

REFERENCES

- Afzal, Z., Howton, T., Sun, Y., & Mukhtar, M. S. (2016). The roles of aquaporins in plant stress responses. *Journal of developmental biology*, 4(1), 9.
- Ahmed, S. F., Kumar, P. S., Rozbu, M. R., Chowdhury, A. T., Nuzhat, S., Rafa, N., Mahlia, T., Ong, H. C., & Mofijur, M. (2022). Heavy metal toxicity, sources, and remediation techniques for contaminated water and soil. *Environmental Technology & Innovation*, 25, 102114.
- Ajijah, N., Fiodor, A., Pandey, A. K., Rana, A., & Pranaw, K. (2023). Plant growth-promoting bacteria (PGPB) with biofilm-forming ability: a multifaceted agent for sustainable agriculture. *Diversity*, 15(1), 112.
- Andre, C. M., Hausman, J.-F., & Guerriero, G. (2016). *Cannabis sativa*: the plant of the thousand and one molecules. *Frontiers in plant science*, 7, 19.
- Authority, E. F. S., Brancato, A., Brocca, D., Ferreira, L., Greco, L., Jarrah, S., Leuschner, R., Medina, P., Miron, I., & Nougadere, A. (2018). Use of EFSA pesticide residue intake model (EFSA PRIMo revision 3). *EFSA Journal*, 16(1), e05147.
- Backer, R., Rokem, J. S., Ilangumaran, G., Lamont, J., Praslickova, D., Ricci, E., Subramanian, S., & Smith, D. L. (2018). Plant growth-promoting rhizobacteria: context, mechanisms of action, and roadmap to commercialization of biostimulants for sustainable agriculture. *Frontiers in plant science*, 9, 1473.
- Bagheri, N., Ahmadzadeh, M., Mariotte, P., & Jouzani, G. S. (2022). Behavior and interactions of the plant growth-promoting bacteria *Azospirillum oryzae* NBT506 and *Bacillus velezensis* UTB96 in a co-culture system. *World Journal of Microbiology and Biotechnology*, 38(6), 101.
- Bai, Y., Zhou, Y., Yue, T., Huang, Y., He, C., Jiang, W., Liu, H., Zeng, H., & Wang, J. (2023). Plant growth-promoting rhizobacteria *Bacillus velezensis* JB0319 promotes lettuce growth under salt stress by modulating plant physiology and changing the rhizosphere bacterial community. *Environmental and Experimental Botany*, 213, 105451.

- Balderas-Ruiz, K. A., Bustos, P., Santamaria, R. I., González, V., Cristiano-Fajardo, S. A., Barrera-Ortiz, S., Mezo-Villalobos, M., Aranda-Ocampo, S., Guevara-García, Á. A., & Galindo, E. (2020). *Bacillus velezensis* 83 a bacterial strain from mango phyllosphere, useful for biological control and plant growth promotion. *Amb Express*, *10*, 1-19.
- Balthazar, C., Cantin, G., Novinscak, A., Joly, D. L., & Fillion, M. (2020). Expression of putative defense responses in cannabis primed by *Pseudomonas* and/or *Bacillus* strains and infected by *Botrytis cinerea*. *Frontiers in plant science*, *11*, 572112.
- Barrett, P., & Bradley, C. (2016). Attitudes and perceived risk of cannabis use in Irish adolescents. *Irish Journal of Medical Science (1971-)*, *185*, 643-647.
- Bashan, Y., & De-Bashan, L. E. (2010). How the plant growth-promoting bacterium *Azospirillum* promotes plant growth—a critical assessment. *Advances in agronomy*, *108*, 77-136.
- Bashan, Y., Kamnev, A. A., & de-Bashan, L. E. (2013). Tricalcium phosphate is inappropriate as a universal selection factor for isolating and testing phosphate-solubilizing bacteria that enhance plant growth: a proposal for an alternative procedure. *Biology and Fertility of Soils*, *49*(4), 465-479.
- Blessing, E. M., Steenkamp, M. M., Manzanares, J., & Marmar, C. R. (2015). Cannabidiol as a potential treatment for anxiety disorders. *Neurotherapeutics*, *12*(4), 825-836.
- Booth, J. K., & Bohlmann, J. (2019). Terpenes in *Cannabis sativa*—From plant genome to humans. *Plant Science*, *284*, 67-72.
- Bruce, D., Connelly, G., & Ellison, S. (2022). Different fertility approaches in organic hemp (*Cannabis sativa* L.) production alter floral biomass yield but not CBD: THC ratio. *Sustainability*, *14*(10), 6222.
- Cantoro, R., Palazzini, J. M., Yerkovich, N., Miralles, D. J., & Chulze, S. N. (2021). *Bacillus velezensis* RC 218 as a biocontrol agent against *Fusarium graminearum*: effect on penetration, growth and TRI5 expression in wheat spikes. *BioControl*, *66*, 259-270.

