithecia. *PLoS ONE* 10(9):e0138860. doi:10.1371/journal.pone.0138860
- Manstretta, V. & V. Rossi. 2016. Effects of temperature and moisture on development of *Fusarium graminearum* perithecia in maize stalk residues. *Appl. Environ. Microbiol.* 82:184-191. doi:10.1128/AEM.02436-15.
- Marschner, H. 1995. *Mineral Nutrition of Higher Plants*, 2nd ed. Academic Press, New York. 889



- May De-Mio, L.L., I. Tutida, A.C.V. Motta, M.A. Dolinski, B.M. Serrat & D. Monteguti. 2008. Rate of application of nitrogen and potassium in relation to brown rot and scab in plum 'Reubennel' in the region of Araucária, Paraná. *Tropical Plant Pathology* 33:035-040.
- McNeil, M.D., S.A. Bhuiyan, P.J. Berkman, B.J. Croft & K.S. Aitken. 2018. Analysis of the resistance mechanisms in sugarcane during *Sporisorium scitamineum* infection using RNA-seq and microscopy. *PLoS ONE* 13(5): e0197840. <https://doi.org/10.1371/journal.pone.0197840>.
- Meena, R.S., J.S. Bohra, S.P. Singh, V.S. Meena, J.P. Verma, S.K. Verma & S.K. Sihag. 2016. Towards the prime response of manure to enhance nutrient use efficiency and soil sustainability a current need: a book review. *J Cleaner Prod.* 112:1258-1260.
- Meena, R.S., V.S. Meena, S.K. Meena & J.P. Verma. 2015. The needs of healthy soils for a healthy world. *J Cleaner Prod.* 102:560-561.
- Mehrotra, R.S. 1980. *Plant Pathology*. Tata McGraw-Hill Publishing Company. New Delhi. 847 p.
- Milgroom, M.G. & T.L. Peever. 2003. Population biology of plant pathogens: the synthesis of plant disease epidemiology and population genetics. *Plant Dis.* 87:608-617.
- Mittler, R., S. Vanderauwera, M. Gollery & F. van Breusegem. 2004. Reactive oxygen gene network of plants. *Trends in Plant Science* 9:490-498.
- Mu, X., Yi Zhao, K. Liu, B. Ji, H. Guo, Z. Xue & C. Li. 2016. Responses of soil properties, root growth and crop yield to tillage and crop residue management in a wheat-maize cropping system on the North China Plain. *Europ. J. Agronomy* 78:32-43.
- Mur L.A.J., C. Simpson, A. Kumari, A.K. Gupta & K.J. Gupta. 2016. Moving nitrogen to the centre of plant defence against pathogens. *Annals of Botany* 119:703-709.
- Musoli, C.P., F. Pinard, A. Charrier, A. Kangire, G.M. ten Hoopen, C. Kabole, J. Ogwang, D. Bieysse & C. Cilas. Spatial and temporal analysis of coffee wilt disease caused by *Fusarium xylarioides* in *Coffea canephora*. *Eur. J Plant Pathol.* 122:451-460.
- Nam, Y-J., L-S.P. Tran, M. Kojima, H. Sakakibara, R. Nishiyama & R. Shin. 2012. Regulatory roles of cytokinins and cytokinin signaling in response to potassium deficiency in *Arabidopsis*. *PLoS ONE* 7(10):e47797.
- Navas-Cortes, J.A., A.R. Alcalá-Jimenez, B. Hau & R.M. Jimenez-Díaz. 2000. Influence of inoculum density of races 0 and 5 of *Fusarium oxysporum* sp. *ciceris* on development of Fusarium wilt in chickpea cultivars. *Eur. Plant Pathol.* 106:135-146.
- Nejat, N. & N. Mantri N. 2017. Plant immune system: crosstalk between responses to biotic and abiotic stresses the missing link in understanding plant defence. *Curr. Issues Mol. Biol.* 23:1-16.
- O'Brien, J.A., A. Daudi, V.S. Butt & G.P. Bolwel. 2012. Reactive oxygen species and their role in plant defence and cell wall metabolism. *Planta* 236, 765-779.
- Okane, I., P. Srikitikulchai, K. Toyama, T. Læssøe, S. Sivichai, N. Hywel-Jones, A. Nakagiri, W. Potacharoen & K. Suzuki. 2008. Study of endophytic Xylariaceae in Thailand: diversity and taxonomy inferred from rDNA sequence analyses with saprobes forming fruit bodies in the field. *Mycoscience* 49:359-372.



