

- LPS-Activated THP-1 Macrophages. *Antioxidants* 2022; 11(7), 1330. DOI: <https://doi.org/10.3390/antiox11071330>
13. Iftikhar, T., Majeed, H., Zahra, S.S., Waheed, M., Niaz, M., & Bano, N., Thyme. In: Zia-Ul-Haq, M., Abdulkreem AL-Huqail, A., Riaz, M., & Farooq Gohar, U. (eds) *Essentials of Medicinal and Aromatic Crops*. Springer 2023. DOI: https://doi.org/10.1007/978-3-031-35403-8_16
 14. Sarfaraz, D., Rahimmalek, M., & Saeidi, G., Polyphenolic and Molecular Variation in *Thymus* Species Using HPLC and SRAP Analyses. *Scientific Reports* 2021, 11, 5019. DOI: <https://doi.org/10.1038/s41598-021-84449-6>
 15. Tariq, S., Wani, S., Rasool, W., Shafi, K., Bhat, M.A., Prabhakar, A., Shalla, A.H., & Rather, M.A., A Comprehensive Review of the Antibacterial, Antifungal, and Antiviral Potential of Essential Oils and Their Chemical Constituents Against Drug-Resistant Microbial Pathogens. *Microbial Pathogenesis* 2019, 134, 103580. DOI: <https://doi.org/10.1016/j.micpath.2019.103580>
 16. Thosar, N., Basak, S., Bahadure, R.N., & Rajurkar, M., Antimicrobial Efficacy of Five Essential Oils Against Oral Pathogens: An in Vitro Study. *European Journal of Dentistry* 2013, 7, S071–S077. DOI: <https://www.doi.org/10.4103/1305-7456.119078>
 17. Martins, N., Barros, L., Santos-Buelga, C., Silva, S., Henriques, M., & Ferreira, I.C.F.R., Decoction, Infusion, and Hydroalcoholic Extract of Cultivated Thyme: Antioxidant and Antibacterial Activities, and Phenolic Characterization. *Food Chemistry* 2015; 167: 131–137. DOI: <https://www.doi.org/10.1016/j.foodchem.2014.06.049>
 18. Baharfar, R., Azimi, R., & Mohseni, M., Antioxidant and Antibacterial Activity of Flavonoid-, Polyphenol-, and Anthocyanin-Rich Extracts from *Thymus kotschyanus* Boiss & Hohen Aerial Parts. *Journal of Food Science and Technology* 2015, 52, 6777–6783. DOI: <https://doi.org/10.1007/s13197-015-1752-0>
 19. Amirdovlat Amasiatsi. *Unnecessary for the Ignorant*. Translated and with an Introduction and Commentary by S. A. Vartanyan, Hayka, 1990.
 20. Vassiliou, E., Awoleye, O., Davis, A., & Mishra, S., Anti-Inflammatory and Antimicrobial Properties of Thyme Oil and Its Main Constituents. *International Journal of Molecular Sciences* 2023, 24(8), 6936. DOI: <https://doi.org/10.3390/ijms24086936>
 21. Altındal, D., Deveci, K.C., Öner Talmaç, A.G., Talmaç, A.C., & Çalçır, M., Effects of Thyme on Halitosis in Gingivitis Patients: Can Thyme Mouthwash Prevent Halitosis—A Randomized Trial. *International Journal of Dental Hygiene* 2023; 21(2), 426-432. DOI: <https://www.doi.org/10.1111/idh>
 22. Wadhawan, R., Singla, P., Mishra, S., Mansuri, S., Kumar, S., Raj, N., & Dev, L.M., Role of Wonder Drug Thyme in Dentistry: A Review. *Journal of Orofacial and Health Sciences* 2024; 11(2), 43–46. DOI: <https://doi.org/10.18231/j.ijohs.2024.011>
 23. Khbrani, A.H., et al., Study on Health Impacts in Community Settings. *International Journal of Community Medicine and Public Health* 2023 Jan; 10(1), 402-407. DOI: <https://dx.doi.org/10.18203/2394-6040.ijcmph20223322>
 24. Mrkonjić, Ž., Kaplan, M., Milošević, S., Božović, D., Sknepnek, A., Miletić, D., Lazarević Mrkonjić, I., Rakić, D., Zeković, Z., Pavlič, B., Green Extraction Approach for Isolation of Bioactive Compounds in Wild Thyme (*Thymus serpyllum* L.) Herbal Dust—Chemical Profile, Antioxidant and Antimicrobial Activity and Comparison with Conventional Techniques. *Plants* 2024; 13(6), 897. DOI: <https://doi.org/10.3390/plants13060897>