- Caplan, D., Dixon, M., & Zheng, Y. (2017). Optimal rate of organic fertilizer during the flowering stage for cannabis grown in two coir-based substrates. *HortScience*, 52(12), 1796-1803.
- Chakruno, P., Banik, S., & Sumi, K. (2022). Important diseases of tea (*Camellia sinensis* L.) and their integrated management. In *Diseases of Horticultural Crops: Diagnosis and Management* (pp. 119-138). Apple Academic Press.
- Chandel, S., Allan, E. J., & Woodward, S. (2010). Biological control of *Fusarium oxysporum* f. sp. *lycopersici* on tomato by *Brevibacillus brevis*. *Journal of phytopathology*, 158(7-8), 470-478.
- Chen, S.-L., Yu, H., Luo, H.-M., Wu, Q., Li, C.-F., & Steinmetz, A. (2016). Conservation and sustainable use of medicinal plants: problems, progress, and prospects. *Chinese medicine*, 11, 1-10.
- Cheng, X., Ji, X., Ge, Y., Li, J., Qi, W., & Qiao, K. (2019). Characterization of antagonistic *Bacillus methyilotrophicus* isolated from rhizosphere and its biocontrol effects on maize stalk rot. *Phytopathology*, 109(4), 571-581.
- Chien, S., Prochnow, L., & Cantarella, a. H. (2009). Recent developments of fertilizer production and use to improve nutrient efficiency and minimize environmental impacts. *Advances in agronomy*, 102, 267-322.
- Choudhary, D. K., & Johri, B. N. (2009). Interactions of *Bacillus spp.* and plants—with special reference to induced systemic resistance (ISR). *Microbiological research*, 164(5), 493-513.
- Chowdhury, S. P., Uhl, J., Grosch, R., Alquères, S., Pittroff, S., Dietel, K., Schmitt-Kopplin, P., Borriss, R., & Hartmann, A. (2015). Cyclic lipopeptides of *Bacillus amyloliquefaciens subsp. plantarum* colonizing the lettuce rhizosphere enhance plant defense responses toward the bottom rot pathogen *Rhizoctonia solani*. *Molecular Plant-Microbe Interactions*, 28(9), 984-995.
- Citti, C., Pacchetti, B., Vandelli, M. A., Forni, F., & Cannazza, G. (2018). Analysis of cannabinoids in commercial hemp seed oil and decarboxylation kinetics studies of cannabidiolic acid (CBDA). *Journal of Pharmaceutical and Biomedical Analysis*, 149, 532-540.
- Clarke, R., & Merlin, M. (2016). *Cannabis: evolution and ethnobotany*. Univ of California Press.

- Compant, S., Clément, C., & Sessitsch, A. (2010). Plant growth-promoting bacteria in the rhizo-and endosphere of plants: their role, colonization, mechanisms involved and prospects for utilization. *Soil Biology and Biochemistry*, 42(5), 669-678.
- Cosgrove, D. J. (2018). Diffuse growth of plant cell walls. *Plant physiology*, 176(1), 16-27.
- Dariš, B., Verboten, M. T., Knez, Ž., & Ferk, P. (2019). Cannabinoids in cancer treatment: Therapeutic potential and legislation. *Bosnian journal of basic medical sciences*, 19(1), 14.
- Devinsky, O., Cross, J. H., Laux, L., Marsh, E., Miller, I., Nabbout, R., Scheffer, I. E., Thiele, E. A., & Wright, S. (2017). Trial of cannabidiol for drug-resistant seizures in the Dravet syndrome. *New England Journal of Medicine*, 376(21), 2011-2020.
- Diversity, S. o. t. C. o. B. (2000). Sustaining Life on Earth: How the Convention on Biological Diversity Promotes Nature and Humal Well-being.
- Egamberdieva, D., Wirth, S., Bellingrath-Kimura, S. D., Mishra, J., & Arora, N. K. (2019). Salt-tolerant plant growth promoting rhizobacteria for enhancing crop productivity of saline soils. *Frontiers in microbiology*, 10, 2791.
- Eichler, F., Poźniak, B., Machnik, M., Schenk, I., Wingender, A., Baudisch, N., Thevis, M., Bäumer, W., Lischer, C., & Ehrle, A. (2023). Pharmacokinetic modelling of orally administered cannabidiol and implications for medication control in horses. *Frontiers in Veterinary Science*, 10, 1234551.
- Fahad, S., Hussain, S., Saud, S., Hassan, S., Ihsan, Z., Shah, A. N., Wu, C., Yousaf, M., Nasim, W., & Alharby, H. (2016). Exogenously applied plant growth regulators enhance the morpho-physiological growth and yield of rice under high temperature. *Frontiers in plant science*, 7, 1250.
- Fan, B., Blom, J., Klenk, H.-P., & Borriss, R. (2017). *Bacillus amyloliquefaciens*, *Bacillus velezensis*, and *Bacillus siamensis* form an “operational group *B. amyloliquefaciens*” within the *B. subtilis* species complex. *Frontiers in microbiology*, 8, 22.

