



**ACHIVEMENTS**  
**Department of Plant Pathology**  
**N. M. College of Agriculture**  
**Navsari Agricultural University, Navsari (Gujarat)**



**A. Awards**

Sr. No.	Name of award	Year
<b>Dr. K. B. Rakholiya</b>		
1	Life Time Achievement Award in Plant Pathology in National Symposium on Sustainable Management of Pests and Diseases in Augmenting Food and Notional Security organized by NAU, Navsari	2019
2	Best Poster Award: Role of Microorganisms for Biodegradation of Pesticides. National Workshop on "Pesticide Residue: Management and Techniques for Food Safety and Security during February 25-26, 2019 at NAU, Navsari.	2019
3	Best Poster Award: V. D. Babaria, P. J. Davaria and K. B. Rakholiya (2019): Role of Microorganisms for Biodegradation of Pesticides. National Workshop on "Pesticide Residue: Management and Techniques for Food Safety and Security during February 25-26, 2019 at NAU, Navsari.	2019
4	Management of damping-off disease The Second Best Oral presentation in National Seminar on Technologies and Sustainability of Protected Cultivation for Hi-Valued Vegetable Crops at NAU, Navsari	2018
5	Bio priming of tomato seed for the management of damping-off disease The Second Best Oral presentation in National Seminar on Technologies and Sustainability of Protected Cultivation for Hi-Valued Vegetable Crops at NAU, Navsari	2018
6	PR VERMA STUDENT AWARD-2016 - Epidemiology and management of turmeric leaf blotch caused by <i>Taphrina</i> sp. XXXVIII Annual Conference and national Symposium organized by ISMPP and BCKVV, Mohanpur, West Bengal.	2016
7	The Best Thesis Award by GASS, Ahmedabad Gujarat Association for Agricultural Sciences, Integrated management of stem and pod rot of groundnut caused by <i>Sclerotium rolfsii</i> Sacc.	2011
8	Assessment of yield losses in castor due to root rot. Indian Phytopathological society best post poster presentation awards at GAU, Anand National Symposium on "Perspective in the Plant Health management" Dec. 14-16, 2010. pp. 197. AAU, Anand.	2010
<b>Dr. Priya John</b>		
1	National Award as Young Women scientist Award-(Agro-Environmental Development Society)	2020
2	Third prize in poster presentation the National Symposium on sustainable management of pests and disease in augmenting food and nutritional security, NAU, Navsari held during January, 2019 22-24.	2019
3	ICAR Best teacher of the year was for the year of NAU -2015	2015
4	Best poster presentation award in the national seminar on Role of Organic Farming in climate resilient and sustainable Agriculture held at NAU during January 9-10, 2014	2014

5	Excellent performer in the winter school sponsored by ICAR on “Diagnostics, Genomics, Implications and Integrated Management of Plant Pathogens” from November 2 to 22, 2011, at BACA, AAU, Anand	2011
6	First prize in oral presentation in National Symposium on Perspective in the plant Health Management conducted by IPS at BACA, AAU, Anand on December 14-16.	2010
<b>Dr. Lalit Mahatma</b>		
1	Best Oral Presentation Award For the presentation on the topic entitled “Antagonism on the development of seedling rot by <i>Sclerotia rolfsii</i> Sacc in chilli” at National Seminar, Navsari	2019
2	Zonal President of ISMPP for Contribution in the society, ISMPP, Udaipur	2018
3	Prof. H.C. Dube Outstanding Young Scientist Award-2015 for Overall Research activities specially on the first record of seed borne nature of Begomoviruses and Commercialization of Biofertilizers, ISMPP, Udaipur	2016
4	PP Singhal Memorial Pesticide Industries Award-2014 for presentation of Research Paper on “Role of Seed in Epidemiology of Yellow Mosaic Virus Disease in Mungbean ( <i>Vigna radiata</i> L.), ISMPP, Udaipur	2015
5	Best Teacher Award-2014 for the contribution in UG & PG Teaching in the NAU, Navsari (As per the Guidelines of ICAR award was presented), NAU, Navsari	2015
6	Executive Body Member as Immediate Vice President of ISMPP for the society and journal related activities, ISMPP, Udaipur	2014
7	Vice President of ISMPP As per the Bylaws of ISMPP, ISMPP, Udaipur	2013
8	Fellow of Indian Society of Mycology and Plant Pathology (F.I.S.M.P.P.), For the contribution in the science, ISMPP, Udaipur	2013
9	Organizing Secretary of 34 <sup>th</sup> Annual Conference and National Symposium of ISMPP, Responsibility shouldered for the Society, ISMPP, Udaipur	2013
10	Commercialization of Biofertilizers, For the production of bio fertilizers and Development of new formulation has been appreciated by our Hon PM (Sh. Narendra Modi) then Hon CM during his message ( <i>Pravachan</i> ) to the Farmers of the Gujarat General Remarks by the Hon CM	2012
11	West Zone Councilor of ISMPP Bylaws of ISMPP, ISMPP, Udaipur	2010
12	“Excellent Performer” in the Mahyco Research Centre, Jalna, For the Research & Development, Mahyco Seeds Ltd. Jalna	2007
13	“Excellent Performer” in the Mahyco Research Centre, Jalna, For the Research & Development, Mahyco Seeds Ltd. Jalna	2007
<b>Dr. Danny Tandel</b>		
1	“Eminent Scientist” Award by Agro-Environmental Development Society (AEDS), U.P.	2020
2	Best Zonal KVK Award 2015-16	2017
3	“Samaj Ratna” Award by Tandel Samaj, Gujarat Machhi Mahamandal, Gujarat	2017
4	“Man of the Match” Award in All Gujarat Staff Cricket Tournament at NAU, Navsari	2017
5	“Best Batsman” Award in All Gujarat Staff Cricket Tournament at M.K. University, Bhavnagar	2015

