



EDITED BY

Dr.Rania I.M. Almoselhy Dr.C.Ravindran Abisha Juliet Mary S J

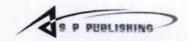
CONTENTS

.N	Book Chapter and Author(s)	Page No
l.	AGRICULTURAL WASTE MANAGEMENT IN HIMACHAL PRADESH- METHODS AND FUTURE SCOPE	1 - 10
	Dr. Leena Sharma, Dr. Anju	
2.	BLOCKCHAIN TECHNOLOGY IN THE FOOD SUPPLY CHAIN	11-17
	Mehul Chudasama, Manish Tiwari, Akansha Tiwari, Jyotimoy Goyary, Vijay Kele	
3.	TOWARDS SUSTAINABLE FORESTS: KEY TRENDS SHAPING FORESTRY TODAY Ishu Redhu, Sumit, Monika Moend	18-22
4.	WASTE TO WEALTH FROM HORTICULTURAL CROPS	23-32
	Dr. Swapnil D. Deshmukh, Dr. Ramakant P. Gajbhiye and Dr. Shilpa D. Deshmukh	
5.	DRONES AND ROBOTICS APPLICATIONS IN AGRICULTURE	33-40
	Kumari Asha, Rohit and Dr. H.C. Singh	
6.	SOIL ENZYMES IN CHANGING ENVIRONMENT: CURRENT SCENARIO AND FUTURE PERSPECTIVES	41-49
	Binder Singh, Abhishek Dus and Raj Kumar Gourav	
7.	ADAPTING AGRICULTURE TO A CHANGING CLIMATE: STRATEGIES FOR RESILIENCE Suhita Pyne, Arkaprava Roy, Abhishek Das and Sona Kumar	50-58
8.	CHANGING INDIAN AGRICULTURAL SCENARIO THROUGH CYBER EXTENSION	59-65
9.	S. D. Sarnaik, U. R. Chinchmalatpure and P.K. Wakle ADVANCE METHODS USED IN AGRICULTURE (IOT, AI, DRONE, GIS, GPS, REMOTE SENSING) Manisha Lawankar, Neha Pote, Sharayu Deshmukh	66-72
10.	NOVEL MOLECULES EMERGING AS PESTICIDE FOR INSECT PEST MANAGEMENT	73-81
	Geeta Devi, Lomash Kumar, Rahul Saini, Akash Saharan and Kanchan Kadawla	
11.	SAFE USE OF PESTICIDES: GUIDELINES BY DIFFERENT PLANT PROTECTION AUTHORITIES	82-89
	Geeta Devi, Lomash Kumar, Rahul Saini, Akash Saharan and Kanchan Kadawla	
12.	MANAGEMENT OF AGRICULTURAL WASTE Manisha Lawankar, Dr. Sandip Lambe, Dr. Pramod Wakle	90-96
13.	ELECTROSPINNING TECHNOLOGY - APPLICATION IN DAIRY AND FOOD PACKAGING	97-101
	Miss. Aprna Sharma, Dr. Ashwini Mugale, Dr. Vijay Kele and	
14.	AN OVERVIEW ON ENVIRONMENTAL IMPACT ON AGRICULTURE WITH REFERENCE TO INDIA	102-108
	Mousime Xalxo, Pavithra K	
15.	GUT REVIVAL: HARVESSEND FECAL MICROBIOTA TRANSPLANTATION (FMT) TO REJUVENATE FISH HEALTH	109-116
	Abisha Juliet Mary S J	