 25. Nutrizio, M., Pataro, G., Carullo, D., Carpentieri, S., Mazza, L., Ferrari, G., Chemat, F., Banović, M., Režek Jambrak, A., High Voltage Electrical Discharges as an Alternative Extraction Process of Phenolic and Volatile Compounds from Wild Thyme (*Thymus serpyllum* L.): In Silico and Experimental Approaches for Solubility Assessment. *Molecules* 2020; 25(18), 4131. DOI: <https://doi.org/10.3390/molecules25184131>
 26. Martirosyan, D., Miller, E., Bioactive Compounds: The Key to Functional Foods. *Bioactive Compounds in Health and Disease* 2018; 1(3), 36-39. DOI: <https://doi.org/10.31989/bchd.v1i3.539>
 27. Gooch, K., Martirosyan, D., Where Tradition Meets Science: Microbial Diversity and Bioactive Compounds in Armenian Fermented Milk Products. *Bioactive Molecules and Pharmaceuticals* 2022; 1(9), 1-17. DOI: <https://doi.org/10.31989/bmp.v1i9.1006>
 28. Martirosyan, D., Kanya, H., Nadalet, C., Can Functional Foods Reduce the Risk of Disease? Advancement of Functional Food Definition and Steps to Create Functional Food Products. *Functional Foods in Health and Disease* 2021; 11(5), 213-221. DOI: <https://doi.org/10.31989/ffhd.v11i5.788>
 29. Danik M. Martirosyan and Jaishree Singh, Functional Foods in Health and Disease. *Functional Foods in Health and Disease* 2015; 5(6), 209-223. DOI: <https://doi.org/10.31989/ffhd.v5i6.183>

30. Martirosyan, D.M., The Emerging Potential of Functional Foods in Viral Disease Prevention. *Functional Foods in Health and Disease* 2020; 6(10), 95-99.
DOI: <https://doi.org/10.31989/ffhd.v6i10.726>
31. Martirosyan, D. M., Stratton S. Quantum and tempus theories of function food science in practice. *Functional Food Science* 2023; 3(5): 55-62.
DOI: <https://www.doi.org/10.31989/ffs.v3i5.1122>
32. Williams, K., Oo, T., Martirosyan, D. M., Exploring the effectiveness of lactobacillus probiotics in weight management: A literature review. *Functional Food Science* 2023; 3(5): 42-54.
DOI: <https://www.doi.org/10.31989/ffs.v3i5.1115>
33. Martirosyan D.M., Lampert T., Lee M. A comprehensive review on the role of food bioactive compounds in functional food science. *Functional Food Science* 2022; 3(2): 64-79. DOI: <https://www.doi.org/10.31989/ffs.v2i3.906>
34. Etri, K., & Pluhár, Z., Exploring Chemical Variability in the Essential Oils of the *Thymus* Genus. *Plants* 2024; 13(10), 1375. DOI: <https://doi.org/10.3390/plants13101375>
35. Goyal, S., Pathak, R., Pandey, H.K., Comparative Study of the Volatile Constituents of *Thymus serpyllum* L. Grown at Different Altitudes of Western Himalayas. *SN Applied Sciences* 2022; 2, 1208. DOI: <https://doi.org/10.1007/s42452-020-2938-2>
36. Hosseini, N., Ghorbanpour, M., Mostafavi, H., The Influence of Climate Change on the Future Distribution of Two *Thymus* Species in Iran: MaxEnt Model-Based Prediction. *BMC Plant Biology* 2024 Apr 11; 24(1), 269. PMID: 38605338; PMCID: PMC11007882
DOI: <https://doi.org/10.1186/s12870-024-04965-1>
37. Mehalaine, S., Chenchouni, H., Quantifying How Climatic Factors Influence Essential Oil Yield in Wild-Growing Plants. *Arabian Journal of Geosciences* 2021; 14, 1257.
