

- Aguilar-Meléndez, A., Morrell, P. L., Roose, M. L., & Kim, S. C. (2009). Genetic diversity and structure in semiwild and domesticated chiles (*Capsicum annuum*; Solanaceae) from Mexico. *American journal of botany*, 96(6), 1190–1202. <https://doi.org/10.3732/ajb.0800155>
- Alam, M.Z., Hamim, I., Ali, M., & Ashrafuzzaman, M. (2015). Effect of Seed Treatment on Seedling Health of Chili. *Journal of Environmental Science and Natural Resources*, 7, 177-181. <https://doi.org/10.3329/JESNR.V7I1.22167>
- Aloni, B., Pressman, E., & Karni, L. (1999). The effect of fruit load, defoliation and night temperature on the morphology of pepper flowers and on fruit shape. *Annals of Botany*, 83(5), 529-534.
- Amador-Ramírez, M.D. (2002). Critical period of weed control in transplanted chilli pepper. *Weed Research*, 42, 203-209. <https://doi.org/10.1046/j.1365-3180.2002.00278.x>
- Andrews, J. (1995). *Peppers: The domesticated capsicums*. University of Texas Press.
- Arimboor, R., Natarajan, R. B., Menon, K. R., Chandrasekhar, L. P., & Moorkoth, V. (2015). Red pepper (*Capsicum annuum*) carotenoids as a source of natural food colors: analysis and stability—a review. *Journal of food science and technology*, 52(3), 1258-1271.
- Babu, B. S., Pandravada, S. R., Rao, R. P., Anitha, K., Chakrabarty, S. K., & Varaprasad, K. S. (2011). Global sources of pepper genetic resources against arthropods, nematodes and pathogens. *Crop Protection*, 30(4), 389-400.
- Bakker, J.C., & Van-Uffelen, J.A.M. (1988). The effects of diurnal temperature regimes on growth and yield of sweet pepper. *Netherlands Journal of Agricultural Science*, 36, 201-208. <https://doi.org/10.18174/njas.v36i3.16670>
- Barboza, G. E., Agra, M. F., Romero, M. V., Scaldaferrro, M. A., & Moscone, E. A. (2011). New Endemic Species of *Capsicum* (Solanaceae) from the Brazilian Caatinga: Comparison with the Re-circumscribed *C. parvifolium*. *Systematic Botany*, 36(3), 768–781. <https://doi.org/10.1600/036364411x583718>
- Barboza, G. E., Carrizo García, C., Leiva González, S., Scaldaferrro, M., & Reyes, X. (2019). Four new species of *Capsicum* (Solanaceae) from the tropical Andes and an update on the phylogeny of the genus. *PloS one*, 14(1), e0209792. <https://doi.org/10.1371/journal.pone.0209792>
- Barboza, G.E., & Bianchetti, L.B. (2005). Three new species of *Capsicum* (Solanaceae) and a key to the wild species from Brazil. *Systematic Botany*, 30(4), 863–871. <https://doi.org/10.1600/03636440577509790>
- Barboza, G.E., Carrizo-García, C., Scaldaferrro, M., & Bohs, L. (2020 a) An amazing new *Capsicum* (Solanaceae) species from the Andean-Amazonian Piedmont. *PhytoKeys*, 167: 13–29. <https://doi.org/10.3897/phytokeys.167.57751>
- Barboza, G.E., de Bem Bianchetti, L., & Stehmann, J.R. (2020 b) *Capsicum carassense* (Solanaceae), a new species from the Brazilian Atlantic Forest. *PhytoKeys*, 140, 125–138. <https://doi.org/10.3897/phytokeys.140.47071>
- Barboza, G.E., Hunziker, A.T., Bernardello, G., Cocucci, A.A., Moscone, E.A., Carrizo- García, C., Fuentes, V., Dillon, M.O., Bittrich, V., Cosa, M.T., Subils, R., Romanutti, A., Arroyo, S., & Anton, A. (2016). Solanaceae. In: Kadereit, J., Bittrich, V. (eds) *Flowering Plants. Dicotyledons: The Families and Genera of Vascular Plants*. Springer, 14, 295–357. https://doi.org/10.1007/978-3-319-28534-4_29
- Barchenger, D. W., Naresh, P., & Kumar, S. (2019). Genetic resources of *Capsicum*. In *The Capsicum genome*, Springer, 9-23.

- Barchenger, D.W., & Khoury C.K. (2022). A Global Strategy for the Conservation and Use of *Capsicum* Genetic Resources. *Global Crop Diversity Trust*. Bonn, Germany. (In press)
- Barik, S.P., Devi, A.K.P., Ananda, A., & Konthoujam, J. (2017). Effect of planting time and spacing on reproductive growth and physiological changes in king chilli (*Capsicum chinense*) under poly-house condition. *Pharma Innovation*, 6(10), 342-344.
- Barka, G. D., & Lee, J. (2020). Molecular marker development and gene cloning for diverse disease resistance in pepper (*Capsicum annum* L.): Current status and prospects. *Plant breeding and biotechnology*, 8(2), 89-113.
- Basith, S., Cui, M., Hong, S., & Choi, S. (2016). Harnessing the therapeutic potential of capsaicin and its analogues in pain and other diseases. *Molecules*, 21(8), 966. [10.3390/molecules21080966](https://doi.org/10.3390/molecules21080966)
- Basu, S.K., & De, A.K. (2003) Capsicum: historical and botanical perspectives. In: De AK (ed) Capsicum: the genus Capsicum. CRC press, 1-15. <https://doi.org/10.1201/9780203381151>
- Batal, K.M., & Smittle, D.A. (1981). Response of bell pepper to irrigation, nitrogen and plant population. *Journal of the American Society for Horticultural Science*, 106, 259- 262.
