

## ΓΕΝΙΚΑ ΘΕΜΑΤΑ

### Αειφόρος και καθετοποιημένη παραγωγή εδώδιμου αχινού

#### Σε υψηλές τιμές πωλείται παγκοσμίως το συγκεκριμένο είδος

##### Βιβλιογραφία

- Pantazis, P., 2009. The culture potential of *Paracentrotus lividus* (Lamarck 1816) in Greece: a preliminary report. *Aquaculture International* 17(6), pp545-552. <https://link.springer.com/article/10.1007/s10499-008-9223-5>
- Pantazis, P.A., Innovation and Business Unit of UTH & Association of Hellenic Industries, 2014. “Production of edible sea urchin in Greece – Investment Plan and Financial Analysis”. A Business Plan developed within the frame of the program “Together at StartUp” (Action Code ΟΠΣ: 372772 & 372773, Notice No 04/2012) of the Innovation and Business Unit of the University of Thessaly (UTH), Volos, Greece.

### Ευεργετικά & απαραίτητα θρεπτικά στοιχεία

#### Για την αντιμετώπιση των σύγχρονων καλλιεργητικών απαιτήσεων

##### Βιβλιογραφία

- Gómez-Merino, F.C., Trejo-Tillez, L.I. (2018). The Role of Beneficial Elements in Triggering Adaptive Responses to Environmental Stressors and Improving Plant Performance. In: Vats, S. (eds) *Biotic and Abiotic Stress Tolerance in Plants*. Springer, Singapore. [https://doi.org/10.1007/978-981-10-9029-5\\_6](https://doi.org/10.1007/978-981-10-9029-5_6)
- Karagiannis E, Michailidis M, Skodra C, Molassiotis A, Tanou G. *Plant Physiol Biochem*. 2021, 166, 270-277. doi: 10.1016/j.plaphy.2021.05.037.
- Lo Piccolo E, Ceccanti E, Guidi I, Landi M. Role of beneficial elements in plants: implications for the photosynthetic process. *Photosynthetica* 59: 349-360, 2021

doi: 10.32615/ps.2021.032

- Pavlovic J, Kostic L, Bosnic P, Kirkby EA, Nikolic M. (2021). Interactions of silicon with essential and beneficial elements in plants. *Front. Plant. Sci.* 12 doi:10.3389/fpls.2021.697592.
- Tanou G, Ziogas V, Molassiotis A. Foliar Nutrition, Biostimulants and Prime-Like Dynamics in Fruit Tree Physiology: New Insights on an Old Topic. *Front Plant Sci*. 2017, 8, 75. doi: 10.3389/fpls.2017.00075.

## ΔΕΝΔΡΟΚΟΜΙΑ

### Μεγάλη η σπουδαιότητα της επικονίασης με μέλισσες και της προστασίας των άγριων επικονιαστών

#### Για βελτίωση αποδόσεων των οπωρώνων κερασιάς

##### Βιβλιογραφία

- Blanco, V., Zoffoli, J. P., & Ayala, M. (2019). High tunnel cultivation of sweet cherry (*Prunus avium* L.): Physiological and production variables. *Scientia Horticulturae*, 251, 108–117. <https://doi.org/10.1016/j.scienta.2019.02.023>.
- Chatziharis, I., & Kazantzis, K. (2014). *Sweet Cherry and its cultivation* (1st ed.). Agrotipos SA.
- Dzedzic, E., Bieniasz, M., & Kowalczyk, B. (2019). Morphological and physiological features of sweet cherry floral organ affecting the potential fruit crop in relation to the rootstock. *Scientia Horticulturae*, 251, 127–135. <https://doi.org/10.1016/j.scienta.2019.03.013>.
- Eeraerts, M., Meeus, I., Van Den Berge, S., & Smagghe, G. (2017). Landscapes with high intensive fruit cultivation reduce wild pollinator services to sweet cherry. *Agriculture, Ecosystems & Environment*, 239, 342–348. <https://doi.org/10.1016/j.agee.2017.01.031>.
- Eeraerts, M., Smagghe, G., & Meeus, I. (2019). Pollinator diversity, floral resources and semi-natural habitat, instead of honey bees and intensive agriculture, enhance pollination service to sweet cherry. *Agriculture, Ecosystems & Environment*, 284, 106586. <https://doi.org/10.1016/j.agee.2019.106586>.

