

# NEW ERA AGRICULTURE MAGAZINE

VOLUME 03, ISSUE 10, MARCH - 2025

## CONTENTS

S. NO.	TITLES & AUTHORS	PAGE NO.
1	<b>Molecular Markers in Plant Breeding: Applications and Challenges</b> Dr. Sujata Bhavusaheb Pawar	1-7
2	<b>Heat Stress and Its Impact on Photosynthesis and Yield in Wheat</b> Gaikwad S. A	8-19
3	<b>Genetic Basis of Drought and Heat Tolerance in Major Crops</b> Dr. Sujata Bhavusaheb Pawar	20-26
4	<b>Eco-Friendly Farm Machinery: How to Reduce Carbon Footprint in Agriculture</b> Yashpal Yadav and Meenu	27-31
5	<b>Hybrid Breeding in Cereals: Genetic Strategies for Yield Enhancement</b> Dr. Sujata Bhavusaheb Pawar	32-40
6	<b>Mutation Breeding: Past Achievements and Future Perspectives</b> Dr. Sujata Bhavusaheb Pawar	41-47
7	<b>The Black Gold for Sustainable Agriculture</b> Alok Kumar and Anjali Kumari Jha	48-51
8	<b>Biostimulants in Plants: Definition, Concepts, Key Categories, and Regulation</b> Patel Mrugesh M., Shivam Dinkar, Yogita Lather, David Lalrochunga and Nihar Ranjan Nayak	52-59
9	<b>Cryptic Host Relationships of Soil borne Fungal Pathogens</b> Adluri Prashanth, Challa Yashaswini, K. Gopika and K. Manasa	60-66
10	<b>Diversified Crop Rotation: A Pathway to Sustainable Agricultural Production</b> Saomya Dubey, Chuncha Laxmi Prasanna, Dr. Akshita Bisht, Dr. Deepa Tomar and Dr. Sarat Sekhar Bora	67-75
11	<b>Conservation Agriculture: A Sustainable Path for Future Farming</b> Anjali Kumari Jha and Alok Kumar	76-79
12	<b>The Future of Pollination: Robotic Bees and Their Role</b> Chinthala Yashwanth Kumar and Narne Kavya	80-83
13	<b>Genomics and Biotechnology Approaches for Improving Sesame's Abiotic Stress Tolerance</b> Pramod Kumar, M. Bharath Kumar, Yogesh Shaniware, Arvind Patel and Patil Nikhil	84-90
14	<b>Soil Microbiomes: Crucial Contributors to Soil Health Conservation in a Changing Climate</b> Poonam Shrutee Sahoo, Chuncha Laxmi Prasanna, Janga Prasanth, Md Shadab Alam and Rahul Soni	91-97
15	<b>The Evolving Landscape of Intellectual Property in agricultural productivity</b> Sripada Shreeya, Jaya Bijaya Biraja Das, Malini K., Johnson Lakra and Md Shadab Alam	98-104
16	<b>The Threat of Vibriosis in Aquaculture</b> Md Shadab Alam, Lipsa kuanr, Harshrajsinh Mahendrasinh Zankat, Abhay bhara Baniya and Rajkumar M. Dabhi	105-110
17	<b>Harnessing Microbial Technology for Regenerative Agriculture in India and Asia</b> Bedanga Bordoloi and Etali Sarmah	111-113

