



# Dr Uadal Singh

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## AREAS OF EXPERTISE

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### Horticulture

Post harvest management of fruits and vegetables

## EDUCATION

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### Ph.D. Horticulture 2009

*Indian Agricultural Research Institute, New Delhi*

### M.Sc. Horticulture 2004

*Indian Agricultural Research Institute, New Delhi*

### B.Sc. (Hons.) Agriculture 2001

*RAJASTHAN AGRICULTURAL UNIVERSITY, BIKANER*

## PROFESSIONAL EXPERIENCE

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### Sri Karan Narendra Agriculture University, Jobner 2021 - Present

*Professor*

Jaipur

### Sri Karan Narendra Agriculture University, Jobner 2018 - 2021

*Associate Professor*

Jaipur

### National Council of Educational Research and Training 2009 - 2018

*Assistant Professor*

Bhopal

## RESEARCH PROJECTS

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### Farmer Friendly Approach for Vegetable Cultivation under Low-cost Polyhouse Structures

*Role: Principal Investigator*

Year: 2023 | Amount: 99.78 Lakh

## HONOURS AND AWARDS

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### **Fellow of SHRD** 2024

Awarded by: Society for Horticultural Research and Development,

### **Rajiv Gandhi National Fellowship** 2004

Awarded by: UGC

### **ICAR-Junior Research Fellowship** 2002

Awarded by: ICAR

## PROFESSIONAL MEMBERSHIPS

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### **Society for Horticultural Research and Development, Uttar Pradesh** 2023

*Life Member*

### **Edwin Group of Journals** 2023

*Life Member*

### **Indian Academy of Horticultural Sciences, New Delhi** 2021

*Life Member*

### **Agri Articles** 2021

*Associate Editor*

### **International Journal of Agriculture Sciences** 2020

*Associate Editor*

## COMMITTEE MEMBERSHIPS

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### **Board of Studies, Vishvakarma Skills University, Jaipur** 2024

*Member*

### **BOARD OF STUDIES (INTERDISCIPLINARY EDUCATION), NIA, JAIPUR** 2021

*Member*

## PUBLICATIONS

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#### 1. **Evaluation of sponge gourd (*Luffa cylindrica*) hybrids for yieldcontributing traits**

Sharma, Aishwarya and Singh, B and Sharma, YK and Singh, Uadal and Choudhary A  
CURRENT HORTICULTURE , Vol. 13 (2025) , pp. 66--70

#### 2. **Optimizing yield and quality attributes of bottle gourd (*Lagenaria siceraria*) through growing methods and bio-regulators in semi-arid environment**

Pooja Devi Meena, O P Garhwal,L N Bairwa, R K Bagri,O P Meena,R N Sharma Uadal Singh  
The Indian Journal of Agricultural Sciences , Vol. 95 (7) (2025) , pp. 827--832