- Eeraerts, M., Smagghe, G., & Meeus, I. (2020). Bumble bee abundance and richness improves honey bee pollination behaviour in sweet cherry. *Basic and Applied Ecology*, 43, 27–33. <https://doi.org/10.1016/j.baae.2019.11.004>.
- Eeraerts, M., Vanderhaegen, R., Smagghe, G., & Meeus, I. (2020). Pollination efficiency and foraging behaviour of honey bees and non-Apis bees to sweet cherry. *Agricultural and Forest Entomology*, 22(1), 75–82. <https://doi.org/10.1111/afe.12363>.
- Ganopoulos, I., Aravanopoulos, F., Madesis, P., Tsaftaris A., Kazantzis K. (2016). The mechanism of self-incompatibility in sweet cherries. *Agriculture Crop & Animal Husbandry Magazine*, 12, 46–51.
- Hedhly, A., Hormaza Urroz, J. I., & Herrero Romero, M. (2007). Warm temperatures at bloom reduce fruit set in sweet cherry. <https://digital.csic.es/handle/10261/4386>.
- Hewitt, S., Kilian, B., Koepke, T., Abarca, J., Whiting, M., & Dhingra, A. (2021). Transcriptome Analysis Reveals Potential Mechanisms for Ethylene-Inducible Pedicel-Fruit Abscission Zone Activation in Non-Climacteric Sweet Cherry (*Prunus avium* L.). *Horticulturae*, 7(9), 270. <https://doi.org/10.3390/horticulturae7090270>.
- Keogh, R., Robinson, A., & Mullins, I. (2010). Pollination Aware—The Real Value of Pollination in Australia, appendix 1, pollination aware case study: Cherry. In Canberra. Rural Industries Research and Development Corporation. <https://www.agrifutures.com.au/wp-content/uploads/publications/10-115.pdf> (accessed on 06 September 2021).
- Lisek, A., Rozpara, E., Głowacka, A., Kucharska, D., & Zawadzka, M. (2015). Identification of S-genotypes of sweet cherry cultivars from Central and Eastern Europe. *Horticultural Science*, 42 (2015)(No. 1), 13–21. <https://doi.org/10.17221/103/2014-HORTSCI>.
- Marnasidis, S., Kazantzis, K., Verikouki, E., Hatjina, F., Arabatzis, G. & Malesios, Ch. (2022). Impact of Insect Pollination on Fruit Set, Fruit Size and Yield of Three Sweet Cherry Cultivars. *International Journal*

- of Environmental & Agriculture Research, 8(3), 59–67. <https://doi.org/10.5281/zenodo.6402241>.
- OSU Extension Service. (2015). Cherry (Prunus spp.)-June Drop [Text]. Pacific Northwest Pest Management Handbooks; OSU Extension Service - Extension and Experiment Station Communications. <https://pnwhandbooks.org/plantdisease/host-disease/cherry-prunus-spp-june-drop> (accessed on 06 September 2021).
  - Papadakis, I., Kanelakis, D., Lionakis, S., Sotiropoulos, T., Therios, I., & Stylianidis, D. (2008). The needs to pollinate stone fruits. Agriculture Crop & Animal Husbandry J, 2, 24–31.
  - Patzak, J., Henychova, A., Papr tein, F., & Sedlak, J. (2019). Molecular S-genotyping of sweet cherry (Prunus avium L.) genetic resources. Horticultural Science, 46 (2019) (No. 3), 146–152. <https://doi.org/10.17221/245/2017-HORTSCI>.
  - Qiu, Z., Wen, Z., Hou, Q., Qiao, G., Yang, K., Hong, Y., & Wen, X. (2021). Cross-talk between transcriptome, phytohormone and HD-ZIP gene family analysis illuminates the molecular mechanism underlying fruitlet abscission in sweet cherry (Prunus avium L). BMC Plant Biology, 21(1), 173. <https://doi.org/10.1186/s12870-021-02940-8>.
  - Radi evi , S., Cerovi , R., Nikoli , D., & or evi , M. (2016). The effect of genotype and temperature on pollen tube growth and fertilization in sweet cherry (Prunus avium L.). Euphytica, 209(1), 121–136. <https://doi.org/10.1007/s10681-016-1645-y>.
  - Reilly, J. R., Artz, D. R., Biddinger, D., Bobiwash, K., Boyle, N. K., Brittain, C., Brokaw, J., Campbell, J. W., Daniels, J., Elle, E., Ellis, J. D., Fleischer, S. J., Gibbs, J., Gillespie, R. L., Gundersen, K. B., Gut, L., Hoffman, G., Joshi, N., Lundin, O., Winfree, R. (2020). Crop production in the USA is frequently limited by a lack of pollinators. Proceedings of the Royal Society B: Biological Sciences, 287(1931), 20200922. <https://doi.org/10.1098/rspb.2020.0922>.
  - Sawicki, M., Aot Barka, E., Climent, C., Vaillant-Gaveau, N., & Jacquard, C. (2015). Cross-talk between environmental stresses and plant metabolism during reproductive organ abscission. Journal of Experimental Botany, 66(7), 1707–1719. <https://doi.org/10.1093/jxb/eru533>.
  - Vignati E., Lipska M., Dunwell JM., Caccamo M, Simkin AJ (2022). Fruit Development in Sweet Cherry. Plants, 11(12):1531. <https://doi.org/10.3390/plants11121531>.
  - Zhang, L., Ferguson, L., & Whiting, M. D. (2018). Temperature effects on pistil viability and fruit set in sweet cherry. Scientia Horticulturae, 241, 8–17. <https://doi.org/10.1016/j.scienta.2018.06.039>.