- Berke, T., Black, L., Morris, R., Talekar, N., & Wang, J. (n.d.). 1993.Suggested Cultural Practices for Sweet Pepper Climate and soil requirements. <https://avrdc.org/download/publications/crop-guides/peppers/e03420.pdf>
- Berke, T., Black, L.L., Talekar, N.S., Wang, J.F., Gniffke, P., Green, S.K., Wang, T.C., & Morris, R. (2005). Suggested cultural practices for chili pepper. AVRDC, *Shanhua. International Cooperators' guide*. <http://www.avrdc.org/LC/pepper/publications.html>.
- Boateng, E., Adjei, E. A., Osei, M. K., Offei, K. O., & Olympio, N. S. (2021). Response of plant spacing on the morphology and yield of five hot pepper lines. *African Journal of Agricultural Research*, 17(10), 1281-1287. <https://doi.org/10.5897/AJAR2017>
- Borah, B. K., & Dasgupta, I. (2012). *Begomovirus* research in India: a critical appraisal and the way ahead. *Journal of biosciences*, 37(4), 791-806.
- Bosland, P. W. (1993). An effective plant field cage to increase the production of genetically pure chile (*Capsicum* spp.) seed. *HortScience*, 28(10), 1053-1053.
- Bosland, P. W., & Votava, E. J. (2000). Peppers: vegetable and spice capsicums. crop production science in horticulture. *Peppers: Vegetable and Spice Capsicums* (Wallingford, CT: CAB International Publishing. <http://dx.doi.org/10.1079/9781845938253.0000>
- Bosland, P. W., Coon, D., & Cooke, P. H. (2015). Novel formation of ectopic (nonplacental) capsaicinoid secreting vesicles on fruit walls explains the morphological mechanism for super-hot chile peppers. *Journal of the American Society for Horticultural Science*, 140(3), 253-256.
- Bosland, P., & Walker, S. (2014). Growing Chiles in New Mexico- Guide, New Mexico state university H-230. https://pubs.nmsu.edu/_h/H230.pdf
- Bosland, P.W., & Votava, E.J. (2012). Peppers, vegetable and spice capsicum (2nd edn.) CABI publishers. <http://dx.doi.org/10.1079/9781845938253.0000>
- Burt, J. (2005). Growing capsicums and chillies- Technical insights 64/99. Department of agriculture and food, State of Western Australia,
- Caranta, C., Palloix, A., Gebre, S.K., Lefebvre, V., Moury, B. & Daubeze, A.M. (1996). A complementation of two genes originating from susceptible *Capsicum annum* lines

- confers a new and complete resistance to pepper veinal mottle virus. *Phytopathology*, 86, 739–743.
- Carrizo García, C., Barfuss, M. H., Sehr, E. M., Barboza, G. E., Samuel, R., Moscone, E. A., & Ehrendorfer, F. (2016). Phylogenetic relationships, diversification and expansion of chili peppers (*Capsicum*, Solanaceae). *Annals of botany*, 118(1), 35–51. <https://doi.org/10.1093/aob/mcw079>
- Chakraborty, S., Pandey, P. K., Banerjee, M. K., Kalloo, G., & Fauquet, C. M. (2003). Tomato leaf curl Gujarat virus, a new begomovirus species causing a severe leaf curl disease of tomato in Varanasi, India. *Phytopathology*, 93(12), 1485-1495.
- Cochran, H.L. (1942). Influence of photoperiod on the time of flower primordia differentiation in the Perfection pimento (*Capsicum frutescens* L.). *Proceedings of the American Society for Horticultural Science*, 40: 493-497.
- Collinge, D. B., Kragh, K. M., Mikkelsen, J. D., Nielsen, K. K., Rasmussen, U., & Vad, K. (1993). Plant chitinases. *The Plant journal: for cell and molecular biology*, 3(1), 31–40. <https://doi.org/10.1046/j.1365-313x.1993.t01-1-00999.x>
- Dary, O., & Mora, J. O. (2002). Food fortification to reduce vitamin A deficiency: International Vitamin A Consultative Group recommendations. *The Journal of nutrition*, 132(9), 2927S-2933S.
- Dastur, J. F. (1920). *Choanephora cucurbitarum*, (B. and Rav.) Thaxter, on chillies (*Capsicum* spp.). *Annals of Botany*, 34(135), 399-403.
- Davenport, W.A. (1970). Progress report on the domestication of *Capsicum* (chili peppers). *Proceedings of Association of American of Geographers*, 2, 46–47.
- Decoteau, D. R., & Graham, H. A. H. (1994). Plant Spatial Arrangement Affects Growth, Yield, and Pod Distribution of Cayenne Peppers. *HortScience*, 29(3), 149-151. <https://doi.org/10.21273/HORTSCI.29.3.149>
- DeWitt, D., Stock, M. T., & Hunter, K. (1998). *The Healing Power of Peppers: With Chile Pepper Recipes and Folk Remedies for Better Health and Living*. Three Rivers Press.
- Dharamadhaj, P., & Prakash, N. (1978). Development of the anther and ovule in *Capsicum* L. *Australian Journal of Botany*, 26(3), 433-439.
- Dogimont, C., Palloix, A., Daubze, A.-M., Marchoux, G., Selassie, K.G., & Pochard, E. (1996). Genetic analysis of broad spectrum resistance to potyviruses using doubled haploid lines of pepper (*Capsicum annuum* L.). *Euphytica*, 88, 231–239.