3. **Comparative study of conventional and organic farming of coriander (*Coriandrum sativum*)-radish (*Raphanus sativus*) cropping sequence**  
*Singh, Uadal and Sharma, YK and Bagri, RK and Choudhary, Ashok and Bairwa, SK and Mahawar AK*  
CURRENT HORTICULTURE , Vol. 13 (2025) , pp. 37--41
4. **Shielding your Capsicum: Advanced techniques in crop protection and management**  
*Sagar Saini, Uadal Singh, Krishna Jat, Madhu Bai Meena, Surbhi Singh, Shikha Swarnkar Juhi Aswani and Mahendra Meena*  
International Journal of Advanced Biochemistry Research , Vol. 9 (2025) , pp. 463--473
5. **Effect of planting time and variety on growth and yield attributes of tomato in semi-arid conditions of Rajasthan**  
*Uadal Singh; Y K Sharma; R K Bagri; A K Choudhary; A K Mahawar*  
Indian Journal of Arid Horticulture , Vol. 6 (2025) , pp. 73--76
6. **Thermo-Chemical Processes for Food Waste Treatment**  
*Tarafdar, Ayon and Sirohi, Ranjna and Singh Uadal*  
Sustainable Technologies for Food Waste Management , Vol. (2025) , pp. 40--48
7. **Thermo-Chemical Processes for Food Waste Treatment**  
*Tarafdar A.;Sirohi R.;Singh U.*  
Sustainable Technologies for Food Waste Management , Vol. (2025) , pp. 40-48
8. **Enhancing performance and profitability of bottle gourd (*Lagenaria siceraria*) through growing methods and bio-regulators in semi-arid region**  
*Pooja Devi Meena,O. P. Garhwal, L.N. Bairwa, R.K. Bagri, O. P. Meena, R N Sharma Uadal Singh & R K Sharma*  
Indian Journal of Arid Horticulture , Vol. 6 (2024) , pp. 66--72
9. **Effect of Bio-fertilizers on Growth Attributes of Broccoli (*Brassica oleracea* var. *italica* L.)**  
*Sagar Saini, Sanjay Kumar, Shatrunjay Yadav, Krishna Jat Uadal Singh and Narendra Yadav*  
International Journal of Plant & Soil Science , Vol. 36 (2024) , pp. 367--372
10. **Exploring processing potential of horticultural crops in Rajasthan**  
*Ranjna Sirohi and Uadal Singh*  
(2024) , pp. 79--84
11. **Effect of NPK and Sulphur on growth and yield attributes of cauliflower (*Brassica oleracea* var. *botrytis* L.)**  
*A.K. Mahawar, Y.K. Sharma, Uadal Singh S.K. Bairwa and P.K. Hatwal*  
Frontiers in Crop Improvement , Vol. 10 (2022) , pp. 3277--3282
12. **Response of cabbage (*Brassica Oleracea* var. *capitata* L.) to irrigation intervals and different types of mulches**  
*A.K. Mahawar, R.S. Meena, Y.K. Sharma Uadal Singh and S.K. Bairwa*  
Frontiers in Crop Improvement , Vol. 10 (2022) , pp. 3272--3276
13. **Antioxidant Properties and Health Benefits of Mango**  
*K. Prasad, S.K. Singh, Panchaal B., J. Rime, Arghya Mani, Uadal Singh Meena N.K. Meena and Pushpendra K.*  
Antioxidant Properties and Health Benefits of Horticultural Crops , Vol. (2022) , pp. 1--24
14. **Solanaceous Crop Cultivator-Textbook for class X**  
*R.K.Pathak, Akhilesh Tiwari, Anil Bhushan, Harshwardhan Choudhary, I.B. Maurya, , S.Chopra,*

*S.S.Sirowa, S.,Prajapati, Uadal Singh and Y.D.Khan*  
Solanaceous Crop Cultivator-Textbook for class X , Vol. (2021) , pp.

**15. Floriculturist (Protected Cultivation)-Textbook for class XII**

*R.K.Pathak, S.K.Balaji, K.V.R. Rao, Naved Sabir, S.N.Patil, P.M.Nimje, S. Prajapati, Uadal Singh and Vijay Agrawal*  
Floriculturist (Protected Cultivation)-Textbook for class XII , Vol. (2021) , pp.

**16. Morphological Physiological and Biochemical Response to Low Temperature Stress in Tomato (Solanum lycopersicum L.): A Review**

*D. K. Yadav , Yogendra K. Meena, L. N. Bairwa, Uadal Singh, S. K. Bairwa, M. R. Choudhary A. Singh*  
International Journal of Bio-resource and Stress Management , Vol. 12 (2021) , pp. 706--712

**17. Effect of bio-pesticides against thrips Megalurothrips usitatus (Bagnall) in green gram**

*Meena, Ram Kishor and Meena, Ravindra Kumar and Anokhe, Archana and Singh, Uadal and Meena, Manohari Lal and Meena, Babu Lal and Meena Manoj Kumar*  
Annals of Plant Protection Sciences , Vol. 28 (2020) , pp. 63--66

**18. Effectiveness of some insecticides on spotted pod borer Maruca vitrata geyer (Lepidoptera: Pyralidae) in greengram.**

*Meena, Ram Kishor and Meena, Ravindra Kumar and Singh, Uadal and Meena Manohari Lal*  
International Journal of Agricultural Sciences , Vol. 16 (1) (2020) , pp. 95-100

**19. Evaluation of insecticides against Bihar hairy caterpillar Spilosoma obliqua Walker in clusterbean.**

*Kishor, Meena Ram and Kumar, Meena Ravindra and Archana, Anokhe and Uadal, Singh and Lal, Meena Manohari and Lal, Meena Babu and Kumar Meena Manoj*  
(2020)

**20. Evaluation of insecticides against leaf hopper empoasca kerri pruthi in green gram**

*Meena R.K.;Meena R.K.;Singh U.;Meena M.L.;Meena B.L.;Anokhe A.*  
Indian Journal of Entomology , Vol. 82 (2020) , pp. 768-770