- Fan, B., Wang, C., Song, X., Ding, X., Wu, L., Wu, H., Gao, X., & Borriss, R. (2018). *Bacillus velezensis* FZB42 in 2018: the gram-positive model strain for plant growth promotion and biocontrol. *Frontiers in microbiology*, 9, 2491.
- Fan, X.-X., Xu, Z.-G., Liu, X.-Y., Tang, C.-M., Wang, L.-W., & Han, X.-L. (2013). Effects of light intensity on the growth and leaf development of young tomato plants grown under a combination of red and blue light. *Scientia horticulturae*, 153, 50-55.
- Ganguly, K., Gulati, A., & von Braun, J. (2017). Innovations spearheading the next transformations in India's agriculture.
- Geng, D., Shen, X., Xie, Y., Yang, Y., Bian, R., Gao, Y., Li, P., Sun, L., Feng, H., & Ma, F. (2020). Regulation of phenylpropanoid biosynthesis by MdMYB88 and MdMYB124 contributes to pathogen and drought resistance in apple. *Horticulture research*, 7.
- Giacoppo, S., Mandolino, G., Galuppo, M., Bramanti, P., & Mazzon, E. (2014). Cannabinoids: new promising agents in the treatment of neurological diseases. *Molecules*, 19(11), 18781-18816.
- Glanz-Idan, N., Lach, M., Tarkowski, P., Vrobel, O., & Wolf, S. (2022). Delayed leaf senescence by upregulation of cytokinin biosynthesis specifically in tomato roots. *Frontiers in plant science*, 13, 922106.
- Glick, B. R. (2014). Bacteria with ACC deaminase can promote plant growth and help to feed the world. *Microbiological research*, 169(1), 30-39.
- Gou, J., Strauss, S. H., Tsai, C. J., Fang, K., Chen, Y., Jiang, X., & Busov, V. B. (2010). Gibberellins regulate lateral root formation in *Populus* through interactions with auxin and other hormones. *The Plant Cell*, 22(3), 623-639.
- Hamid, B., Zaman, M., Farooq, S., Fatima, S., Sayyed, R. Z., Baba, Z. A., Sheikh, T. A., Reddy, M. S., El Enshasy, H., & Gafur, A. (2021). Bacterial plant biostimulants: a sustainable way towards improving growth, productivity, and health of crops. *Sustainability*, 13(5), 2856.
- Hanuš, L. O., Meyer, S. M., Muñoz, E., Tagliatatela-Scafati, O., & Appendino, G. (2016). Phytocannabinoids: a unified critical inventory. *Natural product reports*, 33(12), 1357-1392.

- Hayat, R., Ali, S., Amara, U., Khalid, R., & Ahmed, I. (2010). Soil beneficial bacteria and their role in plant growth promotion: a review. *Annals of microbiology*, 60, 579-598.
- Huang, Y., Li, D., Zhao, L., Chen, A., Li, J., Tang, H., Pan, G., Chang, L., Deng, Y., & Huang, S. (2019). Comparative transcriptome combined with physiological analyses revealed key factors for differential cadmium tolerance in two contrasting hemp (*Cannabis sativa* L.) cultivars. *Industrial crops and products*, 140, 111638.
- Ibiang, S. R., Usami, T., & Sakamoto, K. (2021). Reduction of verticillium wilt in tomato by an arbuscular mycorrhizal fungus-*Rhizophagus intraradices* and an endophytic fungus-*Penicillium pinophilum* is cultivar dependent. *Rhizosphere*, 20, 100440.
- Insecticide, F. Fungicide, and Rodenticide Act (FIFRA) and Federal Facilities. *United States Environmental Protection Agency*.
- Kanabus, J., Bryła, M., Roszko, M., Modrzewska, M., & Pierzgalski, A. (2021). Cannabinoids—Characteristics and potential for use in food production. *Molecules*, 26(21), 6723.
- Kant, S., Burch, D., Badenhorst, P., Palanisamy, R., Mason, J., & Spangenberg, G. (2015). Regulated expression of a cytokinin biosynthesis gene IPT delays leaf senescence and improves yield under rainfed and irrigated conditions in canola (*Brassica napus* L.). *PLoS One*, 10(1), e0116349.
- Kasiamdari, R. S. (2021). Antagonistic activity of siderophore-producing bacteria from black rice rhizosphere against rice blast fungus *Pyricularia oryzae*.
- Kaya, C., Uğurlar, F., Ashraf, M., Hou, D., Kirkham, M. B., & Bolan, N. (2024). Microbial consortia-mediated arsenic bioremediation in agricultural soils: Current status, challenges, and solutions. *Science of the Total Environment*, 170297.
- Kenfaoui, J., Dutilloy, E., Benchlih, S., Lahlali, R., Ait-Barka, E., & Esmaeel, Q. (2024). *Bacillus velezensis*: a versatile ally in the battle against phytopathogens—insights and prospects. *Applied Microbiology and Biotechnology*, 108(1), 439.
- Khalili, E., Sadravi, M., Naeimi, S., & Khosravi, V. (2012). Biological control of rice brown spot with native isolates of three *Trichoderma* species. *Brazilian Journal of Microbiology*, 43, 297-305.