- Otten, W., J.A.N. Filipe & C.A. Giligan. 2004. An empirical method to estimate the effect of soil on the rate for transmission of damping-off diseases. *New Phytologist* 162:231-238.
- Otten, W. & C.A. Giligan. 2006. Soil structure and soil-borne diseases: Using epidemiological concepts to scale from fungal spread to plant epidemics. *European J of Soil Sci.* 57:26-37.
- Otten, W., D. Hall, K. Harris, T. Ritz, I.M. Young & C.A. Gilligan. 2001. Soil physics, fungal epidemiology and the spread of *Rhizoctonia solani*. *New Phytologist* 151:459-468.
- Otto, R., A.P. Silva, H.C.J. Franco, E.C.A. Oliveira & P.C.O. Trivelin. 2011. High soil penetration resistance reduces sugarcane root system development. *Soil Tillage Res.* 117:201-210.
- Pandey P., V. Irulappan, M.V. Bagavathiannan & M. Senthil-Kumar. 2017. Impact of combined abiotic and biotic stresses on plant growth and avenues for crop improvement by exploiting physio-morphological traits. *Front. Plant Sci.* 8:537. doi: 10.3389/fpls.2017.00537.
- Paulitz, T. C. & K.L. Schroeder. 2005. A new method for the quantification of *Rhizoctonia solani* and *R. oryzae* from soil. *Plant Dis.* 89:767-772.
- Peng, Q., Y. Su, H. Ling, W. Ahmad, S. Gao, J. Guo, Y. Que & L. Xu. 2017. A sugarcane pathogenesis-related protein, ScPR10, plays a positive role in defense responses under *Sporisorium scitamineum*, SrMV, SA, and MeJA stresses. *Plant Cell Rep.* DOI 10.1007/s00299-017-2166-4.
- Persoh, D., M. Melcher, K. Graf, J. Fournier, M. Stadler & G. Rambold. 2009. Molecular and morphological evidence for the delimitation of *Xylaria hypoxylon*. *Mycologia* 101(2):256-268.
- Peters, L.P., G. Carvalho, M.B. Vilhena, S. Creste, R.A. Azevedo & C.B. Monteiro-Vitorello. 2017. Functional analysis of oxidative burst in sugarcane smut-resistant and susceptible genotypes. *Planta* 245:749-764.
- Petrini, L. & O. Petrini. 1985. Xylariaceous fungi as endophytes. *Sydowia* 38:216-234.
- Pfender, W.A. 1982. Monocyclic and polycyclic root diseases: Distinguishing between the nature of disease cycle and the shape of the disease progress curve. *Phytopathology* 72:31-32.
- Pfister, D.H. 2008. Early illustrations of *Xylaria* species. *North American Fungi* 3:161-166.
- Prakash, S. & J.P. Verma. 2016. Global perspective of potash for fertilizer production. *In: V.S.Meena, B.R. Maurya, J.P. Verma & R.S. Meena (eds). Potassium solubilizing microorganisms for sustainable agriculture.* Springer. New Delhi. 327-331.
- Priyadharsini, P. & T. Muthukumar. 2016. Interactions between arbuscular mycorrhizal fungi and potassium-solubilizing microorganisms on agricultural productivity. *In: V.S.Meena, B.R. Maurya, J.P. Verma & R.S. Meena (eds). Potassium solubilizing microorganisms for sustainable agriculture.* Springer. New Delhi. 111-125.
- Putra, L., A. Kristini, E. Achadian & T. Damayanti. 2013. Sugarcane streak mosaic virus in Indonesia: Distribution, characterisation, yield losses and management approaches. *Sugar Tech.* 16. 10.1007/s12355-013-0279-9.



Rajulu, M.B.G., N. Thirunavukkarasu, A.G. Babu, A. Aggarwal, T.S. Suryanarayanan & M.S. Reddy. 2013. Endophytic Xylariaceae from the forests of Western Ghats, Southern India: Distribution and biological activities. *Mycology* 4:29-37.