**21. Bio-efficacy of some insecticides against bean aphid, aphis cracivora koch (Hemiptera: Aphididae) in clusterbean**

*Meena R.K.;Meena R.K.;Singh U.;Meena M.L.;Meena B.L.*  
Pesticide Research Journal , Vol. 32 (2020) , pp. 159-164

**22. Bio-efficacy of different insecticides against leaf hopper Empoasca kerri Pruthi (Cicadellidae: Hemiptera) in clusterbean.**

*Meena, Ram Kishor and Meena, Ravindra Kumar and Singh, Uadal and Meena Manohari Lal*  
(2020)

**23. Floriculturist (Open Cultivation)-Textbook for class XII**

*R.K.Pathak, A.K.Tiwari, Ashutosh Mishra, S.K.Balaji, Gaurav Sharma, K.S.Verma, P.Kumar, R.L.Mishra, Narendra Vasure, Uadal Singh, V.K.Tripathi D.V.S. Raju and Y.D.Khan*  
Floriculturist (Open Cultivation)-Textbook for class XII , Vol. (2020) , pp.

**24. Bio-efficacy of some insecticides against bean aphid Aphis cracivora koch (Hemiptera: Aphididae) in clusterbean**

*Meena, Ram Kishor and Meena, Ravindra Kumar and Singh, Uadal and Meena, Manohari Lal and Meena Babu Lal*  
Pesticide Research Journal , Vol. 32 (2020) , pp. 159--164

25. **Effect of soil pollution on soil microbial diversity**  
*Dotaniya, ML and Aparna, K and Choudhary, Jairam and Dotaniya, CK and Solanki, Praveen and Narwal, Ekta and Kumar, Kuldeep and Dotaniya, RK and Lal, Roshan and Meena BL and others* (2020) , pp. 255--272
26. **Evaluation of Insecticides against Bihar hairy caterpillar *Spilosoma obliqua* Walker in Clusterbean**  
*Meena, Ram Kishor and Meena, Ravindra Kumar and Anokhe, Archana and Singh, Uadal and Meena, Manohari Lal and Meena, Babu Lal and Meena Manoj Kumar*  
*Annals of Plant Protection Sciences* , Vol. 28 (2020) , pp. 25--28
27. **Organic farming: An option for food quality and environmental benefits**  
*Nanda, G., Singh, D. K., Meena, B. L. and Singh, U.*  
*Sustainable Agriculture* , Vol. (2019) , pp. 382-390
28. **Gliricidia-A Potential Crop of Agricultural Crop Production**  
*Meena, Babu and Dotaniya, C.K. and Singh Uadal*  
*Indian Farmers Digest* , Vol. 52 (2019) , pp. 42--44
29. **Gardener-Textbook for class XI**  
*R.K.Pathak, Ajit Kumar, Ashutosh Mishra, Gaurav Sharma, P.Kumar, P.M.Nimje, R.L.Mishra, S. Prajapati, Uadal Singh, V.S. Raju Danturluri, V.K.Tripathi and Y.D.Khan*  
*Gardener-Textbook for class XI* , Vol. (2019) , pp.
30. **Efficacy of insecticides on Bean aphid *Aphis cracivora* Koch in Green gram**  
*Meena, Ram Kishor and Meena, Ravindra K and Singh, Uadal and Meena, Manohari L and Kumar Sarwan*  
*Annals of Plant Protection Sciences* , Vol. 27 (2019) , pp. 342--345
31. **Solanaceous Crop Cultivator-Textbook for class IX.**  
*Uadal Singh, Akhilesh Tiwari, Anil Bhushan, Harshwardhan Choudhary, I.B. Maurya, R.K.Pathak, S.Chopra, S.S.Sirowa S. Prajapati and Y.D.Khan*  
*Solanaceous Crop Cultivator-Textbook for class IX.* , Vol. (2018) , pp.
32. **Ethylene Synthesis Inhibitors as Technique for Increasing Shelf Life and Quality of Fruits and Vegetables**  
*Neha, Pallavi and Prasad, K. and Singh Uadal*  
*Agriculture for Sustainable Development* , Vol. 5 (2017) , pp. 6--10
33. **Empowerment of tribal women through skill development in medicinal plant cultivation**  
*Singh, Uadal and Pathak, R.K. and Prajapati Sunil*  
*Indian Journal of Vocational Education* , Vol. 23 (2017) , pp. 75--81
34. **ROOTSTOCK MEDIATED EFFECT ON FRUIT RIPENING BEHAVIOUR AND PHYTOCHEMICAL COMPOSITION: AN OVERVIEW**  
 (2016)
35. **Effect of packaging & storage on the nutritional qualities of dehydrated bitter gourd (*Momordica charantia* L.) rings**  
*Singh, Uadal and Sagar V.R.*  
*Agriculture for Sustainable Development* , Vol. 4 (2016) , pp. 112--116
36. **EFFECT OF PACKAGING & STORAGE ON THE NUTRITIONAL QUALITIES OF DEHYDRATED BITTER GOURD (*Momordicacharantia* L.) RINGS**

