

- Chen L., Ding H.Y., Chen X., Wang J.J., Hu Y., Chen H.P., and Liu Y.P., 2023, Cultivation modes impacting root microbiomes and metabolites in medicinal orchid *Dendrobium denneanum*, *Frontiers in Microbiomes*, 2: 1287336.
<https://doi.org/10.3389/fmibi.2023.1287336>
- Chen Q.Q., Zhang C.Y., Chen Y.K., Wang C.Q., and Lai Z.X., 2024, Transcriptomic analysis for diurnal temperature differences reveals gene-regulation-network response to accumulation of bioactive ingredients of protocorm-like bodies in *Dendrobium officinale*, *Plants*, 13(6): 874.
<https://doi.org/10.3390/plants13060874>
- Chen W.H., Lu J.M., Zhang J.H., Wu J.J., Yu L.L., Qin L.P., and Zhu B., 2021, Traditional uses, phytochemistry, pharmacology, and quality control of *Dendrobium officinale* Kimura et Migo, *Frontiers in Pharmacology*, 12: 726528.
<https://doi.org/10.3389/fphar.2021.726528>
- Cheng J., Dang P.P., Zhao Z., Yuan L.C., Zhou Z., Wolf D., and Luo Y.B., 2019, An assessment of the Chinese medicinal *Dendrobium* industry: supply, demand and sustainability, *Journal of Ethnopharmacology*, 229: 81-88.
<https://doi.org/10.1016/j.jep.2018.09.001>
- Fussy A., and Papenbrock J., 2022, An overview of soil and soilless cultivation techniques-chances, challenges and the neglected question of sustainability, *Plants*, 11(9): 1153.
<https://doi.org/10.3390/plants11091153>
- Gao H., Xu D., Zhang H., Cheng X., and Yang Q., 2020, Effects of culture medium composition and PEG on hyperhydricity in *Dendrobium officinale*, *In Vitro Cellular & Developmental Biology-Plant*, 56(2): 143-149.
<https://doi.org/10.1007/s11627-020-10075-y>
- Gohardoust M.R., Bar-Tal A., Effati M., and Tuller M., 2020, Characterization of physicochemical and hydraulic properties of organic and mineral soilless culture substrates and mixtures, *Agronomy*, 10(9): 1403.
<https://doi.org/10.3390/agronomy10091403>
- Gruda N.S., 2019, Increasing sustainability of growing media constituents and stand-alone substrates in soilless culture systems, *Agronomy*, 9(6): 298.
<https://doi.org/10.3390/agronomy9060298>
- Guan S.H., Jin G.Q., Zhang X.Y., Liu A., Yan Y., Chai S., Chen S., Tang D., Li S., Tian J., Zhan Z., Gu H., and Li Q., 2025, Comparative proteomics and metabolomics unveil regional variations in *Dendrobium officinale*, *Journal of Pharmaceutical and Biomedical Analysis*, 266: 117087.
<https://doi.org/10.1016/j.jpba.2025.117087>
- Guo Y., Ma J.X., Zheng Y.H., Zhang H., Yu Y., and Zhang J., 2026, A bio-based composite hydrogel substrate for indoor soilless dandelion cultivation: growth performance and polysaccharide accumulation, *Gels*, 12(3): 235.
<https://doi.org/10.3390/gels12030235>
- He Q.Q., Lu A.L., Qin L., Zhang Q.N., Lu Y., Yang Z., Tan D., and He Y., 2022, An UPLC-Q-TOF/MS-based analysis of the differential composition of *Dendrobium officinale* in different regions, *Journal of Analytical Methods in Chemistry*, 2022: 8026410.
<https://doi.org/10.1155/2022/8026410>
- Hou Y.Y., Du G.Y., Li J., Liu P., and Zhang J.Q., 2025, Multidimensional evaluation of quality differences for *Dendrobium officinale* stems grown under different cultivation environments based on widely targeted metabolomics, network pharmacology, molecular docking, and cell experiments, *Frontiers in Plant Science*, 16: 1501545.
<https://doi.org/10.3389/fpls.2025.1501545>
- Jia X.X., Ma P.H., Wei C.I., and Wang Q., 2024, Chitin and chitosan: pioneering sustainable substrates for next-generation soilless vertical farming, *Trends in Food Science & Technology*, 148: 104599.
<https://doi.org/10.1016/j.tifs.2024.104599>
- Kumari P., Deepa N., Trivedi P.K., Singh B., Srivastava V., and Singh A., 2023, Plants and endophytes interaction: a “secret wedlock” for sustainable biosynthesis of pharmaceutically important secondary metabolites, *Microbial Cell Factories*, 22(1): 196.
<https://doi.org/10.1186/s12934-023-02234-8>
- Laffon M., Domont J., Hano C., Lanoue A., and Giglioli-Guivarc’h N., 2024, Unlocking specialized metabolism in medicinal plant biotechnology through plant-microbiome interactions, *Current Opinion in Plant Biology*, 82: 102620.
<https://doi.org/10.1016/j.cpb.2024.102620>
- Lan Q.Q., Liu C.X., Wu Z.H., Ni C., Li J.Y., Huang C., Wang H., and Wei G., 2022, Does the metabolome of wild-like *Dendrobium officinale* of different origins have regional differences?, *Molecules*, 27(20): 7024.
<https://doi.org/10.3390/molecules27207024>
- Li Y., He S.C., Wang Q., Liu H., and Zhou X., 2025, Dynamic optimization system for *Dendrobium officinale* cultivation based on IoT edge computing and hybrid digital twin, *Proceedings of the 2025 5th International Conference on Consumer Electronics and Computer Engineering*, 346-351.
<https://doi.org/10.1109/ICCECE65250.2025.10984862>
- Ling N., Wang T., and Kuzakov Y., 2022, Rhizosphere bacteriome structure and functions, *Nature Communications*, 13(1): 836.
<https://doi.org/10.1038/s41467-022-28448-9>
- Liu J.J., Yu Q.X., Chen D.H., Wu L.S., and Si J., 2025, Research progress in key technologies for the development of *Dendrobium officinale*: From a rare and endangered species to a 10-billion-RMB-level industry, *China Journal of Chinese Materia Medica*, 50(13): 3670-3678.
<https://doi.org/10.19540/j.cnki.cjcm.20250508.103>