18	<b>Health benefits and sustainable uses of Pumpkin (<i>Cucurbita moschata</i>)</b> Shweta Verma, Shefali Chaudhary and Dr. Aastik Jha	114-118
19	<b>Plant-Microbe Interactions for Sustainable Fruit Production: A Biotechnological Perspective</b> Md. Rizwanullah, Dr. Amit Kumar Singh, Md. Zeeshan Qaiser and Priyanka Kumari	119-122
20	<b>Processing potential and importance to humans of bottle gourd (<i>L. siceraria</i>)</b> Shefali Chaudhary, Shweta Verma, and Dr. Aastik Jha	123-126
21	<b>Flora And Fauna in Climate Change Adaptation</b> Simadri Rajasri and Sanasam Angousana	127-130
22	<b>Assessing Pollen Viability and Stigma Receptivity: A Practical Guide</b> Kagita Navya and A. Gouthami	131-133
23	<b>Biotechnological Developments in Mango and Their Role in Crop Improvement</b> Ujjwal Singh, Dikhasmita Bezbarua, Sukjai Dhar, Shibangi Ray and Vinay Kumar Hardaha	134-142
24	<b>Building a Sustainable Agri-Food Supply Chain through Collaboration</b> L. Geetarani Devi, Ashfeeka Islam, Ashwini Choudhary, Amareesh Kumar Yadav and Roshni Thampi	143-150
25	<b>Improving Oilseed Flax Productivity: The Role of Agronomic Management</b> Lipsa kuanr, Jyotiranjan Jena, Yogita Lather, Th. Nengparmoi and Sarat Sekhar Bora	151-159
26	<b>Integrating High-Resolution Remote Sensing, GPS, and GIS for Precision Soil Mapping</b> Th. Nengparmoi, Marwan Reddy Chinnam, Yogita Lather, Koushik Ghosh and Md Shadab Alam	160-166
27	<b>The Biology and Host Range of <i>Phytophthora capsici</i>: An Oomycete Pathogen</b> Faeza Falha N. A., Malini K., Piyush, Hans Austin K. H. and Arkadeb Chatterjee	167-173
28	<b>Value Added Products of Bael: The Fundamental Role of Income Generation of Farmer</b> Shankar Rajpoot, Rohit, Alan Evon Singh, Kuver Singh Jatav	174-176
29	<b>Climate-smart pest management</b> Dharanikota Lalithambica devi, Tokala Divyavani, Korra Bhaskar, Chinthala Yashwanth Kumar, Jatin Kumar Singh	177-182
30	<b>Pathogen Resistance in Plants: Genetic Foundations and Utilization</b> K. Gopika, Challa Yashaswini, Adluri Prashanth and K. Manasa	183-190
31	<b>Exploring Insect-Inspired Robotics: Innovations in Autonomous Systems and Bio-Inspired Technologies</b> Dharanikota Lalithambica devi, Tokala Divyavani, Korra Bhaskar, Chinthala Yashwanth Kumar, Jatin Kumar Singh	191-195
32	<b>Pest and Disease Management in Pea Cultivation</b> Anil Kumar Pal, Dr. Avanish Yadav, Suraj Pal, Anuj	196-200
33	<b>Imaging Technology for Precision Agriculture Market Advancing Crop Monitoring and Yield Optimization</b> Ganesh Dukare	201-203

### Hindi Articles

1	<b>आम का उकठा रोग प्रबंधन</b> प्रदीप कुमार एवं गोल्डी यादव	1-2
2	<b>पूर्वांचल में होने वाली बेल की प्रमुख किस्में</b> हंस राज वर्मा, वेदांत सिंह, सुप्रिया गोपाल नाईक एवं सोनम	3-8
3	<b>अमरूद के जड़ ग्रन्थि और उकठा रोगों का समेकित प्रबंधन</b> प्रदीप कुमार एवं गोल्डी यादव	9-12

4	ग्रामीण क्षेत्रों में महिलाओं पर डिजिटल साक्षरता का प्रभाव डा० दीप्ति भार्गव	13-14
5	दुधारू पशुओं के लिए आहार डा० विजय चन्द्रा, डा० डी० डी० सिंह, डा० शिवपूजन यादव एवं डा० सत्येन्द्र कुमार	15-18
6	फूलों की उद्योग में नवाचार और तकनीकी विकास पूर्णिमा सिंह सिकरवार	19-24
7	अधिक आय हेतु - भेड़ पालन डा० विजय चन्द्रा, डा० डी० डी० सिंह, डा० शिवपूजन यादव एवं डा० सत्येन्द्र कुमार	25-29
8	नशा: समाज के लिए एक अभिशाप डाँ० सुमेधा चौधरी एवं आयुषी मिश्रा	30-31
9	कद्दू की खेती के उन्नत तरीके श्वेता वर्मा, शेफाली चौधरी एवं डाँ० आस्तिक झा	32-35
10	महिला दिवस : नारी सशक्तिकरण का प्रतीक डाँ० सुमेधा चौधरी एवं दिव्या कौशिक	36-37
11	वैज्ञानिक विधि से लौकी की उन्नत खेती के फायदे शेफाली चौधरी, श्वेता वर्मा एवं डाँ० आस्तिक झा	38-40
12	दहेज : एक अभिशाप डाँ० सुमेधा चौधरी	41-42

<https://neweraagriculture.com/>