- Khan, A., Shaukat, S., Islam, S., & Khan, A. (2012). Evaluation of fluorescent *pseudomonad* isolates for their activity against some plant-parasitic nematodes. *Am Eurasian J Agric Environ Sci*, 12, 1496-1506.
- Kiddee, S., Wongdee, J., Piromyou, P., Songwattana, P., Greetatorn, T., Boonkerd, N., Teaumroong, N., Saito, K., & Tittabutr, P. (2024). Unveiling the tripartite synergistic interaction of plant-arbuscular mycorrhizal fungus symbiosis by endophytic *Bacillus velezensis* S141 in *Lotus japonicus*. *Symbiosis*, 92(3), 355-367.
- Koller, J., Sutter, L., Gonthier, J., Collatz, J., & Norgrove, L. (2023). Entomopathogens and parasitoids allied in biocontrol: A systematic review. *Pathogens*, 12(7), 957.
- Komárek, M., Vaněk, A., & Ettler, V. (2013). Chemical stabilization of metals and arsenic in contaminated soils using oxides—a review. *Environmental Pollution*, 172, 9-22.
- Kondo, T., Sibponkrung, S., Hironao, K.-y., Tittabutr, P., Boonkerd, N., Ishikawa, S., Ashida, H., Teaumroong, N., & Yoshida, K.-i. (2023). *Bacillus velezensis* S141, a soybean growth-promoting bacterium, hydrolyzes isoflavone glycosides into aglycones. *The Journal of General and Applied Microbiology*, 69(3), 175-183.
- Kumar, A., & Verma, J. P. (2018). Does plant—microbe interaction confer stress tolerance in plants: a review? *Microbiological research*, 207, 41-52.
- Ledin, M. (2000). Accumulation of metals by microorganisms—processes and importance for soil systems. *Earth-Science Reviews*, 51(1-4), 1-31.
- Lee, Z. H., Hirakawa, T., Yamaguchi, N., & Ito, T. (2019). The roles of plant hormones and their interactions with regulatory genes in determining meristem activity. *International journal of molecular sciences*, 20(16), 4065.
- Liao, Z., Zhou, Z., Li, Y., & Zhang, Y. (2023). Plant metabolism and synthetic biology. *Synthetic and Systems Biotechnology*, 8(3), 563.
- Limkul, S., Phiwthong, T., Massu, A., Jaree, P., Thawonsuwan, J., Teaumroong, N., Boonanuntanasarn, S., Somboonwiwat, K., & Boonchuen, P. (2022). The interferon-like proteins, Vagos, in *Fenneropenaeus merguensis* elicit antimicrobial responses against WSSV and VPAHPND infection. *Fish & Shellfish Immunology*, 131, 718-728.

- Liu, S., Hao, H., Lu, X., Zhao, X., Wang, Y., Zhang, Y., Xie, Z., & Wang, R. (2017). Transcriptome profiling of genes involved in induced systemic salt tolerance conferred by *Bacillus amyloliquefaciens* FZB42 in *Arabidopsis thaliana*. *Scientific reports*, 7(1), 10795.
- Livak, K. J., & Schmittgen, T. D. (2001). Analysis of relative gene expression data using real-time quantitative PCR and the 2^{- $\Delta\Delta_{CT}$} method. *methods*, 25(4), 402-408.
- López-Bellido, R. J., Fontán, J. M., López-Bellido, F. J., & López-Bellido, L. (2010). Carbon sequestration by tillage, rotation, and nitrogen fertilization in a Mediterranean Vertisol. *Agronomy Journal*, 102(1), 310-318.
- Lugtenberg, B., & Kamilova, F. (2009). Plant-growth-promoting rhizobacteria. *Annual review of microbiology*, 63(1), 541-556.
- Lyu, D., Backer, R., & Smith, D. (2020). Plant growth-promoting rhizobacteria (PGPR) as plant biostimulants in agriculture. In *Biostimulants for sustainable crop production* (pp. 197-226). Burleigh Dodds Science Publishing.
- Maksimov, I., Blagova, D., Veselova, S., Sorokan, A., Burkhanova, G., Cherepanova, E., Sarvarova, E., Rumyantsev, S., Alekseev, V. Y., & Khayrullin, R. (2020). Recombinant *Bacillus subtilis* 26DCryChS line with gene Btcry1Ia encoding Cry1Ia toxin from *Bacillus thuringiensis* promotes integrated wheat defense against pathogen *Stagonospora nodorum* Berk. and greenbug *Schizaphis graminum* Rond. *Biological control*, 144, 104242.
- Malgioglio, G., Rizzo, G. F., Nigro, S., Lefebvre du Prey, V., Herforth-Rahmé, J., Catara, V., & Branca, F. (2022). Plant-microbe interaction in sustainable agriculture: the factors that may influence the efficacy of PGPM application. *Sustainability*, 14(4), 2253.
- Marcu, J. P. (2016). An overview of major and minor phytocannabinoids. *Neuropathology of drug addictions and substance misuse*, 672-678.
- Mason, M. G., Mathews, D. E., Argyros, D. A., Maxwell, B. B., Kieber, J. J., Alonso, J. M., Ecker, J. R., & Schaller, G. E. (2005). Multiple type-B response regulators mediate cytokinin signal transduction in *Arabidopsis*. *The Plant Cell*, 17(11), 3007-3018.
- Mau, Y. S., Prayetno, R. S., Kaka, H., Naat, K. D., Henuk, J. B. D., Hahuly, M. V., Widinugraheni, S., & Gandut, Y. R. Y. (2022). Efficacy of indigenous *Trichoderma*