DOI: <https://doi.org/10.1007/s12517-021-07582-6>
38. Vaičiulytė, V., Ložienė, K., Taraškevičius, R., Impact of Edaphic and Climatic Factors on *Thymus pulegioides* Essential Oil Composition and Potential Prevalence of Chemotypes. *Plants* 2022; 11(19), 2536.
DOI: <https://doi.org/10.3390/plants11192536>
39. Najah, Z., & Elsharif, K., Analytical and Phytochemical Studies on *Zizyphus lotus*. *European Journal of Biomedical and Pharmaceutical Sciences* 2016; 3(7), 574-577
40. Najah, M., Elsharif, K., Kawan, E., & Fara, N., Phytochemical Screening and Heavy Metals Contents of *Nicotiana glauca* Plant. *International Journal of Pharmacy and Pharmaceutical Research* 2015; 4(3), 82-91
41. Martins, G.R., Monteiro, A.F., do Amaral, F.R.L., da Silva, A.S., A Validated Folin-Ciocalteu Method for Total Phenolics Quantification of Condensed Tannin-Rich Açai (*Euterpe oleracea* Mart.) Seeds Extract. *Journal of Food Science and Technology* 2021; 58(12), 4693-4702.
DOI: <https://doi.org/10.1007/s13197-020-04959-5>
42. Elbagermi, M.A., Antisar, A.B., Elsharif, K.M., Evaluation of Essential and Heavy Metal Levels in Pasteurized and Fall Armyworm (*Spodoptera frugiperda*) on Baby Corn (*Zea mays*). *Acta Chimica Malaysiana* 2020; 4(2), 66-71
43. Idris, O.A., Wintola, O.A., Afolayan, A.J., Comparison of the Proximate Composition, Vitamins (Ascorbic Acid, α -Tocopherol, and Retinol), Anti-Nutrients (Phytate and Oxalate) and the GC-MS Analysis of the Essential Oil of the Root and Leaf of *Rumex crispus* L. *Plants* 2019; 8(3), 51.
DOI: <https://doi.org/10.3390/plants8030051>
44. Dauqan, E.M., Abdullah, A., Medicinal and Functional Values of Thyme (*Thymus vulgaris* L.) Herb. *Journal of Applied Biology and Biotechnology* 2017; 5(2), 0-2.
DOI: <https://doi.org/10.7324/JABB.2017.50203>
45. Weeks, B.S., Fu, R., Zaidi, M., Vitamin C Promotes Wound Healing: The Use of In Vitro Scratch Assays to Assess Re-Epithelialization. *Cell Physiology* 2023.
DOI: <https://doi.org/10.5772/intechopen.111517>
46. Pacier, C., Martirosyan, D.M., Vitamin C: Optimal Dosages, Supplementation, and Use in Disease Prevention. *Functional Foods in Health and Disease* 2015; 5(3), 89-107.
DOI: <https://doi.org/10.31989/ffhd.v5i3.174>
47. Ghahremani-Nasab, M., Del Bakhshayesh, A.R., Akbari-Gharalari, N., et al., Biomolecular and Cellular Effects in Skin Wound Healing: The Association Between Ascorbic Acid and Hypoxia-Induced Factor. *Journal of Biological Engineering* 2023; 17, 62.
DOI: <https://doi.org/10.1186/s13036-023-00380-6>
48. Niu, Y., Zhang, Q., Wang, J., Li, Y., Wang, X., Bao, Y., Vitamin E Synthesis and Response in Plants. *Frontiers in Plant Science* 2022; 13:994058.