Ramegowda, V. & M. Senthil-Kumar. 2015. The interactive effects of simultaneous biotic and abiotic stresses on plants: mechanistic understanding from drought and pathogen combination. *J. Plant Physiol.* 176:47-54.

Ramesh, V., A. Thalavaipandian, C. Karunakaran & A. Rajendran. 2012. Identification and comparison of *Xylaria curta* and *Xylaria* sp. from western Ghats-Courtallum Hills, India. *Mycosphere* 3(5):607-615.

Ratnaweera, P.B., D.E. Williams, E. Dilip de Silva, R.L.C. Wijesundera, D.S. Dalisay & R.J. Andersen. 2014. Helvolic acid, an antibacterial nortriterpenoid from a fungal endophyte, *Xylaria* sp. of orchid *Anoectochilus setaceus* endemic to Sri Lanka. *Mycology* 5: 23-28.

Rekah, Y., D. Shtienberg & J. Katan. 1999. Spatial distribution and temporal development of Fusarium crown and root rot of tomato and pathogen dissemination in field soil. *Phytopathology* 89:831-839.

Rekah, Y., D. Shtienberg & J. Katan. 2000. Disease development following infection of tomato and basil foliage by airborne conidia of the soilborne pathogens *Fusarium oxysporum* f. sp. *radicis-lycopersici* and *F.oxysporum* f. sp. *basilici*. *Phytopathology* 90:1322-1329.

Rekah, Y., D. Shtienberg & J. Katan. 2001. Population dynamics of *Fusarium oxysporum* f. sp. *radicis-lycopersici* in relation to the onset of Fusarium crown and root rot of tomato. *European Journal of Plant Pathology* 107:367-375.

Ristaino, J.B. & M.L. Gumpertz. 2000. New frontiers in the study of dispersal and spatial analysis of epidemics caused by species in the genus *Phytophthora*. *Annu. Rev. Phytopathol.* 38:541-76.

Ritchie, F., R. Bain & M. Mcquilken. 2012. Survival of Sclerotia of *Rhizoctonia solani* AG3PT and Effect of Soil-Borne Inoculum Density on Disease Development on Potato. *J Phytopathol* 1-10.

Ritz, K. & I.M. Young. 2004. Interaction between soil structure and fungi. *Mycologist* 18:52-59.

Rogers, J.D. 1984. *Xylaria acuta*, *Xylaria cornu-damae*, and *Xylaria mali* in Continental United States. *Mycologia.* 76:23-33.

Rogers, J.D. 1979. The Xylariaceae: Systematic, biological and evolutionary aspects. *Mycologia* 71:1-42.

Rogers, J.D., F. San Martín, Y-M, Ju. 2002. A reassessment of the *Xylaria* on *Liquidambar* fruits and two new taxa on *Magnolia* fruits. *Sydowia* 54:91-97.

Rogers, J.D., A.N. Miller & L.N. Vasilyeva. 2008. Pyrenomycetes of the Great Smoky Mountains National Park. VI. *Kretzschmaria*, *Nemania*, *Rosellinia* and *Xylaria* (Xylariaceae). *Fungal Diversity* 29:107-116.

Rogers, J.D., Y-M. Ju & J. Lehmann. 2005. Some *Xylaria* species on termite nests. *Mycologia* 97: 914–923.

Rogers, J.D. 2000. Thoughts and musings on tropical Xylariaceae. *Mycological Research* 104:1412-1420.