- isolates of West Timor, Indonesia, as biocontrol agents of brown spot (*Drechslera oryzae*) on two upland rice varieties. *Egyptian Journal of Biological Pest Control*, 32(1), 62.
- Maung, C. E. H., Baek, W. S., Choi, T. G., & Kim, K. Y. (2021). Control of grey mould disease on strawberry using the effective agent, *Bacillus amyloliquefaciens* Y1. *Biocontrol Science and Technology*, 31(5), 468-482.
- McGuire, P., Robson, P., Cubala, W. J., Vasile, D., Morrison, P. D., Barron, R., Taylor, A., & Wright, S. (2018). Cannabidiol (CBD) as an adjunctive therapy in schizophrenia: a multicenter randomized controlled trial. *American Journal of Psychiatry*, 175(3), 225-231.
- McPartland, J. M., & Guy, G. W. (2017). Models of Cannabis taxonomy, cultural bias, and conflicts between scientific and vernacular names. *The botanical review*, 83, 327-381.
- Meng, J., Zhang, X., Han, X., & Fan, B. (2022). Application and development of biocontrol agents in China. *Pathogens*, 11(10), 1120.
- Miotti, N., Sukhikh, N., Laboureaux, N., Casati, P., & Pooggin, M. M. (2023). Cannabis virome reconstruction and antiviral RNAi characterization through small RNA sequencing. *Plants*, 12(23), 3925.
- Moscariello, C., Matassa, S., Esposito, G., & Papirio, S. (2021). From residue to resource: The multifaceted environmental and bioeconomy potential of industrial hemp (*Cannabis sativa* L.). *Resources, Conservation and Recycling*, 175, 105864.
- Murugan, L., Krishnan, N., Venkataravanappa, V., Saha, S., Mishra, A., Sharma, B., & Rai, A. (2020). Molecular characterization and race identification of *Fusarium oxysporum* f. sp. lycopersici infecting tomato in India. *3 Biotech*, 10, 1-12.
- Numan, M., Bashir, S., Khan, Y., Mumtaz, R., Shinwari, Z. K., Khan, A. L., Khan, A., & Ahmed, A.-H. (2018). Plant growth promoting bacteria as an alternative strategy for salt tolerance in plants: a review. *Microbiological research*, 209, 21-32.
- Ondrasek, G., Rengel, Z., Maurović, N., Kondres, N., Filipović, V., Savić, R., Blagojević, B., Tanaskovik, V., Gergichevich, C. M., & Romić, D. (2021). Growth and element

