TABLE OF CONTENTS

i	Table of Contents	i-iv
1	Farming System in Sustainable Agriculture	1
	Devi Geethika J, E. Subramanian and Sangeetha Jebalin V. V.	1
	Revolutionizing Swine Breeding: The Role of Artificial Insemination	
2	Man Singh, D. S. Bidhan, Vishal Sharma, Sandeep Kumar, Narender Singh, D.	4
	C. Yadav and Amandeep	
3	Biosecurity: Protecting The Poultry from Diseases	7
	Vijay Kumar	/
4	Revolutionizing Swine Breeding: The Role of Artificial Insemination	
	Man Singh, D. S. Bidhan, Vishal Sharma, Sandeep Kumar, Narender Singh, D.	9
	C. Yadav and Amandeep	
5	Magical Musicians – The Periodical Cicadas	13
3	G. C. Kavithanjali	13
	Low Productivity of Indian Dairy Animals: Challenges & Mitigation	
6	Strategies	17
	Arjun Kumar Rao	
7	Sugarcane Bagasse as a Potential Soil Organic Amendment	19
/	Kasinam Doruk	17
8	Microgreens as Functional Food	20
	Alok Kumar, Ng Piloo and Ramesh Kumar Gupta	
9	Annuals and Their Medicinal Properties	24
	J. Vijay and P. Damodar Reddy	
10	Healthy Seeds: Chia Seeds	27
	Deepali Mudgal, Tarun Kumar Maheshwari and N. K. Sharma	
11	Role of Crop Physiology in the Production of Maize (Zea mays L.)	29
	Muneshwar Prasad Mandal	
10	Understanding The Impact of Heat Stress on Photosynthetic	04
12	Apparatus	31
	S. Pristal Augash	
13	Revolutionizing Agriculture: The Microbial Approach	34
	Ashish Yadav	
14	Success Stories in Agriculture Biotechnology	36
	Neetu Choudhary	
	Site-Specific Nutrient Management for Precision Agriculture:	
15	Optimizing Crop Performance	38
	Amit Kumar, Vivekanand Singh, Tarun Kumar Maheshwari and Deepali	
	Mudgal	
16	Transforming Indian Farming: The Economic Benefits of Drone	
	Technology	41
	Munjam Arun Kumar, M Chanakya and Velpula Jhansi Rani	
17	Regulation of Gene Expression in Prokaryotes, Eukaryotes and Its	43
	Recent Advancements	
	Nishok K. P.	

	Harnessing Yellow Sticky Traps: Revolutionizing Integrated Pest	
18	Management	47
	Kalavathi K. K., Geeta Tamagale and Jayashree Pattar	
	Scope for Value Addition of Decorative Forest Seeds	
19	Hanumantha M, Girish B Shahapurmath, Vilaskumar, Karthik H. N. and	49
	Roopa S. Patil	
20	Hydrangea for Temperate Landscaping	53
	Deepti Singh, Maya Priya and Priyanka Kumari	
21	Diversification of Insect Silk: One Name, Several Components	55
	Basavanjali, Netra and Sujay Hurali	
	Role of Information and Communication Technology (ICT) in	60
22	Education	
	Surjita Kumari and Subhashini Kaparapu	
23	Participatory Plant Breeding and Seed Villages	62
	K. U. Tribhuvan, Sudhir Kumar and Avinash Pandey	02
24	Soil Erodibility Status of Nandurbar District, Maharashtra	65
	V. K. Balsane and S. B. Nandgude	00
25	Growth Inhibitors - Their Application in Flower Crops	69
	J. Vijay and P. Damodar reddy	09
	Millets- A Journey to Nutritional Excellence	
26	Suheel Ahmad, Nazim Hamid Mir, Sheeraz Saleem Bhat, Sheikh M Sultan,	71
	Susheel K Raina and Regu Atufa	
	Unlocking the Potential Agribusiness Opportunities in NE India	
27	Thameridus B. Marak, Aniruddha Roy Ajita Tiwari, Angam Raleng and H.	75
	Naresh Singh	
20	Subhash's Cotton Triumph: SPLAT Technology Triumphs Over	79
28	PBW	
	Kalavathi K. K., Jayashree Pattar and Geeta Tamagale	
	Strawberries Unveiled: From Botanical Marvels to Economic	
29	Powerhouses	81
	Aastha Vithalkar, Keshav Kaiwartya ¹ and Yashwant Kumar Patel	
	Agricultural Marketing in the Era of e-NAM in Etah and Bareilly	
30	Mandi of UP	86
	Jyoti Chaudhary, Rajat Singh and Kalpna Thakur	
	Building Agribusiness Ecosystem for Startups through Emerging	
31	Business Models	90
	Aniruddha Roy, Thameridus B. Marak, Ajita Tiwari, Angam Raleng and H.	
	Naresh Singh	
32	Nano in Agriculture: Maximizing Efficiency, Minimizing	
	Environmental Impact	93
	Kavya Nironi	
33	Exploring the Nutritional Benefits of Oats and Innovative	97
	Processing Techniques for Enhanced Value-Added Food Products	
	Salunke Shivam Govindrao, Kadam Shahaji Munjaji and Raut Kanchan	7/
	Ramesh	

