

TABLE OF CONTENTS

Volume 2, Issue 7 (October, 2024)

Sl. No.	Article ID	Table of Contents	Page No.
1	240207001	Whispers in the Wind: The Impact of Chemical Communication on Insect Behavior and Pest Management Vidya Madhuri E., Rupali J. S., Rajna S. and Rittik Sarkar	1
2	240207002	The Impact of Artificial Intelligence in Agriculture Ankita Singh, Tarun Kumar Maheshwari, Deepali Mudgal and N. K. Sharma	5
3	240207003	Initiatives for Regenerative Agriculture and Income Creation Pratishruti Behera	7
4	240207004	Water Hyacinth Pratishruti Behera	11
5	240207005	Climate Change and Crop Diversification Pratibha Pandey, Seema Kwatra and Sangya Singh	15
6	240207006	Empowering the Backbone of Uttarakhand's Agriculture: Transforming Women Farmers Through Skills, Security, and Leadership Sangya Singh, Seema Kwatra and Pratibha Pandey	17
7	240207007	Bioengineering Microbiomes: Utilizing the Potential of Microbes for a Sustainable Future Akanksha S. Tripathi	20
8	240207008	Retention of Placenta (RoP) in Animals Deepak Kumar Chaurasia	22
9	240207009	Small Millets: An Overview, Status, Health Benefits and Future Scope D. B. Prajapati	24
10	240207010	The Role of Digital Agriculture in Enhancing Agri-Food Systems and Nutritional Security Muneshwar Prasad Mandal and Kiran	27
11	240207011	Understanding <i>Candida auris</i>: A Snapshot of a Global Concern Reddi Lokeswari, Dumala Naveen and Santanu Pal	29
12	240207012	Importance of doubled haploids technology in plant breeding Jagmeet Singh, Sandeep Kumar, Chander Parkash & Dharminder Kumar	32
13	240207013	Teacher Student Relationship Quality Impact on Behavior Problems, Academic Competence and Intervention P. Yamini and Manjula Patil	35
14	240207014	Unveiling Male Reproductive Toxicity in Rats: A Look at Biochemical Markers, Oxidative Stress, Sperm Quality, and Histopathology Ananthu Vijayakrishnan, Ranjith D, Deepanjaly S, Vaishanavi Jagadeesh M, Aruna B and Sanis Juliet	37
15	240207015	Role of Fish Nutrition in Aquaculture Production Nithin J. S., Vijayakumar S, Monisha Y. H and Shivani D. Gowda	39

16	240207016	Exploring The Dynamics of Auxin: Biosynthesis and Function M. Madhumitha, V. Sundaram and M. Karthikeyan	42
17	240207017	Role of Soil and Water Management in Mustard Crop Yield Gazala Nazir, Prabhsimran Singh, Marifa Gulzar, Shugufta Parveen and Sajad Un Nabi	44
18	240207018	The Role and Growth of <i>Bacillus thuringiensis</i> as a Biopesticide: Applications, Mechanisms and Adoption in India Ragasruthi Malaravan, Srinivasan G, Janani Mani and Aswathi Narayanadas	47
19	240207019	The Benefits of Triphala in Aquaculture: A Sustainable Approach to Aquatic Health and Productivity Ravi , Tejpal Dahiya, Ruksar and Abhimanyu	50
20	240207020	Role of Sustainable Development Goals in Environment protection Subhashini kaparapu, Dr. Anjali Juyal and Dr. Hemu Rathore	54
21	240207021	The Scoop on Poop: Insects' Evolutionary Hacks for Hygiene Rupali J. S., Vidya Madhuri E., Rajna S. and Hemant Kumar	57
22	240207022	Seed Treatment- Protection Against Diseases and Insects in Early Stages of Crop P. Nagamani	60
23	240207023	Urban Forest: Cultivating Greener and Healthier Urban Landscapes Radhika Sharma, Pranjal and Jagmohan Singh	62
24	240207024	Strategies to Improve Herd Fertility and Conception Rate in Bovines Deepti Arya, Chirag Pruthi and Vishvas Gohil	65
25	240207025	Importance of Root System Architectural Traits Under Drought in Sorghum Karthik R. and Gaganashree K. P.	68
26	240207026	Xeriscaping: Water-Wise Landscaping Sangeetha Priya S., Vittal Kamble and Poojitha S. R.	71
27	240207027	Extracellular Vesicles - A Shuttle Facilitating Dialogue Between Plants and Microbes in Micro Environment Sreegayathri Elango and Maddi Sandhya	74
28	240207028	The Future of Pesticides: Moving Towards Biopesticides D. K. Narwade, S. S. Patil, A. P. Tupe, P. R. More and M. Pushpapalatha	78
29	240207029	Success Story: Impact of Subsoiling on Mixed Cropping of Tur and Soybean Priyanka Khole	82
30	240207030	Methane Emissions from the Rice Cropping System Vasanth P.	84
31	240207031	Water Resource Management in India: Challenges and Solutions Sreeju K. B.	87
32	240207032	Beyond the Naked Eye: Microplastics Wavhal Nilam ¹ , Simranpreet Kaur ² and Nitin Wakchaure ³	90