- uptake by salt-sensitive crops under combined NaCl and Cd stresses. *Plants*, 10(6), 1202.
- Orozco-Mosqueda, M. d. C., Flores, A., Rojas-Sánchez, B., Urtis-Flores, C. A., Morales-Cedeño, L. R., Valencia-Marin, M. F., Chávez-Avila, S., Rojas-Solis, D., & Santoyo, G. (2021). Plant growth-promoting bacteria as bioinoculants: attributes and challenges for sustainable crop improvement. *Agronomy*, 11(6), 1167.
- Pal, K. K., & Gardener, B. M. (2006). Biological control of plant pathogens. *The plant health instructor*, 2(5), 1117-1142.
- Palaniyandi, S., Damodharan, K., Yang, S., & Suh, J. (2014). *Streptomyces* sp. strain PGPA39 alleviates salt stress and promotes growth of 'Micro Tom' tomato plants. *Journal of applied microbiology*, 117(3), 766-773.
- Parveen, G., Noreen, R., Shafique, H., Sultana, V., Ehteshamul-Haque, S., & Athar, M. (2019). Role of rhizobia in suppressing the root diseases of soybean under soil amendment. *Planta daninha*, 37, e019172336.
- Patten, C. L., & Glick, B. R. (2002). Role of *Pseudomonas putida* indoleacetic acid in development of the host plant root system. *Applied and Environmental Microbiology*, 68(8), 3795-3801.
- Pfaffl, M. W. (2001). A new mathematical model for relative quantification in real-time RT-PCR. *Nucleic acids research*, 29(9), e45-e45.
- Poria, V., Debiec-Andrzejewska, K., Fiodor, A., Lyzohub, M., Ajijah, N., Singh, S., & Pranaw, K. (2022). Plant Growth-Promoting Bacteria (PGPB) integrated phytotechnology: A sustainable approach for remediation of marginal lands. *Frontiers in plant science*, 13, 999866.
- Portenoy, R. K., Ganae-Motan, E. D., Allende, S., Yanagihara, R., Shaiova, L., Weinstein, S., McQuade, R., Wright, S., & Fallon, M. T. (2012). Nabiximols for opioid-treated cancer patients with poorly-controlled chronic pain: a randomized, placebo-controlled, graded-dose trial. *The Journal of Pain*, 13(5), 438-449.
- Potter, D. J. (2014). A review of the cultivation and processing of cannabis (*Cannabis sativa* L.) for production of prescription medicines in the UK. *Drug testing and analysis*, 6(1-2), 31-38.
- Prakamhang, J., Tittabutr, P., Boonkerd, N., Teamtisong, K., Uchiumi, T., Abe, M., & Teaumroong, N. (2015). Proposed some interactions at molecular level of

- PGPR coinoculated with *Bradyrhizobium diazoefficiens* USDA110 and *B. japonicum* THA6 on soybean symbiosis and its potential of field application. *Applied Soil Ecology*, 85, 38-49.
- Pretty, J. (2008). Agricultural sustainability: concepts, principles and evidence. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363(1491), 447-465.
- Qurashi, A. W., & Sabri, A. N. (2012). Bacterial exopolysaccharide and biofilm formation stimulate chickpea growth and soil aggregation under salt stress. *Brazilian Journal of Microbiology*, 43, 1183-1191.
- Rabbee, M. F., Ali, M. S., Choi, J., Hwang, B. S., Jeong, S. C., & Baek, K.-h. (2019). *Bacillus velezensis*: a valuable member of bioactive molecules within plant microbiomes. *Molecules*, 24(6), 1046.
- Ramakrishna, S., Ngowi, A., Jager, H. D., & Awuzie, B. O. (2020). Emerging industrial revolution: Symbiosis of industry 4.0 and circular economy: The role of universities. *Science, Technology and Society*, 25(3), 505-525.
- Ravensberg, W. J. (2011). A roadmap to the successful development and commercialization of microbial pest control products for control of arthropods (Vol. 10). *Springer Science & Business Media*.
- Ren, H., & Gray, W. M. (2015). SAUR proteins as effectors of hormonal and environmental signals in plant growth. *Molecular plant*, 8(8), 1153-1164.
- Ruiz-Garcia, C., Bejar, V., Martinez-Checa, F., Llamas, I., & Quesada, E. (2005). *Bacillus velezensis* sp. nov., a surfactant-producing bacterium isolated from the river Vélez in Málaga, southern Spain. *International Journal of Systematic and Evolutionary Microbiology*, 55(1), 191-195.
- Rupasinghe, H. V., Davis, A., Kumar, S. K., Murray, B., & Zheljzkov, V. D. (2020). Industrial hemp (*Cannabis sativa* subsp. *sativa*) as an emerging source for value-added functional food ingredients and nutraceuticals. *Molecules*, 25(18), 4078.
- Russo, E. B. (2011). Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects. *British journal of pharmacology*, 163(7), 1344-1364.