- Edgar, O., Gweyi-Onyango, J., & Korir, N. (2017). Plant Row Spacing Effect on Growth and Yield of Green Pepper (*Capsicum annuum* L.) in Western Kenya. *Archives of Current Research International*, 7(3), 1–9. <https://doi.org/10.9734/acri/2017/33101>
- Edwardson, J.R., & Christie, R.G. (1991). Cucumoviruses. In: *Handbook of Viruses Infecting Legumes*, Edwardson, J.R. and R.G. Christie (Eds.). CRC Press., pp, 293-319.
- Eggersdorfer, M., & Wyss, A. (2018). Carotenoids in human nutrition and health. *Archives of biochemistry and biophysics*, 652, 18-26.
- Elad, Y., Messika, Y., Brand, M., David, D.R., & Sztejnberg, A. (2007). Effect of Colored Shade Nets on Pepper Powdery Mildew (*Leveillula taurica*). *Phytoparasitica*, 35(3), 285-299. <https://doi.org/10.1007/BF02981163>
- Erickson, A. N. & Markhart, A. H. (2002). Flower developmental stage and organ sensitivity of bell pepper (*Capsicum annuum* L.) to elevated temperature. *Plant Cell Environment*. 25, 123–130. <https://doi.org/10.1046/j.0016-8025.2001.00807.x>

- Eshbaugh, W. H. (1993). Peppers: History and exploitation of a serendipitous new crop discovery. *New crops*.
- Eshbaugh, W.H. (2012). The taxonomy of the genus *Capsicum*. Ed. Vincent M. Russo, In: Peppers: Botany, Production and Uses, CAB International, pp, 14-28.
<http://dx.doi.org/10.1079/9781845937676.0000>
- FAOSTAT (2020) www.faostat.fao.org (accessed on 2 May 2022)
- Finch, H.J.S., Samuel, A.M., & Lane, G.P.F. (2014). Soils and soil management, Lockhart & Wiseman's Crop Husbandry. Woodhead Publishing in Food Science, Technology and Nutrition (ninth edition), pp 37-62. <https://doi.org/10.1533/9781782423928.1.37>
- Fulton, J. C., & Uchanski, M. E. (2017). A Review of Chile Pepper (*Capsicum annuum*) Stip: A Physiological Disorder of Peppers, *HortScience*, 52(1), 4-9.
<https://doi.org/10.21273/HORTSCI11123-16>
- Ganeshamurthy, A. N., Kalaivanan, D., & Satisha, G. C. (2016). Management of Vegetable Crops in Acid Soils of India. In: *Innovations in Horticultural Sciences*, pp. 559-584.
- Gelsomino, A., Abenavoli, M. R., Princi, G., Attinà, E., Cacco, G. and Sorgonà, A. (2010). Compost from fresh orange waste: a suitable substrate for nursery and field crops? *Compost Science and Utilization*, 18(3), 201–210. doi: 10.1080/1065657X.2010.10736956
- Giuffrida, D., Dugo, P., Torre, G., Bignardi, C., Cavazza, A., Corradini, C., & Dugo, G. (2013). Characterization of 12 *Capsicum* varieties by evaluation of their carotenoid profile and pungency determination. *Food Chemistry*, 140(4), 794-802.
- Granger, M., & Eck, P. (2018). Dietary Vitamin C in Human Health. *Advances in Food Nutritional Research*. 83, 281-310. doi: 10.1016/bs.afnr.2017.11.006.
- Greenleaf, W. H. (1986). Pepper breeding. *Breeding Vegetable Crop*, 67-134.
- Grube, R.C., Radwanski, E.R. and Jahn MM. (2000). Comparative genetics of disease resistance within the Solanaceae. *Genetics*, 155, 873–887.
- Guzmán, F. A., Dean, E., & Bohs, L. (2009). Hot or not so hot: phylogenetic relationships in *Capsicum* & *Lycianthes* (Solanaceae). In *Poster presented at the Botany and Mycology 2009 Meeting, Snowbird, Utah*. [<http://2009.botanyconference.org/engine/search/index.php>].
- Haak, D. C., Kostyun, J. L., & Moyle, L. C. (2014). Merging ecology and genomics to dissect diversity in wild tomatoes and their relatives in Ecological Genomics. In: *Ecology and the Evolution of Genes and Genomes*, eds C. R. Landry and N. Aubin-Horth, Springer, 273–298. <https://doi.org/10.1007/978-94-007-7347-9>
- Hausbeck, M. K., & Lamour, K. H. (2004). *Phytophthora capsici* on Vegetable Crops: Research Progress and Management Challenges. *Plant disease*, 88(12), 1292–1303.
<https://doi.org/10.1094/PDIS.2004.88.12.1292>
- Heiser, C. B. (1969). Nightshades, the paradoxical plants. San Francisco, CA: WH Freeman.
- Howard, L.R., & Wildman, R.E. (2006). Handbook of Nutraceuticals and Functional Foods, 2nd ed.; Wildman, R.E.C., Ed.; CRC Press, 165–191.
- Ince, A.G., Karaca, M., & Onus, A.N. (2009). Development and utilization of diagnostic DAMD-PCR markers for *Capsicum* accessions. *Genetic Resources and Crop Evolution*, 56, 211-221. DOI:[10.1007/s10722-008-9356-4](https://doi.org/10.1007/s10722-008-9356-4)
- IPGRI, A. (1995). CATIE. Descriptors for *Capsicum* (*Capsicum* spp.). International Plant Genetic Resources Institute, Rome, Italy; the Asian Vegetable Research and

- Development Center, Taipei, Taiwan, and the Centro Agronómico Tropical de Investigación y Enseñanza. *Turrialba, Costa Rica*, 110.