37. **Effects of Growing Media on Germination and Plant Survival of Okra [Abelmoschus Esculentus (L.) Moench] Cv. Arka Anamika**  
*Meena, S.K and Dwivedi, Deepa H. and Singh Uadal*  
Agriculture for Sustainable Development , Vol. 3 (2015) , pp. 87--90
38. **Glimpses of Post-Harvest Technology**  
*Meena Uadal Singh and Suresh Kumar P*  
(2013)
39. **Effect of Drying Methods on Nutritional Composition of Dehydrated Bitter Gourd (Momordica Charantia L) Rings**  
*Singh, Uadal and Sagar VR*  
Agriculture for Sustainable Development , Vol. 1 (2013) , pp. 83--86
40. **Influence of slice thickness on the quality of dehydrated bitter gourd rings**  
*Singh U.;Sagar V.R.;Asrey R.*  
Indian Journal of Horticulture , Vol. 68 (2011) , pp. 283-285
41. **Effect of pre-treatments on the quality of dehydrated leafy vegetables rich in vitamin A**  
*SINGH, UADAYL and SAGAR, VR and KUMAR P SURESH and others*  
The Indian Journal of Agricultural Sciences , Vol. 76 (2011)
42. **Quality characteristics of dehydrated leafy vegetables influenced by packaging materials and storage temperature**  
*Singh U.;Sagar V.R.*  
Journal of Scientific and Industrial Research , Vol. 69 (2010) , pp. 785-789
43. **Effect of Harvest Maturity on the Quality of Dehydrated Bitter Gourd Rings**  
*Singh, Uadal and Sagar, VR and Behera TK*  
Pusa AgriScience , Vol. 33 (2010) , pp. 65--68
44. **Studies on the enrichment of natural colour of Langra mango pulp**  
*Phong, N.V. and Sagar, V.R. and Singh Uadal*  
Pusa AgriScience , Vol. 32 (2009) , pp. 33--36
45. **Objective Horticulture**  
*Anil Verma, Anju Dhiman, Anil Gupta, Dharminder Kumar and Pardeep Kumar*  
Objective Horticulture , Vol. (2008) , pp.
46. **Effect of ripening stages on osmo-dehydrated guava slices**  
*Suresh Kumar P.;Sagar V.R.;Singh U.*  
Journal of Food Science and Technology , Vol. 45 (2008) , pp. 546-548
47. **EFFECT OF HARVEST MATURITY AND DRYING METHODS ON THE QUALITY OF DEHYDRATED BITTER GOURD (Momordica charantia L.) RINGS**  
*UADAL SINGH*  
(2008)
48. **Effect of ripening stages on osmo-dehydrated guava slices.**  
*Kumar, P Suresh and Sagar, VR and Uadal Singh Uadal Singh*  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE- , Vol. 45 (2008) , pp. 546--548

49. **Influence of packaging and storage temperature on the quality of dehydrated selected leafy vegetables**  
*Singh, Uadal and Sagar VR*  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE , Vol. 45 (2008) , pp. 450--453
50. **Effect of tray load on drying kinetics of mango, guava and aonla**  
*Kumar P.S.;Sagar V.R.;Singh U.*  
Journal of Scientific and Industrial Research , Vol. 65 (2006) , pp. 659-664
51. **Effect of tray load on drying kinetics of mango guava and aonla**  
*Kumar, P Suresh and Sagar, VR and Singh Uadal*  
Journal of Scientific and Industrial Research , Vol. 65 (2006) , pp. 659
52. **Effect of drying conditions on the quality of dehydrated selected leafy vegetables**  
*Singh U.;Sagar V.R.;Behera T.K.;Suresh Kumar P.*  
Journal of Food Science and Technology , Vol. 43 (2006) , pp. 579-582
53. **Effect of pre-treatments on the quality of dehydrated leafy vegetables rich in vitamin A**  
*Singh U.;Sagar V.R.;Sureshkumar P.*  
Indian Journal of Agricultural Sciences , Vol. 76 (2006) , pp. 367-369