- Rogers, J.D. & G.J. Samuels. 1986. Ascomycetes of New Zealand 8. *Xylaria*. New Zealand Journal of Botany 24: 615-650.
- Rogers, J.D. & Y-M. Ju. 1998. Keys to the Xylariaceae (excluding *Anthostomella*) of the British Isles. Botanical Journal of Scotland 50:153-160.
- Rogers, J.D. & Y-M. Ju. 2012. The Xylariaceae of the Hawaiian Islands. North American Fungi 7:1-35.
- Rolli, E., R. Marasco, G. Vigani, B. Ettoumi, F. Mapelli, M.L. Deangelis, F. Pierotti Cei, C. Gandolfi, E. Casati, F. Previtali, R. Roberto Gerbino, C.P. Cei, S. Borin, C. Sorlini, G. Zocchi & D. Daffonchio. 2015. Improved plant resistance to drought is promoted by the root associated microbiome as a water stress dependent trait. Environ. Microbiol. 17:316-331.
- Rosmana, A., N. Asry & U.S. Tresnaputra. 2014. Low water availability enhancing soil receptivity to *Fusarium* pathogen: Case of root rot on mulberry. J Plant Physiol Pathol 2:2. doi:<http://dx.doi.org/10.4172/2329-955X.1000123>.
- Ross, R.G. & F.D.J. Bremner. 1970. Effect of ammonium nitrogen and amino acids on perithecial formation of *Venturia inaequalis*. Can. J. Plant Sci, 51: 29-33.
- Rousseau, G.X., S. Rioux & D. Dostaler. 2006. Multivariate effects of plant canopy, soil physico-chemistry and microbiology on Sclerotinia stem rot of soybean in relation to crop rotation and urban compost amendment. Soil Biol. Biochemist 38:3325–3342.
- Saitou, N. & M. Nei. 1987. The neighbor-joining method: A new method for reconstructing phylogenetic trees. Mol. Biol. Evol. 4:406-425.
- Samaco, M.A. & F.M. dela Cueva. 2018. Molecular characterization of *Fusarium* spp. associated with sugarcane pokkah boeng from the Philippines using partial translation elongation factor-1a (TEF-1a) gene sequences. sugar Tech (2018). <https://doi.org/10.1007/s12355-018-0662->
- Sánchez-Elordia, E. F. Baluska, C. Echevarría, C. Vicente & M.E. Legaz. 2016. Defence sugarcane glycoproteins disorganize microtubules and prevent nuclear polarization and germination of *Sporisorium scitamineum* teliospores. Journal of Plant Physiology 200:111-123.
- Sanogo, S. & X.B. Yang. 2001. Relation of sand content, pH, and potassium and phosphorus nutrition to the development of sudden death syndrome in soybean. Can. J. Plant Pathol. 23:174-180.
- Sarniguet, A., P. Lucas & M. Lucas. 1992. Relationships between take-all, soil conduciveness to the disease, populations of fluorescent pseudomonads and nitrogen fertilizers. Plant and Soil 145:17-27.
- Schroeder, K. L. & T. C. Paulitz. 2008. Effect of inoculum density and soil tillage on the development and severity of Rhizoctonia root rot. Phytopathol. 98:304-314.
- Seitner, D., S. Uhse, M. Gallei & A. Djamei. 2018. The core effector Cce1 is required for early infection of maize by *Ustilago maydis*. Molecular Plant Pathology 19(10): 2277-2287.
- Shin, R., R.H Berg & D.P. Schachtman. 2005. Reactive oxygen species and root hairs in arabidopsis root response to nitrogen, phosphorus and potassium deficiency. Plant Cell Physiol. 46:1350-1357.



