INDIA'S ORGANIC AGRICULTURE FOR LONG-TERM DEVELOPMENT: A REVIEW

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ABSTRACT

Organic farming, formerly seen as a fringe movement of questionable reputation, grew from humble beginnings to acquire recognition and expand across the globe, with annual sales of about US$40 billion. One of the current arguments in this area is whether organic farming is just a status symbol or if it is really healthier for us. Failures of the green revolution, dwindling biodiversity and agricultural yields, worsening human and environmental health, and other factors have prompted us to reconsider agriculture in general, and sustainable agriculture in particular. In Kerala, for example, farmers, environmentalists, and policymakers took the unusual step of adopting a legislation requiring all growers in the state to cultivate organically by 2020. The example of Kerala demonstrates that, when done correctly, this kind of agriculture can benefit everyone in our global food system. With reference to India, the purpose of this article is to offer a range of views on the nature and significance of organic farming, as well as to explain the pattern of development of the organic food system. The article does a good job of addressing some of the problems as well as some of the uncertainty regarding its future growth.

KEYWORDS: *Organic Agriculture, Organic Farming, Organic Food, Sustainable Development.*

REFERENCES

1. Rahmann G, Ardakani MR, Bàrberi P, Boehm H, Canali S, Chander M, et al. Organic Agriculture 3.0 is innovation with research. Organic Agriculture. 2017.

2. Sharma P, Berwal YS, Ghai W. Krishimitr: A cloud computing and platform for disease detection in agriculture. Int J Innov Technol Explor Eng. 2019;

3. Freddy HJ. Food security bill 2013 of India - a retrospective analysis. Futur Food J Food, Agric Soc. 2013;

4. Manjit K, Abhishek M. Plant growth promoting rhizobacteria (PGPR) for enhancing sustainable agriculture and revolutionized tools for farmers. Res J Biotechnol. 2021;

5. Jain N, Awasthi Y. WSN-AI based Cloud computing architectures for energy efficient climate smart agriculture with big data analysis. Int J Adv Trends Comput Sci Eng. 2019;

6. Hole DG, Perkins AJ, Wilson JD, Alexander IH, Grice P V., Evans AD. Does organic farming benefit biodiversity? Biol Conserv. 2005;

7. S G. Food Safety and Organic Farming. MOJ Food Process Technol. 2017;

8. Kumar S, Shamim M, Bansal M, Gangwar B, Aggarwal RP. Computational modeling and emerging trend in agriculture. In: 2015 International Conference on Computing for Sustainable Global Development, INDIACom 2015. 2015.

9. Carvalho FP. Pesticides, environment, and food safety. Food and Energy Security. 2017.

10. Kaur V, Oberoi A. Novel Approach for Plant Disease Detection Based on Textural Feature Analysis. In: Advances in Intelligent Systems and Computing. 2020.

11. Sharma P, Berwal YPS, Ghai W. Enhancement of plant disease detection framework using cloud computing and gpu computing. Int J Eng Adv Technol. 2019;

12. Sharma P, Berwal YPS, Ghai W. KrishiMitr (Farmer's friend): Using machine learning to identify diseases in plants. In: Proceedings - 2018 IEEE International Conference on Internet of Things and Intelligence System, IOTAIS 2018. 2019.

13. Wani PA, Rafi N, Wani U, Bilikis A H, Khan MSA. Simultaneous bioremediation of heavy metals and biodegradation of hydrocarbons by metal resistant Brevibacillus parabrevis OZF5 improves plant growth promotion. Bioremediation Journal. 2021.

14. Mandal UK, Singh G, Victor US, Sharma KL. Green manuring: Its effect on soil properties and crop growth under rice - Wheat cropping system. Eur J Agron. 2003;

15. Sharma P, Berwal YPS, Ghai W. Performance analysis of deep learning CNN models for disease detection in plants using image segmentation. Inf Process Agric. 2020;

16. Khatri M, Kumar A. Stability Inspection of Isolated Hydro Power Plant with Cuttlefish Algorithm. In: 2020 International Conference on Decision Aid Sciences and Application, DASA 2020. 2020.

17. Prakash P, Radha, Kumar M, Pundir A, Puri S, Prakash S, et al. Documentation of commonly used ethnoveterinary medicines from wild plants of the high mountains in shimla district, himachal pradesh, india. Horticulturae. 2021;

18. Sanwal R, Chaudhary AK. Wound healing and antimicrobial potential of Carissa spinarum Linn. in albino mice. J Ethnopharmacol. 2011;

19. Hammas MA, Ahlem Z. Organic Farming: A Path of Sustainable Development. Int J Econ Manag Sci. 2017;

20. Usama M, Siddiqui MJA. Organic Farming – An Approach to Sustainable Development. Int Adv Res J Sci Eng Technol. 2016;

21. Santhoshkumar M. A Review on Organic Farming - Sustainable Agriculture Development. Int J Pure Appl Biosci. 2017;

22. Singh SP, Pundhir A, Ghosh S. Validation of an analytical methodology for determination of tetracyclines residues in honey by UPLC-MS/MS detection. Indian J Nat Prod Resour. 2015;

23. Vanaja T. Saline Prone Rice Ecosystem of Kerala, India. Am J Environ Prot. 2013;