6	“Best Captain” Award in Cricket at Navsari Agricultural University, Navsari	2014
7	“Man of the Match” Award in All Gujarat Staff Cricket Tournament at M.S. University, Vadodara	2014
<b>Dr. Gopal B. Chopada</b>		
1	Young Scientist award (Major area of study – Plant Pathology) at National Symposium on sustainable pest management of pest and disease in augmenting food and nutritional security organized by NAU, Navsari	2019
2	P R Verma Student Award for Ph.D. Research at 38 <sup>th</sup> annual conference and national symposium organized by Indian Society of Mycology and Plant Pathology and BCKVV, Mohanpur, Nadia, West Bengal	2016
3	P R Verma Student Award for M.Sc. (Agri.) Research at Global Conference on Technological Challenges and Human Resource for Climate Smart Horticultural-Issue and Strategies organized by NAU Navsari and ASM Foundation, New Delhi in Collaboration with Confederation of Horticulture Association of India and Indian Society of Mycology and Plant Pathology	2014
4	Late Dr. H. U. Joshi Gold Plated Bronze Medal in the ninth annual convocation for securing highest overall grade point average in the subject of Plant Pathology in the faculty post-graduation studies in agriculture.	2014
5	Award of INSPIRE Fellowship sponsored by Department of Science and Technology, Ministry of India New Delhi.	2013
6	ASPEE Distributors’ Association Gold Plated Bronze Medal in the sixth annual convocation for overall grade point average in the subject of Plant Protection (Agricultural Entomology and Plant Pathology) in the faculty graduate studies in agriculture	2011
7	Vice-Chancellor’s Gold Medal in the sixth annual convocation for overall grade point average and performance in extracurricular activity in the faculty graduate studies in agriculture	2011
8	Late Shri Pramodbhai Desai, The Surat District Co-operative Bank Ltd., Gold Plated Silver medal in the sixth annual convocation for overall grade point average in the subject of Plant Protection (Agricultural Entomology and Plant Pathology) in the faculty graduate studies in agriculture	2011
9	ASPEE Agricultural Research and Development Foundation Award for Junior Fellowship sponsored by ASPEE Agricultural Research and Development Foundation, Mumbai	2010
<b>Dr. Shivangi S. Kansara</b>		
1	First prize in poster presentation at National symposium on probing beneficial microorganisms for next generation revolution organized by Indian Phytopathological Society (Western Zone)	2021
2	First prize in poster presentation at National Symposium on sustainable pest management of pest and disease in augmenting food and nutritional security	2019
3	Young Scientist award (Major area of study – Plant Pathology) at National Symposium on sustainable pest management of pest and disease in augmenting food and nutritional security organized by NAU, Navsari	2019