- Stepu, R., Sunaryo, K. Widyatmoko & H. Purwoko. 2010. Root and basal stem rot disease of sugarcane in Lampung, Indonesia. Proc. Int. Soc. Sugar Cane Technol. 27:1-7.
- Smiley, R.W. & R.J. Cook. 1973. Relationship between take-all of wheat and rhizosphere pH in soils fertilized with ammonium vs. nitrate-nitrogen. Phytopathology 63:882-890.
- Spurlock, T. N., C.S. Rothrock & W.S. Monfort. 2015. Evaluation of methods to quantify populations of *Rhizoctonia* in soil. Plant Dis. 99:836-841
- Srihanant, N., V. Petcharat & L.N. Vasilyeva. 2015. *Xylaria thailandica* – a new species from Southern Thailand. Mycotaxon. 130:227-231.
- Stadler, M., D.L. Hawksworth & J. Fournier. 2014. The application of the name *Xylaria hypoxylon*, based on *Clavaria hypoxylon* of Linnaeus. IMA Fungus 5(1):57-66.
- Stergiopoulos I, de Wit PJ. 2009. Fungal effector proteins. Annu. Rev. Phytopathol. 47:233–63
- Stewart, L.R., M. L. Morrison, D.N. Appel & R.N. Wilkins. 2014. Spatial and Temporal Distribution of Oak Wilt in Golden-Cheeked Warbler Habitat. Wildlife Society Bulletin 38(2):288-296
- Strunnikova, O.K., N.A. Vishnevskaya, A.S. Ruchiy, V.Y. Shakhnazarova, N.I. Vorobyov & V.K. Chebotar. 2014. The influence of soils with different textures on development, colonization capacity and interactions between *Fusarium culmorum* and *Pseudomonas fluorescens* in soil and on barley roots. Plant Soil. Doi 10.1007/s11104-014-2351-y.
- Su, Y., L. Xu, Z. Wang, Q. Peng, Y. Yang, Y. Chen & Y. Que. 2016c. Comparative proteomics reveals that central metabolism changes are associated with resistance against *Sporisorium scitamineum* in sugarcane. BMC Genomics. 17:800. DOI 10.1186/s12864-016-3146-8.
- Su, Y., Z. Wang, F. Liu, Z. Li, Q. Peng, J. Guo, L. Xu & Y. Que. 2016b. Isolation and characterization of *ScGluD2*, a new sugarcane beta-1,3-glucanase D family gene induced by *Sporisorium scitamineum*, ABA, H₂O₂, NaCl, and CdCl₂ stresses. Front. Plant Sci. 7:1348. doi: 10.3389/fpls.2016.01348.
- Su, Y., Z. Wang, L. Xu, Q. Peng, F. Liu, Z. Li & Y. Que. 2016a. Early selection for smut resistance in sugarcane using pathogen proliferation and changes in physiological and biochemical indices. Front. Plant Sci. 7:1133. doi: 10.3389/fpls.2016.01133.
- Suffert, F., D. Delalande, M. Prunier & D. Andrivon. 2008. Modulation of primary and secondary infections in epidemics of carrot cavity spot through agronomic management practices. Plant Pathology 57:109-121.
- Suffert, F & F. Montfort. 2007. Demonstration of secondary infection by *Pythium violae* in epidemics of carrot cavity spot using root transplantation as a method of soil infestation. Plant Pathology 56:588-94.
- Sundar, A. R, E. L. Barnabas, P. Malathi, R. Viswanathan. 2012. A mini-review on smut disease of sugarcane caused by *Sporisorium scitamineum*. In: J. Mworira (Ed.), Botany. InTech Croatia. Rijeka. 109-128. Available from: <http://www.intechopen.com/books/botani/-a-mini-review-on-smut-disease-of-sugarcane-caused-by-sporisorium-scitamineum->