33	240207033	Social Media Usage Among Adolescents: Impact on Mental Health and Intervention P. Yamini ¹ and Lata Pujar ²	93
34	240207034	A Review on Vegan Leather: Innovations, Challenges, and Future Prospects Reenawanti ¹ , Nisha Arya ² , Sanju ³ and Ritika ⁴	95
35	240207035	Bioengineering Microbiomes: Utilizing the Potential of Microbes for a Sustainable Future Akanksha S. Tripathi	35
36	240207036	Current Status and Challenges on Floriculture in India Akash E. and Thirumal S.	100
37	240207037	Nanoencapsulation: A Game-Changer in Functional Food Development and Delivery Systems Lakshmipriya P. R. ^{*1} Chandhni P. R. ² and Malavika Manoj ³	102
38	240207038	Farmers Have Another Money, “Green Money” *Kaushlendra Srivastava, Kuldeep Maurya, and Ashwani Kumar Verma	104
39	240207039	Insect Meal: Blooming As Sustainable Alternative Animal Feed Prital Bhujbal ¹ , Shiwani Singh ² , N R Karambele ³ and S. D. Jagadale ³	108
40	240207040	High-Flying Solutions- Revolutionizing Crop Protection with Drones Janani Mani ^{*1} , Ragasruthi Malaravan ² , Mohanapriya Senniyappan ³ , Priyadharshini Murugesan ⁴ and Anbuselvan Anthonisamy ⁵	111
41	240207041	Moth Bean: The Resilient Orphan Legume Promoting Sustainability in Arid Regions Priyanka Gautam ^{1*} , B. Lal ² , R.K. Sawal ¹ , S. Rakshit ¹ and V.K. Yadav	115
42	240207042	Real Time Monitoring: An Advanced Technology for Agriculture Aayushee Thakur [*] , Anupama Singh, Anchal Tandon, Shaurya Jasrotia	119
43	240207043	Escalating Resistance of Pink Bollworm in Bt Cotton Across Northern India and Its Strategic Management Raj Kumar ¹ , Anjali Rana ² , Pooja Yadav ¹ and Sumit Mehla ¹	122
44	240207044	Applications of AI in Agriculture Hanna Sunkara [*] and Divya Reddy Regatipally	125
45	240207045	Agriculture Potential Crops Under Red-Laterite Zone of Jhargram District of West Bengal: A Case Analysis Dhiman Mukherjee	129
46	240207046	Intellectual Property Right: Its Important and Benefits Praveen Kumar	132
47	240207047	ITK Practices in Pest Management V. Santhosh	135
48	240207048	Enhancement of Farm Income Through Crop Diversification in Chandel District of Manipur Kangjam Sonamani Singh	138
49	240207049	The Benefits of Rosemary in Aquaculture: A Comprehensive Overview Ruksar ^{1*} , Tejpal Dahiya ¹ , Ravi ¹ , Abhimanyu ¹ and Tannu Goyal ²	141

50	240207050	Leveraging Natural Plant Defense Mechanisms to Enhance Food Preservation Techniques Divyashree ^{1*} , G. Punith ² , Shivanand Koti ³ K. K. Chetan ⁴ and Basavaraj ³ A.	145
51	240207051	Dots of Machine Learning and Applications Annapurna Neeralgi ¹ and B. Fakrudin ²	147
52	240207052	Dynamics of Wheat Production in India Current Research Status and Future Challenges Priti ¹ , Poonam Bansal ² , Aakriti Thakur ³ , Charu Lata ³ , Anshul Sharma Manjul ³ and OP Gangwar ³	151
53	240207053	Eco-Friendly Fishing Gear: Reducing Bycatch and Preserving Marine Ecosystems Inab M. Bala [*] , Tasaduq H. Shah and Tabish Farooq	156
54	240207054	Neemcake An Eco-Friendly Input for Sustainable Agriculture Renuka Biradar, Vanishree S. and Arvind Rathod	160
55	240207055	Organic Farming: An Approach Towards Sustainable Agriculture ¹ Neeraj, ² Manish Tomar and ³ Sudesh	162
56	240207056	Newly Released High Yielding Millet Varieties of Tamil Nadu Agricultural University A. Sheeba, Chelvi Ramesh, B. Venudevan, S. Krishnakumar and J. Kannan	164
57	240207057	Exploring Alternative Fuel & Energy Systems for Fishing Vessels: Strategies for Achieving Sustainability and Enhancing Efficiency Pallavi S. Salgaonkar and Shravan Kumar Sharma	167
58	240207058	Rose Essential Oil: Great Demand in The Aromatic and Cosmetic Industry Saraswati ^{*1} , Namita ² and M. K. Singh ³	171
59	240207059	Speed Breeding and Its Applications in Crop Improvement Chintha Suvarna and S. N. D. Praveen Kumar	173
60	240207060	Termite Tales: Unravelling the Secrets of Their Social Life and Reproductive Behaviour Vidya Madhuri E*, Rupali J S, Rajna S and Sweta Verma	177
61	240207061	Advances in Genetic Strategies for Reducing Phytic Acid Content in Maize: From Traditional Mutants to CRISPR/Cas9 Innovations Gullnaj Khatoon ¹ , Shambhu Krishan Lal ^{1*} , Sudhir Kumar ¹ , Sahil Mehta ² and Madan Kumar ¹	180
62	240207062	Waste To Wealth: An Approach to Fabricate Blessings from Waste Mini and Manju Dahiya	184
63	240207063	Ancient Sanskrit Literature relating to Agriculture Basavaraj	186
64	240207064	Yoga and Agriculture Basavaraj	189