4	Chancellor's gold medal for securing highest grade point during Ph. D. and outstanding research for farming community	2016
5	P R Verma Best Student Award for M.Sc. (Agri.) Research at Global Conference on Technological Challenges and Human Resource for Climate Smart Horticultural-Issue and Strategies organized by NAU Navsari and ASM Foundation, New Delhi in Collaboration with Confederation of Horticulture Association of India and Indian Society of Mycology and Plant Pathology	2014
6	Award of INSPIRE Fellowship sponsored by Department of Science and Technology, Ministry of India New Delhi.	2013
7	Late Dr. H. U. Joshi Gold Plated Bronze Medal in the ninth annual convocation for securing highest overall grade point average in the subject of Plant Pathology in the faculty post-graduation studies in agriculture.	2013
<b>Mrs. M. I. Patel</b>		
1	Late Dr. H. V. Joshi Gold Plated Bronze Medal for securing highest overall grade point average in subject of Plant Pathology for the degree of M.Sc. (Agri.)	2017
<b>Mrs. Kotramma Addangadi</b>		
1	Best poster presentation award (National conference held at Navsari Agricultural University, Navsari.	2020
2	Best poster presentation award (National seminar held at Navsari Agricultural University, Navsari )	2019
3	Young Scientist award	2018
4	Third prize in poster presentation (National conference held at Bihar Agricultural University, Bihar )	2017

#### **B. Seminar/training organized:**

- 1) 34<sup>th</sup> Annual conference and National symposium on “Crop disease management and challenges” was organized by Department of Plant Pathology, N. M. College of Agriculture, NAU, Navsari and Indian Society of mycology and Plant Pathology, Udaipur during January 21-23, 2013 at NAU, Navsari.
- 2) Online National training on” Advanced in mushroom cultivation: A sustainable key to food –nutritional and employment security” jointly organized by Department of Plant Pathology, N. M. College of Agriculture, NAU, Navsari and Centre of Advanced agricultural science and technology,(CAAST), NAHEP, NAU, Navsari during September,21-22,2021.
- 3) One day webinar on “Invasive pests and disease problem in Indian Agriculture” Jointly organized by Department of Plant Pathology and Department of Entomology, N. M. College of Agriculture, NAU, Navsari during August, 5, 2021.
- 4) State level seminar on “Maintenance of quality and safety of horticultural and food crops through biological control of pests and diseases” jointly organized by Plant Protection association of Gujarat and Centre of Advanced agricultural science and technology,(CAAST), NAHEP, NAU, Navsari during December, 30, 2021.

### C. Post graduate/Ph.D. thesis

Sr. No.	Year	No. of M.Sc. (Agri.)	No. of Ph.D.	Total
1	2004	05	00	05
2	2005	00	00	00
3	2006	10	00	10
4	2007	03	00	03
5	2008	08	03	11
6	2009	06	00	06
7	2010	05	01	06
8	2011	06	02	08
9	2012	05	04	09
10	2013	08	05	13
11	2014	05	01	06
12	2015	05	02	07
13	2016	08	02	10
14	2017	15	03	18
15	2018	07	00	07
16	2019	13	02	15
17	2020	13	04	17
18	2021	01	01	02
	Total	123	30	153

### D. Research recommendations (2016-17 to 2020-21)

Sr.	Title and Recommendation	Approval Year
1.	<p><b>Effect of phosphate solubilizing microbes in wheat (<i>Triticum aestivum</i>) under saline conditions</b></p> <p>It is informed to scientific community to use native isolates <i>Bacillus subtilis</i> PSB-S (<math>1 \times 10^8</math> cfu/ml) + <i>Cladosporium herbarum</i> PSF-S (<math>1 \times 10^7</math> cfu/ml) along with 100% recommended dose of chemical phosphatic fertilizers in wheat for maximum phosphate solubilization in the soil with EC up to 3.79 (dS/m).</p>	2020
2.	<p><b>Isolation and characterization of plant growth promoting Actinomycetes from rhizospheric soil</b></p> <p>It is informed to the scientific community that <i>Streptomyces enissocaesilis</i> IB 7.2 found most potent for multiple plant growth promotion characters like nutrient solubilization, antagonistic potential, extracellular hydrolytic enzyme secretion and plant growth hormone production under <i>in vitro</i> conditions.</p>	2020