DOI: <https://doi.org/10.3389/fpls.2022.994058>
49. Muthulakshmi, M.V., Srinivasan, A., Srivastava, S., Antioxidant Green Factories: Toward Sustainable Production of Vitamin E in Plant In Vitro Cultures. *ACS Omega* 2023; 8(4), 3586-3605. DOI: <https://doi.org/10.1021/acsomega.2c05819>
50. Cosme, P., Rodríguez, A.B., Espino, J., Garrido, M., Plant Phenolics: Bioavailability as a Key Determinant of Their Potential Health-Promoting Applications. *Antioxidants* 2020; 9(12), 1263. DOI: <https://doi.org/10.3390/antiox9121263>

51. Zeb, A., Applications of Phenolic Antioxidants. In: *Phenolic Antioxidants in Foods: Chemistry, Biochemistry, and Analysis*. Springer, Cham, 2021, 385-411.
DOI: https://doi.org/10.1007/978-3-030-74768-8_13
52. Shahar, B., Indira, A., Santosh, O., Dolma, N., Chongtham, N., Nutritional Composition, Antioxidant Activity, and Characterization of Bioactive Compounds from *Thymus serpyllum* L.: An Underexploited Wild Aromatic Plant. 2023.
DOI: <http://dx.doi.org/10.2139/ssrn.4369359>
53. Thor, K., Calcium—Nutrient and Messenger. *Frontiers in Plant Science* 2019; 10:440.
DOI: <https://doi.org/10.3389/fpls.2019.00440>
54. Meng, X., Bai, S., Wang, S., Pan, Y., Chen, K., Xie, K., Wang, M., Guo, S., The Sensitivity of Photosynthesis to Magnesium Deficiency Differs Between Rice (*Oryza sativa* L.) and Cucumber (*Cucumis sativus* L.). *Frontiers in Plant Science* 2023; 14, 116486.
55. Maathuis, F.J.M., Sodium in Plants: Perception, Signalling, and Regulation of Sodium Fluxes. *Journal of Experimental Botany* 2014; 65(3), 849–858.
DOI: <https://doi.org/10.1093/jxb/ert326>
56. Rawat, J., Pandey, N., Saxena, J., Role of Potassium in Plant Photosynthesis, Transport, Growth, and Yield. In: Iqbal, N., Umar, S. (eds), *Role of Potassium in Abiotic Stress*. Springer, Singapore, 2022.
DOI: https://doi.org/10.1007/978-981-16-4461-0_1
57. Prathap, V., Kumar, A., Maheshwari, C., et al., Phosphorus Homeostasis: Acquisition, Sensing, and Long-Distance Signaling in Plants. *Molecular Biology Reports* 2022; 49, 8071–8086.
DOI: <https://doi.org/10.1007/s11033-022-07354-9>
58. Pang, F., Li, Q., Solanki, M.K., Wang, Z., Xing, Y.-X., Dong, D.-F., Soil Phosphorus Transformation and Plant Uptake Driven by Phosphate-Solubilizing Microorganisms. *Frontiers in Microbiology* 2024; 15, 1383813.
DOI: <https://doi.org/10.3389/fmicb.2024.1383813>
59. Li, J., Cao, X., Jia, X., Liu, L., Cao, H., Qin, W., Li, M., Iron Deficiency Leads to Chlorosis Through Impacting Chlorophyll Synthesis and Nitrogen Metabolism in *Areca catechu* L. *Frontiers in Plant Science* 2021; 12.
DOI: <https://doi.org/10.3389/fpls.2021.710093>
60. Mir, A.R., Pichtel, J., Hayat, S., Copper: Uptake, Toxicity, and Tolerance in Plants and Management of Cu-Contaminated Soil. *Biometals* 2021; 34, 737–759.
DOI: <https://doi.org/10.1007/s10534-021-00306-z>
61. Ahmed, N., Zhang, B., Chachar, Z., Li, J., Xiao, G., Wang, Q., Hayat, F., Deng, L., Narejo, M.-u.-N., Bozdar, B., Tu, P.,

Micronutrients and Their Effects on Horticultural Crop Quality, Productivity, and Sustainability. *Scientia Horticulturae* 2024; 323.

DOI: <https://doi.org/10.1016/j.scienta.2023.112512>