

NEW ERA AGRICULTURE MAGAZINE

VOLUME 03, ISSUE 05, OCTOBER - 2024

CONTENTS

S. NO.	TITLES & AUTHORS	PAGE NO.
1	CRISPR-Cas9: A Game Changer in Crop Improvement Venkata Yaswanth Amara	1-5
2	Molecular Breeding for Enhancing Crop Resilience to Climate Change Dr. Sujata Bhavusaheb Pawar, Mahesh D Patil and Santanu Nandi	6-11
3	Breeding for Disease Resistance through Molecular Approaches Santanu Nandi and Aishani Basak	12-17
4	The Significance and Techniques of Organic Vegetable Production Hradesh Shivhare, C.N. Ram, Aastik Jha, Anil Kumar, DK Upadhyay and Lokesh Yadav	18-21
5	Indian Railways – A Monopoly Gali Krishna Chaithanya and Bhagya Laxmi Sahu	22-25
6	The Role of Genomic Selection in Improving Drought and Heat Tolerance in Crops Abhilasha Pralhadrao Kharkar, Mr. Rushabh Bhimrao Jadhao, Swapnil A Mane and Sagar Vasantrao Chaukaskar	26-30
7	Functional Genomics in Crop Breeding: Prospects and Challenges' Dr. Sujata Bhavusaheb Pawar, Vishal R Bhakad and Mahesh D Patil	31-37
8	The Role of Agrometeorology in Crop Production: Enhancing Agricultural Productivity and Sustainability Basharat Bashir	38-43
9	The Significance and Techniques of Organic Vegetable Production Hradesh Shivhare, C.N. Ram, Aastik Jha, Anil Kumar and Lokesh Yadav	44-47
10	Enhancing Chickpea Production: The Role of Bio-fertilizers and Organic Sources Shani Gulaiya	48-54
11	The future of Wheat: Emerging trends and technologies Adarsh Mishra, Piyusha Singh, Javed	55-57
12	Agriculture Revolution through CRISPR-Cas9 Gene Editing in Vegetable Crops Anjali Kumari Jha and Alok Kumar	58-61
13	The Future of Farming: Latest Trends in Agricultural Drone Technology Omkar Gupta	62-67
14	Role of ICT in Adaptation to Climate Change D. V. Singh and Monika Patel	68-74
15	Mimosa Pudica: Sensitive Marvel of nature Alok Kumar and Anjali Kumari Jha	75-78
16	Cultivating Connections: The Impact of the Internet on Farmer-to-Farmer Communication Suman and Satinder Singh	79-81
17	Bougainvillea as a Climbing Plant for Vertical Gardens in Urban Environments Anil K. Meghwali, Hamid F. Wani, Aftab M. Mulla, Pooja R and Tehane K	82-86
18	Avocado Chutney: A Culinary Delight and Business Opportunity	87-89