- Islam, M., Saha, S., Akand, H., & Rahim, A. (2011). Effect of spacing on the growth and yield of sweet pepper (*Capsicum annuum* L.). *Journal of Central European Agriculture*, 12(2), 328–335. <https://doi.org/10.5513/jcea01/12.2.917>
- Jabłońska-Sabuka, M., Kalaria, R., & Kauranne, T. (2015). A dynamical model for epidemic outbreaks by begomovirus population clusters. *Ecological Modelling*, 297, 60–68.
- Jarret, R. L., & Dang, P. (2004). Revisiting the waxy locus and the *Capsicum annuum* L. complex. *Georgia Journal of Science*, 62(3), 118.
- Jarret, R. L., Barboza, G. E., Costa Batista, F. R. D., Berke, T., Chou, Y., Hulse-Kemp, A., Ochoa-Alejo, N., Tripodi, P., Veres, A., Garcia, C. C., Csillery, G., Huang, Y., Kiss, E., Kovacs, Z., Kondrak, M., Arce-Rodriguez, M. L., Scaldaferrro, M. A., & Szoke, A. (2019). *Capsicum*—An Abbreviated Compendium, *Journal of the American Society for Horticultural Science*, 144(1), 3–22 <https://doi.org/10.21273/JASHS04446-18>
- Jones, J. B., Woltz, S. S., & Jones, J. P. (1983). Effect of foliar and soil magnesium application on infiltration inoculations, bacterial leaf spot of peppers. *Plant Disease*, 67, 623–624.
- Kang, B.C., Yeam, I., Frantz, J. D., Murphy, J. F., & Jahn, M. M. (2005). The pvr1 locus in *Capsicum* encodes a translation initiation factor eIF4E that interacts with Tobacco etch virus VPg. *The Plant Journal*, 42(3), 392–405. doi:10.1111/j.1365-313x.2005.02381.x
- Kantar, M. B., Anderson, J. E., Lucht, S. A., Mercer, K., Bernau, V., Case, K. A., ... & Baumler, D. J. (2016). Vitamin variation in *Capsicum* spp. provides opportunities to improve nutritional value of human diets. *PLoS One*, 11(8), e0161464.
- Kenyon, L., Hanson, P., Kumar, S., Shih, S.L., Hsieh, M.H., Chen, H.Y., Lu, S.F., Wang, Y.Y., Lin, S.W. & Cheng, Y.H. (2017). Treatment for cleaning small seed lots of tomato and pepper seeds of surface contamination with viroids. The World Vegetable Center. <https://worldveg.tind.io/record/74053?ln=en>
- Kenyon, L., Kumar, S., Tsai, W. S., & Hughes, J. D. (2014). Virus diseases of peppers (*Capsicum* spp.) and their control. *Advances in virus research*, 90, 297–354. <https://doi.org/10.1016/B978-0-12-801246-8.00006-8>
- Kim, S.B., Kang, W.H., Huy, H.N., Yeom, S.I., An, J.T., Kim, S., Kang, M.Y., Kim, H.J., Jo, Y.D., & Ha, Y. (2017). Divergent evolution of multiple virus-resistance genes from a progenitor in *Capsicum* spp. *New Phytologist*, 213, 886–899.
- Kirschbaum-Titze, P., Hiepler, C., Mueller-Seitz, E., & Petz, M. (2002). Pungency in paprika (*Capsicum annuum*). 1. Decrease of capsaicinoid content following cellular disruption. *Journal of agricultural and food chemistry*, 50(5), 1260–1263. <https://doi.org/10.1021/jf010527a>
- Kraft, K. H., Brown, C. H., Nabhan, G. P., Luedeling, E., Ruiz, J., de J. L., d'Eeckenbrugge, G. C., et al. (2014). Multiple lines of evidence for the origin of domesticated chili pepper, *Capsicum annuum*, in Mexico. *Proceedings of National Academy of Sciences, USA*, 111, 6165–6170. doi: 10.1073/pnas.1308933111
- Kumar, R. V., Singh, A. K., Singh, A. K., Yadav, T., Basu, S., Kushwaha, N., ... & Chakraborty, S. (2015). Complexity of begomovirus and betasatellite populations associated with chilli leaf curl disease in India. *Journal of General Virology*, 96(10), 3143–3158.
- Kumar, S., & Rai, M. (2005). Chile in India. *Chile Pepper Institute Newsletter (XXII)*, pp. 1–3
- Kyle, M.M. & Palloix, A. (1997). Proposed revision of nomenclature for potyvirus resistance genes in *Capsicum*. *Euphytica*, 97, 183–188.

- Lal, M., Kanwar, H. S., Kanwar, R., & Lal, C. (2016). Effect of planting density and training on plant health and seed quality of bell pepper (*Capsicum annuum* L.) under protected conditions. *Journal of Applied and Natural Science*, 8(3), 1219–1222.
<https://doi.org/10.31018/jans.v8i3.944>
- Lee, H.R., An, H., Young, Y., Lee, J., Kim, H.J., Kang, B.C., & Harn, C. (2013). Development of a novel codominant molecular marker for chili veinal mottle virus resistance in *Capsicum annuum* L. *Euphytica*, 193. 10.1007/s10681-013-0897-z
- Lee, J. H., An, J. T., Siddique, M. I., Han, K., Choi, S., Kwon, J. K., & Kang, B. C. (2017). Identification and molecular genetic mapping of Chili veinal mottle virus (ChiVMV) resistance genes in pepper (*Capsicum annuum*). *Molecular Breeding*, 37(10), 1-10.