- Suwanasai, N., M.A. Whalley, A.J.S. Whalley, S. Thienhirun & P. Sihanonth. 2012. Ascus apical apparatus and ascospore characters in *Xylariaceae*. *IMA Fungus* 3(2):125-133.
- Tamura, K., G. Stecher, D. Peterson, A. Filipski & S. Kumar. 2013. MEGA6: Molecular evolutionary genetics analysis version 6.0. *Molecular Biology and Evolution* 30:2725–2729.
- Tang, A.M.C., R. Jeewon & K.D. Hyde. 2009. A re-evaluation of the evolutionary relationships within the *Xylariaceae* based on ribosomal and protein-coding gene sequences. *Fungal Diversity* 34:127-155.
- Taniguti, L.M., P.D.C. Schaker, J. Benevenuto, L.P. Peters, G. Carvalho, A. Palhares, M.C. Quecine, F.R.S. Nunes, M.C.P. Kmit, A. Wai, G. Hausner, K.S. Aitken, P. J. Berkman, J.A. Fraser, P.M. Moolhuijzen, L.L. Coutinho, S. Creste, M.L.C. Vieira, J.P. Kitajima & C.B. Monteiro-Vitorello . 2015. Complete genome sequence of *Sporisorium scitamineum* and biotrophic interaction transcriptome with sugarcane. *PLoS One* 10:e0129318. doi:10.1371/journal.pone.0129318
- Thalineau, E., H-N.Truong, A. Berger, C. Fournier, A. Boscari, D. Wendehenne & S. Jeandroz. 2016. Cross-regulation between N metabolism and nitric oxide (NO) signaling during plant immunity. *Front. Plant Sci.* 7:472.
- Thompson, J.D., T.J. Gibson, F. Plewniak, F. Jeanmougin & D.G. Higgins. 1997. The CLUSTAL X windows interface: Flexible strategies for multiple sequence alignment aided by quality analysis tools. *Nucleic Acids Research* 25:4876-4882.
- Thomsen, G., T. Birr, H. Klink, J.A. Verreet. 2018. Geographic distribution and disease severity of different *Rhizoctonia* species pathogenic towards maize in different regions in Germany and France. *J Plant Diseases & Protection* 125:461-468.
- Tooley, P.W., M. Browning & R.M. Leighty. 2013. Inoculum density relationships for infection of some eastern US forest species by *Phytophthora ramorum*. *J Phytopathol.* 161:595-603.
- Torres, M.A., J.D. Jones & J.L. Dangl. 2006. Reactive oxygen species signaling in response to pathogens. *Plant Physiol.* 141:373-378.
- Trierveiler-Pereira, L., A.I. Romero, J.M. Baltazar & C. Loguercio-Leite. 2009. Addition to the knowledge of *Xylaria* (*Xylariaceae*, *Ascomycota*) in Santa Catarina, Southern Brazil. *Mycotaxon* 107:139-156.
- Troufflard, S., W. Mullen, T.R. Larson, I.A. Graham, A. Crozier, A. Amtmann & P. Armengaud. 2010. Potassium deficiency induces the biosynthesis of oxylipins and glucosinolates in *Arabidopsis thaliana*. *BMC Plant Biol.* 10:172.
- Uhse, S. & A. Djamei. 2018. Effectors of plant-colonizing fungi and beyond. *PLoS Pathog* 14(6): e1006992. <https://doi.org/10.1371/journal.ppat.1006992>
- Van der Gucht K. 1995. Illustrations and descriptions of *Xylariaceae* fungi collected in Papua New Guinea. *Bulletin de la Jardin Botanique National de Belgique* 64:219-403.
- Van der Plank, J. E. 1963. *Plant diseases: Epidemic and control*. Academic Press. New York. 349 p.
- Verbon, E.H., P.L. Trapet, I.A. Stringlis, S. Kruijs, P.A.H.M. Bakker & C.M.J. Pieterse. 2017. Iron and Immunity. *Annu. Rev. Phytopathol.* . 55:355-375



- Yeresoglou, S.D., E. K. Barto, G. Menexes & M.C. Rillig. 2013. Fertilization affects severity of disease caused by fungal plant pathogens. *Plant Pathology* 62:961-969.
- Visser, A.A., V.I.D. Ros, Z.W. De Beer, A.J.M. Debets, E. Hartog, T.W. Kuyper, T. Læssøe, B. Slippers & D.K. Aanen. 2009. Levels of specificity of *Xylaria* species associated with fungus-growing termites: a phylogenetic approach. *Molecular Ecology* 18: 553-567.
- Viswanathan, R. 2013. Status of sugarcane wilt: One hundred years after its report in India. *J Sugarcane Research* 3:86-106.
- Viswanathan, R., M. Poongothai & P. Malathi. 2011. Pathogenic and molecular confirmation of *Fusarium sacchari* causing wilt in sugarcane. *SugarTech* 13:68-76.
- Viswanathan, R., P. Malathi, A. Annadurai, C.N. Prasanth & M. Scindiya. 2014. Sudden occurrence of wilt and *pokkahboeng* in sugarcane and status of resistance in the parental clones in national hybridization garden to these diseases. *J Sugarcane Research* 4(1):62-81.
- Vitti, A.C.; D.A. Ferreira, H.C.J. Franco, C. Fortes, R. Otto, C.E. Faroni & P.C.O. Trivelin. 2010. Utilisation of nitrogen from trash by sugarcane ratoons. *Sugarcane International* 28:249-253.
- Walters, D.R. & I.J. Bingham. 2007. Influence of nutrition on disease development caused by fungal pathogens: implications for plant disease control. *Ann Appl Biol* 151: 307-324.
- Wang, Y., Z. Bao, Y. Zhu & J. Hua. 2009. Analysis of temperature modulation of plant defense against bio trophic microbes. *Mol. Plant Microbe Interact. J.* 22: 498-506.
- Wang, M., Q. Zheng, Q. Shen & S. Guo. 2013. The critical role of potassium in plant stress response. *Int. J. Mol. Sci.* 14: 7370-7390.
- Wang, M., Y. Sun, Z. Gu, R. Wang, G. Sun, C. Zhu, S. Guo & Q. Shen. 2016. Nitrate protects cucumber plants against *Fusarium oxysporum* by regulating citrate exudation. *Plant and Cell Physiology* 57: 2001-2012.
- Wei, F., R. Fan, H. Dong, W. Shang, X. Xu, H. Zhu, J. Yang & X. Hu. 2015. Threshold microsclerotial inoculum for cotton Verticillium wilt determined through wet-sieving and real-time quantitative PCR. *Phytopathology* 105:220-229.
- Whalley, A.J.S. 1996. The xylariaceous way of life. *Mycol. Res.* 100:897-922.
- Wharton, P.S. & J. Diéguez-Urbeondo. 2004. The biology of *Colletotrichum acutatum*. *Anales del Jardín Botánico de Madrid* 61:3-22.
- White, T.J., T.D. Bruns, S.B. Lee & J.W. Taylor. 1990. Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics. *In*: M.A. Innis, D.H. Gelfand, J.J. Sninsky & T.J. White (eds.). *PCR protocols: A guide to methods and applications*. Academic Press. San Diego. 315-322.
- Whitelaw-Weckert, M.A., S. J. Curtin, R. Huang, C.C. Steel, C.L. Blanchard & P.E. Roffey. 2007. Phylogenetic relationships and pathogenicity of *Colletotrichum acutatum* isolates from grape in subtropical Australia. *Plant Pathol.* 56:448-463.
- Williams, J. & S.G. Smith. 2001. Correcting potassium deficiency can reduce rice stem diseases. *Better Crops* 85:7-9.