	Balaji Vikram	
19	Zinc-Solubilizing Bacteria: A Sustainable Approach for Enhancing Agricultural Productivity and Soil Health Ramjas Meena, Ajeet Kumar, Sunita Kumari Meena, Sanjay Kumar Singh and Mohit Bairwa	90-95
20	Role of Self-Help Groups in Women Empowerment Suman, Satinder Singh, Palbinder Kour and Sachin Kumar	96-98
21	Innovative Packaging Solutions for Fresh Fruits Nishant Shekhar, Sreejitha S. Pillai, Utkarsh Sawant Dessai and Sakshi Maurya	99-103
22	Sustainable Practices to Maximize profit in Marigold Farming Purnima Singh Sikarwar	104-110
23	Genetic improvement of fruit crops using biotechnological tools Ujjwal Singh, Danendra Kumar Jain, Vinay Panwar, Shivaji N. Kolekar and Shune Movi	111-117
24	Baby Corn: Nutrition-Rich Treasure Tarun Uniyal, Dharavath Poojitha, Vankadavath Nagaraju, Padi Mahesh, E. Rohith	118-122
25	Sensor Based Irrigation System In Horticulture Samikhya Jena, Anil Ramdas Kakade, Vishal Jagdish Kelaskar, Akarshit Dhiman, Syed Romana Mahmood, Vankadavath Nagaraju	123-128
26	Vegetable grafting: An innovative trend in olericulture Dr. Mital A. Dudhat, Samikhya Jena, K. Babu Rao, Barsha Nath, Vankadavath Nagaraju	129-134
27	The Enactment of Disease Resistance in Important Crops through Genomic Selection Sourav Man, Puja Sarkar and Dr. Tulsi Saran Ghimiray	135-140
28	Hydroponics Production Of Italian Basil Crop R. Sudha Rani, K. Krupavathi and K.V. L. Supraja	141-147
29	Cold Chain Solutions for Post-Harvest Food Preservation Rajan Mahendra, Anurag Saurabh, Abarna S and Ranjani M	148-159
30	Clean Technology Through Bio Char to Enhance Soil and Water Quality K. Babu Rao, Jaydeep Panda, Priya Raj A N, M. Muralidhar Rao and Milon Jyoti Konwar	160-164
31	Impact of Temperature on Post-Harvest Quality of Fruits Rajan Mahendra, Brijesh Kumar Yadav, Abarna S and Dhaneshvari Arya	165-170
32	Bioplastics: The Future Of Eco-Friendly Packaging Materials Rahul Prakash Chapke, Alla Venkata Satya Hyndavi, Priya Raj A. N, Supriya Sonowal and Dipankar Dey	171-175
33	Physiological Disorders of Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>) K. Rajendar Sagar	176-179
34	Biotechnological Approaches for Disease Resistance in Fruit Crops Kiran	180-184
35	Food Irradiation: Enhancing Food Safety and Quality Rajan Mahendra, Brijesh Kumar Yadav, Abarna S and Dhaneshvari Arya	185-192
36	Advances in Cloud-Based Solutions for Farm Data Management Aniketkumar L. Bijewar, Deepa Tomar, A. Pavani Rani, Priyanka Solanki and Vinay	193-199
37	Enzyme Applications in the Food Industry Rajan Mahendra, Dhaneshvari Arya, Abarna S and Brijesh Kumar Yadav	200-207
38	Coconut Shell and Its Valuable Potential Uses Aishwarya Rajkumar Ingole, Aniketkumar L. Bijewar, Dukchuk Tamang, Sayan Debsingha and Ujjwal Singh	208-214
39	Implications of Nanotechnology for Food Security, Postharvest loss reduction and Food Processing Soumya Patil, Sandeep Kumar, Sayan Debsingha, Alla Venkata Satya Hyndavi, Smile Balda	215-221
40	Marker-Assisted Selection in Breeding for Biotic Stress Resistance Sanjana Kumari and Priyanka Kumari	222-226

41	Plant Microbiome Engineering for Crop Breeding: A Revolutionary Approach Shinde C. S.	227-230
42	Smart Weeding Robots: The Future of Weed Control Shubham Kumar and Neha Nevendra	231-238
43	Soil Erosion: Causes, Consequences, and Prevention Techniques Dr. Priyanka Rani, Dr. Jitendra Singh and Dr. Akhilesh Kumar Singh	239-244
44	Speed Breeding and its Application in Fruit Crop Improvement Md. Rizwanullah, Gaidinglungliu Gonmei and Md. Zeeshan Qaiser	245-249
45	Synthetic Biology for Crop Improvement Teena Patel and Sampurna Bhattacharya	250-256
46	The Role of Plant-Microbe Interactions in Enhancing Vegetable Crop Resistance Deepshikha, Sachin Yadav, Nihar Ranjan Nayak, Shreyanshu and Himanshu Thakur	257-262
47	Boosting Mung Bean Productivity: The Role of Seed Bioprimer with Biocontrol Agents and Foliar Liquid Biofertilizers Ankita kumari, S. C. Vimal, Javed, Raja Bhaiya	263-268
48	Sumallee Sala Fruit: An Overview of Cultivation, Uses, and Production Technology R.M Reja, Utpal Singha and Nikita Mishra, Vasanth P	269-273
49	Struggle of Scientists to Establish the Concept of Heredity Kanhaiya Lal, Alok Kumar Singh, Vishal Singh, Shiv Prakash Shrivastava, Durga Prasad and Ajeet Jaiswal	274-277
50	Spices and Medicinal Plant Farming as Niche Markets in Northeastern India Nikita Mishra, Nandini Gupta, Rasika Ashok Sarje and Sarath Jayakumar	278-282
51	Cherry Tomato: nutritional importance and cultivation Puli Vijaya Babu, Shreyas Aradhya C S, Vankadavath Nagaraju, Padi Mahesh, Edigi Akhil Maharshi	283-287
52	The effective extension methods used for agronomic knowledge dissemination and educating the farmers Mr. Aniket Ambadasrao Patil, Dr. J. P. Deshmukh and Dr. S. L. Badgujar	288-293
53	Statice: Dried Beauty Of Floriculture Mansi Mishra, Talari Sangeetha, Padi Mahesh, Sweta Subhasree Jena, Sonai Yogesh	294-298
54	The ideal facilitation process with actual experience for better execution of on-farm visits with farmers Mr. Aniket Ambadasrao Patil, Dr. J. P. Deshmukh and Dr. S. L. Badgujar	299-302
55	Vertical Strawberry Farming: Innovations and Future Prospects Akashit Dhiman, Thakare Harshad Sukar, Kirti saini, Vankadavath Nagaraju	303-307
56	Ideal agronomic TV talk script for farm telecast on weed management in kharif maize Mr. Aniket Ambadasrao Patil, Dr. J. P. Deshmukh and Dr. S. L. Badgujar	308-311