Sr.	Title and Recommendation	Approval Year
3.	<p><b>Evaluation of different substrates for cultivation of oyster mushroom</b></p> <p>The mushroom growers of South Gujarat are advised to use wheat or paddy straw for the higher production of oyster mushroom, <i>Pleurotus sajor caju</i> cultivation.</p> <p>દક્ષિણ ગુજરાતનાં મશરૂમ ઉત્પાદકોને ઢીંગરી મશરૂમના (પ્લુરોટસ સજોર કાજુ) વધુ ઉત્પાદન માટે ઘઉં અથવા ડાંગરના પરાળનો ઉપયોગ કરવા ભલામણ કરવામાં આવે છે.</p>	2019
4.	<p><b>Investigation of Phylloplane microflora of tomato and banana</b></p> <p>Phylloplane microfloras were found maximum in diseased leaves of tomato and banana as compared to healthy leaves. This investigation confirmed that among all the leaf surface mycobiota, <i>Trichoderma viride</i> was found effective against <i>Alternaria solani</i> and <i>Fusarium proliferatum</i> of tomato and <i>Colletotrichum musae</i> of banana.</p>	2019
5.	<p><b>Evaluation of different products for the supplementation of phosphorous and potash in sugarcane with graded chemical fertilizers</b></p> <p>Sugarcane growers of South Gujarat Heavy Rainfall Zone are recommended to treat the setts of sugarcane before planting with the liquid Acetobacter, PSB and KMB (<math>1 \times 10^8</math> cfu/ml) for setts treatment @300ml mixed in 300lit. water/ha for 30 minutes before sowing. Soil applications of each biofertilizers @1000 ml/ha mixed in pulverized soil, first at the time of planting and second at the time of earthing up along with 125:62.5:62.5 NPK kg/ha to get higher cane yield and simultaneously save fifty per cent chemical fertilizers.</p> <p>દક્ષિણ ગુજરાતના વધુવરસાદ ખેત આબોહવાકીય વિસ્તારના શેરડીની ખેતી કરતાં ખેડૂતોને શેરડીનીનુ વધુઉત્પાદન મેળવવા તથા ૫૦ ટકા રસાયણિક ખાતરની બચત કરવા માટે, દરેક પ્રવાહી જૈવિક ખાતરો; એસીટોબેક્ટર, પી. એસ. બી. અને કે.એમ. બી. (<math>1 \times 10^8</math> સીએફયુ પ્રતિ મીલી) ને ૩૦૦ લિટર પાણીમા મિશ્ર કરી પ્રતિ હેક્ટરે ૩૦ મિનિટ માટે વાવણી પહેલા કટકાની માવજત આપવી .તેમજ રસાયણિક ખાતર ૧૨૫.૨૬.૫.૨૬.૫ પ્રમાણે ના. ફો. પો. કિલો/ હે આપવું તેમજ દરેક જૈવિક ખાતર ૧૦૦૦ મીલીને ભરભરી માટી સાથે મિશ્ર કરી પ્રતિ હેક્ટર પ્રમાણે, પ્રથમ વાવણી સમયે ચાસમાં અને બીજી વખત પાળા ચડાવવાના સમયે જમીનમાં આપવાની ભલામણ કરવામાં આવેછે.</p>	2019

Sr.	Title and Recommendation	Approval Year
6.	<b>Evaluation of different products for the supplementation of phosphorous and potash in sugarcane with graded chemical fertilizers</b>  Five times higher concentrations (200ml prepared from 1000ml normal bio fertilizers) of phosphate solubilizing bacteria ( <i>Bacillus megatarium</i> ) and lyophilized Phosphate solubilizing bacteria (5gm prepared from 1000ml of bio fertilizer) can be used as a new formulation of bio fertilizer.	2019
7.	<b>Evaluation of different products for the supplementation of phosphorous and potash in sugarcane with graded chemical fertilizers</b>  <i>Conninghemella sp.</i> NAUB-5 fungal isolate can be used for the preparation of bio fertilizers to convert unavailable and fixed phosphorus into available for the plant in the soil for the crop growth.	2019
8.	<b>Isolation of important microorganisms in biodegrading crop residues</b> It is recommended to use <i>Bacillus alkalophilus</i> RR isolate for cellulose decomposition in rice straws as it possess highest cellulose decomposition activity and considerably lowers C:N ratio.	2018
9.	<b>Mapping the mycogeography of the macromycetes from Dangs</b> Biodiversity in fleshy fungi exists in Dangs district. A total no. of 192 fleshy fungi were identified. Out of them, 171 belong to Basidiomycotina, 15 belong to Ascomycotina and 6 from Mycetozoa. The numbers of edible fleshy fungi were 70 out of 186. The major genus of edible fungi were <i>Pleurotus</i> , <i>Ganoderma</i> , <i>Agaricus</i> , <i>Lepiota</i> , <i>Auricularia</i> , <i>Termitomyces</i> , <i>Volvariella</i> , <i>Clitocybe</i> , <i>Cantharellus</i> , <i>Fistulina</i> and <i>Calocybe</i> . From the study of various morphological characteristics, key to the fleshy fungi of Dangs is generated for the identification purpose.	2017

## E. Publications

Sr. No.	Publications	Total
1	Practical manuals	10
2	Research papers	133
3	Books/booklets	18
4	Folders	44
5	DVD films on IPDM	12