- Saied, M. (2011). Evaluation of hot water soil treatment against cucumber root rot disease under greenhouse conditions. *Research Journal of Agriculture and Biological Sciences*, 7(2), 212-222.
- Saikia, J., Sarma, R. K., Dhandia, R., Yadav, A., Bharali, R., Gupta, V. K., & Saikia, R. (2018). Alleviation of drought stress in pulse crops with ACC deaminase producing rhizobacteria isolated from acidic soil of Northeast India. *Scientific reports*, 8(1), 3560.
- Shah, A. M., Yan, X., Shah, S. A. A., & Mamirkulova, G. (2020). Mining patient opinion to evaluate the service quality in healthcare: a deep-learning approach. *Journal of Ambient Intelligence and Humanized Computing*, 11, 2925-2942.
- Sharma, S. B., Sayyed, R. Z., Trivedi, M. H., & Gobi, T. A. (2013). Phosphate solubilizing microbes: sustainable approach for managing phosphorus deficiency in agricultural soils. *SpringerPlus*, 2, 1-14.
- Shin, J.-H., Park, B.-S., Kim, H.-Y., Lee, K.-H., & Kim, K. S. (2021). Antagonistic and plant growth-promoting effects of *Bacillus velezensis* BS1 isolated from rhizosphere soil in a pepper field. *The Plant Pathology Journal*, 37(3), 307.
- Sibponkrung, S., Kondo, T., Tanaka, K., Tittabutr, P., Boonkerd, N., Yoshida, K.-i., & Teaumroong, N. (2020). Co-inoculation of *Bacillus velezensis* strain S141 and Bradyrhizobium strains promotes nodule growth and nitrogen fixation. *Microorganisms*, 8(5), 678.
- Singh, G. (2019). *Plant systematics: an integrated approach*. CRC Press.
- Small, E. (2015). Evolution and classification of *Cannabis sativa* (marijuana, hemp) in relation to human utilization. *The botanical review*, 81, 189-294.
- Small, E. (2017). Classification of *Cannabis sativa* L. in relation to agricultural, biotechnological, medical and recreational utilization. *Cannabis sativa L.- Botany and biotechnology*, 1-62.
- Smith, S. E., & Read, D. J. (2010). *Mycorrhizal symbiosis*. Academic press.
- Snehalatharani, A., Devappa, V., & Sangeetha, C. (2021). Postharvest diseases of banana and their management. In *Postharvest Handling and Diseases of Horticultural Produce* (pp. 201-210). CRC Press.

- Song, S., Chang, J., Ma, C., & Tan, Y.-W. (2017). Single-molecule fluorescence methods to study plant hormone signal transduction pathways. *Frontiers in plant science*, 8, 1888.
- Songwattana, P., Boonchuen, P., Piromyou, P., Wongdee, J., Greetatorn, T., Inthaisong, S., Tantasawat, P. A., Teamtisong, K., Tittabutr, P., & Boonkerd, N. (2023). Insights into antifungal mechanisms of *Bacillus velezensis* S141 against *Cercospora* leaf spot in mungbean (*V. radiata*). *Microbes and environments*, 38(1), ME22079.
- Sorour, A. A., Khairy, H., Zaghloul, E. H., & Zaghloul, H. A. (2022). Microbe-plant interaction as a sustainable tool for mopping up heavy metal contaminated sites. *BMC microbiology*, 22(1), 174.
- Stegelmeier, A. A., Rose, D. M., Joris, B. R., & Glick, B. R. (2022). The use of PGPB to promote plant hydroponic growth. *Plants*, 11(20), 2783.
- Strashnov, I., Ahmed, F. T., Alrashdi, M. M., Nesmiyan, I., & Polya, D. A. (2024). Gas Chromatography Tandem Mass Spectrometry (GC-MS/MS) for High-Throughput Screening of Pesticides in Rice Samples Collected in Bangladesh and Saudi Arabia. *Processes*, 12(10), 2170.
- Sultana, F., & Hossain, M. M. (2022). Assessing the potentials of bacterial antagonists for plant growth promotion, nutrient acquisition, and biological control of southern blight disease in tomato. *PLoS One*, 17(6), e0267253.
- Szopa, D., Mielczarek, M., Skrzypczak, D., Izydorczyk, G., Mikula, K., Chojnacka, K., & Witek-Krowiak, A. (2022). Encapsulation efficiency and survival of plant growth-promoting microorganisms in an alginate-based matrix—A systematic review and protocol for a practical approach. *Industrial crops and products*, 181, 114846.
- Takahashi, F., Suzuki, T., Osakabe, Y., Betsuyaku, S., Kondo, Y., Dohmae, N., Fukuda, H., Yamaguchi-Shinozaki, K., & Shinozaki, K. (2018). A small peptide modulates stomatal control via abscisic acid in long-distance signalling. *Nature*, 556(7700), 235-238.
- Thiele, E. A., Marsh, E. D., French, J. A., Mazurkiewicz-Beldzinska, M., Benbadis, S. R., Joshi, C., Lyons, P. D., Taylor, A., Roberts, C., & Sommerville, K. (2018). Cannabidiol in patients with seizures associated with Lennox-Gastaut