Hindi Articles

1	प्रारंभिक बाल्यावस्था शिक्षा का महत्व डॉ। सुमेधा चौधरी	1-2
2	बागवानी फसलों के लिए बाग की योजना और लेआउट हरेंद्र कुमार शाक्य, साक्षी मिश्रा, आदर्श पाण्डेय, रामप्रकाश चंद्रवंशी	3-12
3	अलसी की वैज्ञानिक खेती डा० सत्येन्द्र कुमार, डा० डी. पी. सिंह, डा० विजय चन्द्रा, डा० शिव पूजन यादव	13-15

4	फसलों में हानि पहुंचाने वाले कीटों एवं रोगों का जैविक नियंत्रण विमल कनौजिया	16-18
5	जेठी सावां / चेना (श्री अन्न) की खेती उससे बनने वाले पौष्टिक व्यंजन व स्वास्थ्य लाभ डा० सत्येन्द्र कुमार, डा० शिव पूजन यादव, डा० विजय चन्द्रा, डा० डी. पी. सिंह	19-20
6	अंजीर की वैज्ञानिक खेती राधा, कौशल कुमार एवं डॉ. अतुल यादव	21-26
7	जलवायु और मौसम के अनुसार बागवानी प्रथाओं का अनुकूलन रामप्रकाश चंद्रवंशी, गौरव गुप्ता, कृष्णा एवं ऋषभ राज	27-31
8	तोरिया एवं सरसों की उन्नत खेती सर्वजीत, प्रवीण कुमार मिश्र एवं ओम प्रकाश	32-36
9	बागवानी में वायरस-मुक्त पौध सामग्री सुनिश्चित करने के लिए रणनीतियाँ डॉ. दीपक सिंह, डॉ. संदीप रायपुरिया, उद्देश्य सिंह, रामप्रकाश चंद्रवंशी	37-39
10	कृषिवानिकी के प्रमुख कीट एवं रोग तथा रोकथाम के उपाय नूतनांक शेखर मिश्र, एस० के० वर्मा एवं आर० के० आनंद	40-42
11	जलवायु परिवर्तन और खेती पर इसका प्रभाव भावना धाकड़	43-47
12	दलहनीय फसलों के अधिकतम उत्पादन हेतु फसल सुरक्षा एवं प्रबंधन नूतनांक शेखर मिश्र, एस० के० वर्मा एवं अभिषेक सिंह	48-51
13	सटीक कृषि के लिए ड्रोन्स का उपयोग: एक गहन विश्लेषण भावना धाकड़ आर. एस. राठौड़, प्रणिता राठौड़, हरदत्त कसवां	52-55
14	हरी खाद का उपयोग शिवेंद्र कुमार सिंह, आलोक पटेल, रत्नालिका मौर्य, विनायक कुमार मौर्य, केदार महादेव घेवारे	56-57
15	वर्टिकल फार्मिंग: शहरों में कृषि की नई दिशा भावना धाकड़, आर. एस. राठौड़, प्रणिता राठौड़	58-62

<https://neweraagriculture.com/>

NEW