34	Prominent Technological Advancement in Agriculture over the	
	Decades	100
	R. S. Choudhary	
	Nutrient-Rich Revolution: The Future of Agriculture through	
35	Biofortification	104
	Kavya Nironi	
26	Unlocking the Nutritional Power of Dehydrated Moringa Leaves	100
36	M. Deepa and M. Yugandhar Kumar	108
37	The Impact of Micronutrients on Fruit Production of Guava	110
	Rakhi Gautam and Pratibha	110
38	Some Under-Utilised Floriculture Crops	112
	Aswini. M. S.	113
39	Immobilised Enzymes and Its Application in The Food Industry	116
	Priya V. N and Usha Ravindra	116
40	Integrated Pest Management (IPM) Under Polyhouse Conditions	110
40	P. Damodar Reddy and J. Vijay	119
	Melissa officinalis: Recent advancement in medicinal use, post-	
41	harvest processes and value addition	121
41	Amisha Rani, Bhupender Dutt, Sunil Marpa, Yashpal Sharma and Bandana	141
	Dhiman	
	Biopesticides Production and its Quality Assurance	
42	Vaseem Yousuf, Bilal Ahmed Lone, Sabiha Ashraf, Zaffer Afroz Badri and	124
	Bhinish Shakeel	
43	Unveiling the Influence of Quorum Sensing on Plant Growth	128
	R. Sowmiya	120
44	Pesticide-Induced Resurgence in Rice Planthoppers	131
• •	Netra, Basavanjali and Sujay Hurali	101
	Sustainable Floriculture: A Step Towards a New Era of Creating the	
45	World We Want	135
	Saraswati, M. K. Singh and Namita	
	Biosensors: An Innovative Approach for Modern Agriculture	
46	Vittal Kamble, Basappa S. Kamble, Sangeetha Priya S., Vijay Rakesh Reddy	139
	S. and Preethi P.	
47	Omics Technologies in Seed Science and Technology	142
	Vidya C. J., Bhavya, Sumayya M. and Priya M.	
48	Consumer Perceptions and Organic Food: Health Attitudes in the	
	Post-COVID-19 Market	145
	Himanshu Verma, Lallu Ram Awasthi, Bhavna Mishra and Bakeshwar Yadav	
49	Harnessing Moringa: A Nutritional Powerhouse Fueling	
	Opportunity in India	149
	Shivam, Visha Jain, Akshay Mehta and Ankit Singh	
50	From Seeds to Super Crops: How Haplotype Breeding is	
	Revolutionizing Agriculture	151
	Swarajya Lakshmi N. Bollineni ¹ and Supriya P	
51		
51	Biofertilizers and Methods of Application of Microbial Inoculants Raghavendra J., Karthik H. N. and Hanumantha M.	154

52	Wood Apple – An Unexploited Medicinal Fruit Tree Species Girish B. Shahapurmath, Hanumantha M., Siddappa Kannur and Akshay F. Madiwalar	157
53	Production of Particle Board from Agricultural Residues Parvathy Nayana N., Ramya C. S. and Prajwal R.	160
54	Pest Management in Mustard Crop Naina Pandey and Harpal Singh Randhawa	164
55	Seed Biopriming- An Integrated Stress Management Strategy Balasanthosh K. and Priyanka S.	166
56	Statice: An Outstanding Dry Flower Deepti Singh, Maya Priya and Priyanka Kumari	170
57	Indoor Gardening: A Profound Insight in to A Healthier Life Saraswati, Namita and M. K. Singh	173
58	The Role of Minerals in Nutrition: Importance, Sources, And Impacts on Health Keshav Kaiwartya, Aastha Vithalkar and Yashwant Kumar Patel	177
59	Unveiling the Impact of Abiotic Stress on Fruit Morphology and Physicochemical Properties: Insights and Implications for Fruit Production Jitendra Gurjar	182
60	Drones for Climate-Smart Agriculture Aveen Ragh and Suma Nair	185
61	List of Domestic Pests and Their Control Measures G Gunasekar	190
62	Host Plant Resistance and Integrated Pest Management D. K. Zate and Faria Samrin Khan	193
63	Pest Status of Thrips (Thysanoptera) in India Safna M., Meena A. and Ramya Krishna K.	197