16.	INTERNET OF THINGS: FUTURE OF AGRICULTURE	117-126
	Ritika, Amrender Kumar, Dilip Kumar	
17.	NEW INITIATIVES OF INTERNET OF THINGS AND ARTIFICIAL INTELLIGENCE IN AGRICULTURE	127-134
	Niranda Sharma Leihaothabam, Rajkumar Josmee Singh, Wangshitula Longchar, Golla Ravi	
18.	MARKETING STRATEGY FOR FARMER TO CONSUMER Neha Pote, Manisha Lawankar, Sharaya Deshmukh	135-142
19.	VALORIZATION OF FRUITS AND VEGETABLES BY- PRODUCTS IN FOOD, PHARMACEUTICAL, AND COSMETICS INDUSTRIES	143-145
	Sandhiya.V, Dhunmathi K, Shankari E	
20.	NUTRI-SENSITIVE AGRICULTURE: HARNESSING THE POWER OF NUTRITION FOR SUSTAINABLE FOOD SYSTEMS	146-151
	S.K. Deshmukh, M.D. Lawankar, N.S. Pote	
21.	NUTRI SENSITIVE AGRICULTURE- THE FOUNDATION OF A HEALTHY LIFE	152-154
	Trishita Banik, Satya Prakash	
22.	RECENT ADVANCES AND FUTURE PERSPECTIVES OF POMEGRANATE CULTIVATION IN INDIA C. Ravindran, I.Muthuvel, J.Rajangam and M.Kavitha	155-167
23.	PROPAGATION STRUCTURES FOR SUSTAINABLE HORTICULTURE CROP PRODUCTION	168-175

S P PUBLISHING

Quality Publishing destinations for Multidisciplinary Subjects



Certificate No: C/SP/14/CTAAS-01/23

Publication Certificate

This is to certify that *Mousime Xalxo and Pavithra K* published a book chapter entitled, "*An Overview on Environmental Impact on Agriculture with Reference to India*" (page no-102-108), in the book "Current Trends in Agriculture & Allied Sciences (Volume-1), ISBN- 978-93-5906-138-2)" published by our publishing house in the month of July, 2023.

Managing Editor, SP Publishing, India

CHAPTER 14

An Overview on Environmental Impact on Agriculture with Reference to India

Mousime Xalxo, Pavithra K

Assistant Professor, Department of Commerce St. Francis De Sales Degree College

ABSTRACT

Agriculture is a critical sector that provides food security, livelihoods, and contributes to economic development. This literature review aims to provide an overview of recent research and developments in the field of agriculture, highlighting key trends and future directions. The paper covers agriculture, including sustainable farming practices, precision agriculture, digital technologies, climate change adaptation, and agricultural policy. By synthesizing relevant literature, this review offers valuable insights into the current state of agriculture and identifies potential areas for further research and innovation.

Keywords: Sustainability, Environmental impact, Climate change

Introduction

Agriculture is the primary source of food production, providing the majority of the world's food supply. It encompasses crop cultivation, livestock rearing, aquaculture, and fishing, which collectively contribute to meeting global food demand. With the world's population projected to reach 9.7 billion by 2050, agriculture must produce more food to meet the increasing demand. Sustainable and efficient agricultural practices are essential to ensure an adequate food supply for a growing population.

Agriculture is critical for achieving food security, which means ensuring that all individuals have access to sufficient, safe, and nutritious food. By increasing agricultural productivity and reducing food scarcity, agriculture helps mitigate hunger and malnutrition on a global scale. Agriculture is a significant contributor to economic development, especially in rural areas. It provides employment opportunities, generates income for farmers and rural communities, and contributes to national economies through exports and trade. Agricultural development can stimulate economic growth and poverty reduction.

Agriculture supports the livelihoods of millions of people worldwide, particularly in developing countries. Smallholder farmers, farm laborers, and rural communities depend on agriculture for their income, food security, and overall well-being. Enhancing agricultural productivity and supporting rural development can improve livelihoods and reduce rural poverty. Sustainable agricultural practices are crucial for environmental conservation and mitigating climate change. Agriculture affects ecosystems, biodiversity, water resources, and soil health. By adopting sustainable farming methods, such as organic farming, agroforestry, and conservation agriculture, agriculture can minimize its environmental impact and promote ecosystem resilience.

Agriculture faces numerous challenges, including climate change, water scarcity, pests, and diseases. By investing in research and development, technological innovation, and resilient farming practices, agriculture can adapt to changing conditions, enhance crop resilience, and ensure stable food production in the face of environmental uncertainties. Agriculture contributes to food sovereignty, which emphasizes the rights of individuals and communities to determine their food production and consumption systems. Local and regional agricultural production reduces dependence on imported food and enhances self-