- Lee, J. M., Jahn, M. M., & Yeam, I. (2013). Allelic relationships at the pvr1 locus in *Capsicum annuum*. *Euphytica*, 194(3), 417-424.
- Leonian, L. H. (1919). Fusarium wilt of chile pepper. New Mexico Agriculture Experiment Station, *Technical bulletin*, 121.
- Leonian, L. H. (1922). Stem and fruit blight of peppers caused by *Phytophthora capsici* sp. nov. *Phytopathology*, 12(9).
- Li-ju Lin., Gregory, C., Luther., & Peter, H. (2015). Raising healthy tomato seedlings. *AVRDC Publication*, No. 15-795. https://avrdc.org/wpfb-file/tomato-seedlings_web-pdf/
- Lin, S. W., Shieh, H. C., Wang, Y. W., Tan, C. W., Schafleitner, R., Yang, W. J., & Kumar, S. (2015). Restorer breeding in sweet pepper: introgressing Rf allele from hot pepper through marker-assisted backcrossing. *Scientia Horticulturae*, 197, 170-175.
- Lownds, N. K., Banaras, M., & Bosland, P. W. (1993). Relationships between postharvest water loss and physical properties of pepper fruit (*Capsicum annuum* L.). *HortScience*, 28(12), 1182-1184.
- Lozada, D. N., Bosland, P., Barchenger, D. W., Haghshenas-Jaryani, M., Sanogo, S., & Walker, S. (2022). Chile Pepper (*Capsicum*) Breeding and Improvement in the “Multi-Omics” Era. *Front Plant Sci*, 13, 879182.
- Lozada, D. N., Coon, D. L., Guzmán, I., & Bosland, P. W. (2021). Heat profiles of ‘superhot’ and New Mexican type chile peppers (*Capsicum* spp.). *Scientia Horticulturae*, 283, 110088.
- Ludy, M. J., Moore, G. E., & Mattes, R. D. (2012). The effects of capsaicin and capsiate on energy balance: critical review and meta-analyses of studies in humans. *Chemical senses*, 37(2), 103–121. <https://doi.org/10.1093/chemse/bjr100>
- Luna-Ruiz J.D.J., Nabhan, G.P., & Aguilar-Melendez, A. (2018). Shifts in plant chemical defenses of chile pepper (*Capsicum annuum* L.) due to domestication in Mesoamerica. *Frontiers in Ecology and Evolution*, 6, 48. <https://doi.org/10.3389/fevo.2018.00048>
- Machado, R., & Serralheiro, R. (2017). Soil Salinity: Effect on Vegetable Crop Growth. Management Practices to Prevent and Mitigate Soil Salinization. *Horticulturae*, 3(2), 30. <http://dx.doi.org/10.3390/horticulturae3020030>
- Marouelli, W., & Silva, W.L.C. (2008). Irrigação. In: Ribeiro CSC, Lopes CA, Carvalho SIC, Henz GP, Reifscheider FJB (eds) *Pimentas Capsicum*. Brasília: Athalaia Gráfica e Editora Ltda, 95–108.
- Mohammed, B. (1992). Vegetable Seed Treatment. Report on plant disease, RPD No. 915. Department of crop sciences, University of Illinois Extension
<http://ipm.illinois.edu/diseases/rpds/915.pdf>
- Mongkolporn, O., & Taylor, P.W. (2011). *Capsicum*. In *Wild crop relatives: genomic and breeding resources*, 43-57. Springer, Berlin, Heidelberg.

- Morris, W.L., & Taylor, M.A. (2017). The Solanaceous Vegetable Crops: Potato, Tomato, Pepper, and Eggplant. *Encyclopedia of Applied Plant Sciences*, Academic press, Oxford, 2(3),55–58. doi:10.1016/B978-0-12-394807-6.00129-5
- Moscone, E. A., Scaldaferrro, M. A., Grabiele, M., Cecchini, N. M., Sánchez García, Y., Jarret, R., & Ehrendorfer, F. (2006). The evolution of chili peppers (*Capsicum*-Solanaceae): a cytogenetic perspective. In *VI International Solanaceae Conference: Genomics Meets Biodiversity* 7(45), 137-170.
- Moscone, E.A., Lambrou, M., Hunziker, A.T., & Ehrendorfer, F. (1993). Giemsa C-banded karyotypes in *Capsicum* (Solanaceae). *Plant Systematics and Evolution*, 186(34), 213–229. <https://doi.org/10.1007/BF00940799>
- Moury, B., & Verdin, E. (2012). Viruses of Pepper Crops in the Mediterranean Basin: A Remarkable Stasis. *Advances in virus research*. 84. 127-62. 10.1016/B978-0-12-394314-9.00004-X.
- Murphy, J.F., Blauth, J.R., Livingstone, K.D., Lackney, V.K. and Jahn, M.M. (1998) Genetic mapping of the pvr1 locus in *Capsicum* spp. and evidence that distinct potyvirus resistance loci control responses that differ at the whole plant and cellular levels. *Molecular Plant-Microbe Interactions*, 11, 943–951.
- Naves, E. R., de Ávila Silva, L., Sulpice, R., Araújo, W. L., Nunes-Nesi, A., Peres, L. E., & Zsögön, A. (2019). Capsaicinoids: pungency beyond *Capsicum*. *Trends in plant science*, 24(2), 109-120.