- Winarno. 2016. Uji ketahanan varietas terhadap penyakit busuk akar dan pangkal batang. <http://gulatebucintamanis.blogspot.co.id/2016/04/ uji-ketahanan-varietas-terhadap.html>. Diakses 20 September 2016.
- Wiyatiningsih, S. 2007. Kajian epidemi penyakit moler pada bawang merah. Disertasi. Univeristas Gadjah Mada. Yogyakarta.
- Wu, Q., Y-B. Pan, D. Zhou, M. P. Grisham, S. Gao, Y. Su, J. Guo, L. Xu & Y. Que. 2018. A Comparative Study of Three Detection Techniques for *Leifsonia xyli* Subsp. *xyli*, the Causal Pathogen of Sugarcane Ratoon Stunting Disease. *BioMed Research International*. <https://doi.org/10.1155/2018/2786458>
- Xu, X. 2006. Polaing and interpreting disease progress in time. *In*: B.M. Cooke, D.G. Jones & B. Kaye (Eds.). *The Epidemiology of plant diseases*. 2nd ed. Springer-Verlag. 215-238.
- Ye, F., E. Albarouki, B. Lingamb, H.B. Deisinga & N. von Wiren. 2014. An adequate Fe nutritional status of maize suppresses infection and biotrophic growth of *Colletotrichum graminicola*. *Physiologia Plantarum* 151:280-292.
- Yu, X. & X.G. Su. 2009. *Linear regression Analysis: Theory and computing*. World Scientific Publishing. London. 328 hal.
- You, M.P. & M.J. Barbetti. 2017a. Severity of phytophthora root rot and pre-emergence damping-off in Subterranean Clover influenced by moisture, temperature, nutrition, soil type, cultivar and their interactions. *Plant Pathol.* 66:1162-1181.
- You, M. P. & M.J. Barbetti. 2017b. Environmental factors determine severity of *Rhizoctonia* damping-off and root rot in Subterranean Clover. *Australas. Plant Pathol.* 46:357-368.
- Zhou, J., M. Wang, Y. Sun, Z. Gu, R. Wang, A. Saydin, Q. Shen & S. Guo. 2017. Nitrate increased cucumber tolerance to fusarium wilt by regulating fungal toxin production and distribution. *Toxins* 9,100. doi:10.3390/toxins9030100.
- Zorb, C., M. Senbayram & E. Peiter. 2014. Potassium in agriculture-status and perspectives. *J Plant Physiol.* 171:656-669.