- syndrome (GWPCARE4): a randomised, double-blind, placebo-controlled phase 3 trial. *The Lancet*, 391(10125), 1085-1096.
- Tilman, D., Cassman, K. G., Matson, P. A., Naylor, R., & Polasky, S. (2002). Agricultural sustainability and intensive production practices. *Nature*, 418(6898), 671-677.
- Upton, K. V. (2018). An investigation into compassion fatigue and self-compassion in acute medical care hospital nurses: A mixed methods study. *Journal of Compassionate health care*, 5(1), 1-27.
- Van Maele-Fabry, G., Gamet-Payraastre, L., & Lison, D. (2017). Residential exposure to pesticides as risk factor for childhood and young adult brain tumors: A systematic review and meta-analysis. *Environment international*, 106, 69-90.
- Van Wees, S. C., Van der Ent, S., & Pieterse, C. M. (2008). Plant immune responses triggered by beneficial microbes. *Current opinion in plant biology*, 11(4), 443-448.
- Velasco, G., Sánchez, C., & Guzmán, M. (2012). Towards the use of cannabinoids as antitumour agents. *Nature Reviews Cancer*, 12(6), 436-444.
- Viejobueno, J., Albornoz, P. L., Camacho, M., de los Santos, B., Martínez-Zamora, M. G., & Salazar, S. M. (2021). Protection of strawberry plants against charcoal rot disease (*Macrophomina phaseolina*) induced by *Azospirillum brasilense*. *Agronomy*, 11(2), 195.
- Villaverde, J. J., Sevilla-Morán, B., Sandín-España, P., López-Goti, C., & Alonso-Prados, J. L. (2014). Biopesticides in the framework of the European Pesticide Regulation (EC) No. 1107/2009. *Pest management science*, 70(1), 2-5.
- Vinale, F., Sivasithamparam, K., Ghisalberti, E. L., Woo, S. L., Nigro, M., Marra, R., Lombardi, N., Pascale, A., Ruocco, M., & Lanzuise, S. (2014). Trichoderma secondary metabolites active on plants and fungal pathogens. *Open Mycol. J.*, 8(1), 127-139.
- Vitorino, L. C., Silva, F. O. d., Cruvinel, B. G., Bessa, L. A., Rosa, M., Souchie, E. L., & Silva, F. G. (2020). Biocontrol potential of *Sclerotinia sclerotiorum* and physiological changes in soybean in response to *Butia archeri* palm rhizobacteria. *Plants*, 9(1), 64.

- Volkow, N. D., Baler, R. D., Compton, W. M., & Weiss, S. R. (2014). Adverse health effects of marijuana use. *New England Journal of Medicine*, 370(23), 2219-2227.
- Wallace, R. L., Hirkala, D. L., & Nelson, L. M. (2018). Efficacy of *Pseudomonas fluorescens* for control of Mucor rot of apple during commercial storage and potential modes of action. *Canadian journal of microbiology*, 64(6), 420-431.
- Wanas, A. S., Radwan, M. M., Chandra, S., Lata, H., Mehmedic, Z., Ali, A., Baser, K., Demirci, B., & ElSohly, M. A. (2020). Chemical Composition of Volatile Oils of Fresh and Air-Dried Buds of Cannabis c hemovars, Their Insecticidal and Repellent Activities. *Natural Product Communications*, 15(5), 1934578X20926729.
- Wu, L., Wu, H., Chen, L., Xie, S., Zang, H., Borriss, R., & Gao, X. (2014). Bacilysin from *Bacillus amyloliquefaciens* FZB42 has specific bactericidal activity against harmful algal bloom species. *Applied and Environmental Microbiology*, 80(24), 7512-7520.
- Wu, W., Liu, Y., Wang, Y., Li, H., Liu, J., Tan, J., He, J., Bai, J., & Ma, H. (2017). Evolution analysis of the Aux/IAA gene family in plants shows dual origins and variable nuclear localization signals. *International journal of molecular sciences*, 18(10), 2107.
- Yadav, A., Shukla, A., Verma, V., & Gahlot, D. (1985). Biofertilizers and organic fertilizers in fertilizer control order. National Seminar on “Organic and Biological Inputs- New Innovations and Quality Control, Published by National Centre of Organic Farming, DAC, Ghaziabad,
- Yue, Y., Wang, J., Ren, W., Zhou, Z., Long, X., Gao, X., & Rengel, Z. (2022). Expression of genes related to plant hormone signal transduction in jerusalem artichoke (*Helianthus tuberosus* L.) seedlings under salt stress. *Agronomy*, 12(1), 163.
- Zhang, Q., Gong, M., Xu, X., Li, H., & Deng, W. (2022). Roles of auxin in the growth, development, and stress tolerance of horticultural plants. *Cells*, 11(17), 2761.
- Zhang, S., Li, C., Si, J., Han, Z., & Chen, D. (2022). Action mechanisms of effectors in plant-pathogen interaction. *International journal of molecular sciences*, 23(12), 6758.

Zhang, Y., Li, T., Xu, M., Guo, J., Zhang, C., Feng, Z., Peng, X., Li, Z., Xing, K., & Qin, S. (2021). Antifungal effect of volatile organic compounds produced by *Pseudomonas chlororaphis* subsp. *aureofaciens* SPS-41 on oxidative stress and mitochondrial dysfunction of *Ceratocystis fimbriata*. *Pesticide Biochemistry and Physiology*, 173, 104777.