- Nee, M., Bohs, L., & Knapp, S. (2006). New species of *Solanum* and *Capsicum* (Solanaceae) from Bolivia, with clarification of nomenclature in some Bolivian *Solanum*. *Brittonia*, 58(4): 322–356. [https://doi.org/10.1663/0007-196X\(2006\)58\[322:NSOSAC\]2.0.CO;2](https://doi.org/10.1663/0007-196X(2006)58[322:NSOSAC]2.0.CO;2)
- Noss, C. F., & Levey, D. J. (2014). Does gut passage affect post-dispersal seed fate in a wild chili, *Capsicum annuum*?. *Southeastern Naturalist*, 13(3), 475-483.
- Ocharo, N., Edgar, J.P., Onyango, G., & Nicholas, K. (2017). Plant Row Spacing Effect on Growth and Yield of Green Pepper (*Capsicum annuum* L.) in Western Kenya. *Archives of Current Research International*, 7 (3), 1-9. <http://dx.doi.org/10.9734/ACRI/2017/33101>
- Odutola O. S. (2018). Introductory chapter: Relevance of soil ph to agriculture. In (Ed.) *Soil PH for Nutrient Availability and Crop Performance*. Intechopen. <https://doi.org/10.5772/intechopen.82551>
- Oliveira, F. D. A. D., Duarte, S. N., Medeiros, J. F. D., Aroucha, E. M. M., & Dias, N. D. S. (2015). Quality in the pepper under different fertigation managements and levels of nitrogen and potassium. *Revista Ciência Agronômica*, 46, 764-773.
- Padilha, H. K. M., & Barbieri, R. L. (2016). Plant breeding of chili peppers (*Capsicum*, Solanaceae)-A review.
- Padmanabhan, P., Cheema, A., & Paliyath, G. (2016). Solanaceous Fruits Including Tomato, Eggplant, and Peppers. *Encyclopedia of Food and Health*, 24–32. <https://doi.org/10.1016/b978-0-12-384947-2.00696-6>.
- Palop, J. J., Mucke, L., & Roberson, E. D. (2010). Quantifying biomarkers of cognitive dysfunction and neuronal network hyperexcitability in mouse models of Alzheimer’s disease: depletion of calcium-dependent proteins and inhibitory hippocampal remodeling. In *Alzheimer's Disease and Frontotemporal Dementia* (pp. 245-262). Humana Press, Totowa, NJ.

- Parisi, M., Daniela, A. & Pasquale, M. (2020). Overview of Biotic Stresses in Pepper (*Capsicum* spp.): Sources of Genetic Resistance, Molecular Breeding and Genomics. *International Journal of Molecular Sciences*, 21(7):2587. <http://dx.doi.org/10.3390/ijms21072587>
- Pereira, W. (2008). Manejo de plantas daninhas. In: Ribeiro CSC, Lopes CA, Carvalho SIC, Henz GP, Reifschneider FJB (eds) *Pimentas Capsicum*. Athalaia Gráfica e Editora Ltda, Brasília, pp 141–147.
- Perramond, E. (2005). The Politics of Ecology: local knowledge and wild chili collection in Sonora, Mexico. *Journal of Latin American Geography*, 4(1), 59–75. <http://www.jstor.org/stable/25765089>
- Perry, L., & Flannery, K. V. (2017). Precolumbian use of chili peppers in the valley of Oaxaca, Mexico. *Proceedings of the National Academy of Sciences*, 104, 11905–11909
- Perry, L., Dickau, R., Zarrillo, S., Holst, I., Pearsall, D. M., Piperno, D. R., & Zeidler, J. A. (2007). Starch fossils and the domestication and dispersal of chili peppers (*Capsicum* spp. L.) in the Americas. *Science*, 315, 986–988. <https://doi.org/10.1126/science.1136914>
- Pickersgill B. (2007). Domestication of plants in the Americas: insights from Mendelian and molecular genetics. *Annals of botany*, 100(5), 925–940. <https://doi.org/10.1093/aob/mcm193>
- Pickersgill, B. (1966). The variability and relationships of *Capsicum chinense* Jacq. *Ph.D. Dissertation*. Bloomington, IN: Indiana University
- Pickersgill, B. (1969). The archaeological record of chili peppers (*Capsicum* spp.) and the sequence of plant domestication in Peru. *American Antiquity*, 34, 51–64.
- Pickersgill, B. (1977). Taxonomy and the origin and evolution of cultivated plants in the New World. *Nature*, 268, 591–595. <https://doi.org/10.1038/268591a0>
- Pickersgill, B. (1991). Cytogenetics and evolution of *Capsicum* L. *Chromosome engineering in plants: genetics, breeding, evolution, part B*. Elsevier, Amsterdam, 139-160. <https://doi.org/10.1016/B978-0-444-88260-8.50013-6>
- Pickersgill, B. (1997). Genetic resources and breeding of *Capsicum* spp. *Euphytica*, 96, 129–133. <http://dx.doi.org/10.1023/A:1002913228101>
- Ramalho, E., Monteiro, M., & Fernando Luiz Finger. (2016). Production and Breeding of Chilli Peppers (*Capsicum* spp.). *SpringerLink*. <https://doi.org/10.1007-978-3-319-06532-8>
- Reddy, G. C., Hebbar, S. S., Nair, A. K., Raghupathy, H. B., Gowda, A. M., & Umesh, K. (2016). Growth and Yield Performance of Hybrid Hot Pepper, Chilli (*Capsicum annuum* L.) as Influenced by Fertigation and Polyethylene Mulching. *Journal of Horticultural Sciences*, 11(2), 151-155. <https://jhs.iihr.res.in/index.php/jhs/article/view/87>
- Ruffel, S., Dussault, M.H., Palloix, A., Moury, B., Bendahmane, A., Robaglia, C., & Caranta, C. (2002) A natural recessive resistance gene against Potato virus Y in pepper corresponds to the eukaryotic initiation factor 4E (eIF4E). *Plant Journal*, 32,1067–1075.
- Ruffel, S., Gallois, J. L., Moury, B., Robaglia, C., Palloix, A., & Caranta, C. (2006). Simultaneous mutations in translation initiation factors eIF4E and eIF(iso)4E are required to prevent pepper vein mottle virus infection of pepper. *The Journal of general virology*, 87(Pt 7), 2089–2098. <https://doi.org/10.1099/vir.0.81817-0>
- Rufino, J. D. S., & Pentead, D. C. S. (2006). Importância econômica, perspectivas e potencialidades do mercado para pimenta. *Informe agropecuário*, 27(235), 7-15.
- Rylski, I., & Spigelman, M. (1982). Effects of different diurnal temperature combinations on fruit set of sweet pepper. *Scientia Horticulturae*, 17, 101–106. [https://doi.org/10.1016/0304-4238\(82\)90001-2](https://doi.org/10.1016/0304-4238(82)90001-2)

- Sabet, A.K., Shahram, S., Mohammady, J., & Olfati, J.A. (2009). Effect of Plant Density on Bell Pepper Yield and Quality. *International Journal of Vegetable Science*, 15(3), 264-271. <https://doi.org/10.1080/19315260902830793>
- Sanogo S. (2004). Response of Chile Pepper to Phytophthora capsici in Relation to Soil Salinity. *Plant disease*, 88(2), 205–209. <https://doi.org/10.1094/PDIS.2004.88.2.205>
- Sarma, J., Dutta, G., & Devi, A. (2017). *Capsicum sonitpurensis* (Solanaceae)-A new species from Assam, India. *Bangladesh Journal of Plant Taxonomy*, 24(2), 215-218.
- Shankarappa, K. S., Rangaswamy, K. T., Aswathanarayana, D. S., Prameela, H. A., Kulkarni, R. S., Muniyappa, V., & Maruthi, M. N. (2008). Development of tomato hybrids resistant to tomato leaf curl virus disease in South India. *Euphytica*, 164(2), 531-539.
- Shil, S., Adhikary, P., Chandra, B., Viswavidyalaya, K., Bengal, W., Krishi, V., Kendra, Chebri, Khowai, W., & Tripura. (2014). Weed management in transplanted chilli. *Indian Journal of Weed Science*, 46(3), 261–263.
- Shiragaki, K., Yokoi, S., & Tezuka, T. (2020). Phylogenetic Analysis and Molecular Diversity of *Capsicum* Based on rDNA-ITS Region. *Horticulturae*, 6(4),87. <http://dx.doi.org/10.3390/horticulturae6040087>
- Simko, I., Jia, M., Venkatesh, J., Kang, B. C., Weng, Y., Barcaccia, G., & Foolad, M. R. (2021). Genomics and marker-assisted improvement of vegetable crops. *Critical Reviews in Plant Sciences*, 40(4), 303-365.
- Singh, A. K., Kushwaha, N., & Chakraborty, S. (2016). Synergistic interaction among begomoviruses leads to the suppression of host defense-related gene expression and breakdown of resistance in chilli. *Applied microbiology and biotechnology*, 100(9), 4035-4049.
- Singh, P., Cheema, D. S., Dhaliwal, M. S., & Garg, N. (2014). Heterosis and combining ability for earliness, plant growth, yield and fruit attributes in hot pepper (*Capsicum annuum* L.) involving genetic and cytoplasmic-genetic male sterile lines. *Scientia Horticulturae*, 168, 175-188.
- Stewart Jr, C., Mazourek, M., Stellari, G. M., O'Connell, M., & Jahn, M. (2007). Genetic control of pungency in *C. chinense* via the Pun1 locus. *Journal of Experimental Botany*, 58(5), 979-991.
- Stoffella, P. J., & Bryan, H. H. (1988). Plant population influences growth and yields of bell pepper. *Journal of the American Society for Horticultural Science (USA)*, 113 (6), 835-839.
- Sudré, C. P., Gonçalves, L. S. A., Rodrigues, R., Amaral Júnior, A. D., Riva-Souza, E. M., & Bento, C. D. S. (2010). Genetic variability in domesticated *Capsicum* spp. as assessed by morphological and agronomic data in mixed statistical analysis. *Genetics and molecular research*, 9(1), 283-294.
- Sun, T., Powers, J. R., & Tang, J. (2007). Evaluation of the antioxidant activity of asparagus, broccoli and their juices. *Food chemistry*, 105(1), 101-106.
- Swaminathan, B., Siva Balan, K. C., Anadaraja, N., Manikanda Boopathi, N., Schreinemachers, P., Srinivasan, R., & Wu, M. H. (2016). Profitability of begomovirus management strategies among chilli farmers in Tamil Nadu: A gross margin impact analysis. *Indian Journal of Agricultural Research*, 50(2).
- Tanksley, S.D. 1984. High rates of cross-pollination in chile pepper. *HortScience* 19: 580-582.

- Tadesse, A., & Bekele, Y. (2021). Effects of Spacing on Growth, Yield and Yield Components of Hot Pepper (*Capsicum Annum* L.) Under Irrigated Condition in South Omo Zone. *American Journal of Agricultural Science*, 8(2), 8-13.
- Tewksbury, J. J., & Nabhan, G. P. (2001). Seed dispersal: directed deterrence by capsaicin in chillies. *Nature*, 412, 403-404. doi: 10.1038/35086653
- Tewksbury, J. J., Reagan, K. M., Machnicki, N. J., Carlo, T. A., Haak, D. C., Peñaloza, A. L., & Levey, D. J. (2008). Evolutionary ecology of pungency in wild chilies. *Proceedings of the National Academy of Sciences of the USA*, 105(33), 11808–11811. <https://doi.org/10.1073/pnas.0802691105>
- Than Soe., et al. (2020) "Study on Different Drying Methods of Red Chilli (*Capsicum annum* L.)". *Acta Scientific Nutritional Health*, 4 (4), 62-66. <https://www.actascientific.com/ASNH/pdf/ASNH-04-0670.pdf>
- Tong, N., & Bosland, P. W. (1999). *Capsicum tovarii*, a new member of the *Capsicum baccatum* complex. *Euphytica*, 109(2), 71-77.
- Tran, P.T., Choi, H., Choi, D., & Kim, K.H. (2015). Molecular characterization of Pvr9 that confers a hypersensitive response to Pepper mottle virus (a potyvirus) in *Nicotiana benthamiana*. *Virology*, 481, 113–123. doi:10.1016/j.virol.2015.02.052.
- Tripodi, P., Rabanus-Wallace, M. T., Barchi, L., Kale, S., Esposito, S., Acquadro, A., Schafleitner, R., van Zonneveld, M., Prohens, J., Diez, M. J., Börner, A., Salinier, J., Caromel, B., Bovy, A., Boyaci, F., Pasev, G., Brandt, R., Himmelbach, A., Portis, E., ... Stein, N. (2021). Global range expansion history of pepper (*Capsicum* spp.) revealed by over 10,000 genebank accessions. *Proceedings of the National Academy of Sciences USA*, 118(34), [e2104315118]. <https://doi.org/10.1073/pnas.2104315118>
- Tumbare, A. D. (2004). Effect of planting and fertigation on growth and yield of green chilli (*Capsicum annum*). *Indian Journal of Agricultural Sciences*, 74, 242-245.
- Uarrota, V. G., Maraschin, M., de Bairros, A. D. F. M., & Pedreschi, R. (2021). Factors affecting the capsaicinoid profile of hot peppers and biological activity of their non-pungent analogs (Capsinoids) present in sweet peppers. *Critical Reviews in Food Science and Nutrition*, 61(4), 649-665.
- Ulhoa, A. B., Pereira, T. N., Silva, R. N., Ragassi, C. F., Rodrigues, R., Pereira, M. G., & Reifschneider, F. J. (2014). Molecular characterization of inbred lines of yellow Jalapeño pepper. *Horticultura Brasileira*, 32, 35-40.
- USDA-ARS, NPGS. (2019). GRIN Global Taxonomy, Crop Relatives in GRIN-Global Taxonomy. <https://npgsweb.ars-grin.gov/gringlobal/%20taxon/taxonomysearchwr.aspx>
- Utami, D. & Aryanti, E. (2021). Impact of heat stress on germination and seedling growth of chili pepper (*Capsicum annum* L.). *IOP Conf. Series: Earth and Environmental Science*, 637(1), 012032. doi:10.1088/1755-1315/637/1/012032
- Van Zonneveld, M., Ramirez, M., Williams, D.E., Petz, M., Meckelmann, S., Avila, T., Bejarano, C., Ríos, L., Karla, P., Matthias, M., Dimary, L., Karen, A., & Xavier., S. (2015). Screening Genetic Resources of *Capsicum* Peppers in Their Primary Center of Diversity in Bolivia and Peru. *PLOS ONE*, 10(9), e0134663. <https://doi.org/10.1371/journal.pone.0134663>
- Varma, A., & Malathi, V. G. (2003). Emerging geminivirus problems: a serious threat to crop production. *Annals of Applied Biology*, 142(2), 145-164.
- Ventura, J. C. V., Quiroz, C.M., Lázaro, E.D.L.C., Osorio, R.O., & Rangel, P.P. (2018). Morphological variation of wild peppers (*Capsicum* spp.) from the state of Tabasco,

- Mexico. *Emirates Journal of Food and Agriculture*, 30(2) 115-121. doi: 10.9755/ejfa.2018.v30.i2.1603
- Vierling, E. (1991). The roles of heat shock proteins in plants. *Annual Review of Plant Physiology and Plant Molecular Biology*, 42, 579-620.
<https://doi.org/10.1146/annurev.pp.42.060191.003051>
- Wahyuni, Y., Ballester, A. R., Sudarmonowati, E., Bino, R. J., & Bovy, A. G. (2013). Secondary metabolites of *Capsicum* species and their importance in the human diet. *Journal of natural products*, 76(4), 783-793.
- Walsh, B. M., & Hoot, S. B. (2001). Phylogenetic relationships of *Capsicum* (Solanaceae) using DNA sequences from two noncoding regions: The chloroplast atpB-rbcL spacer region and the nuclear waxy introns. *International Journal of Plant Sciences*, 162, 1409–1418.
<http://dx.doi.org/10.1086/323273>
- Yeam, I., Kang, B.C., Lindeman, W., Frantz, J.D., Faber, N., & Jahn, M.M. (2005). Allele-specific CAPS markers based on point mutations in resistance alleles at the pvr1 locus encoding eIF4E in *Capsicum*. *Theoretical and applied genetics*, 112:178–186.
- Zitter, T.A., & Cook, A.A. (1973) Inheritance of tolerance to a pepper virus in Florida. *Phytopathology*, 63,1211–1212.