

## Biodata of Dr. J. S. S. Mohan

Name: JAMPALA SIVA SATYA MOHAN

Dept./Centre: Department of Biosciences

University: Sardar Patel University

Désignation: Professor (P)ermanent/ (T)emporary : P

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### Educational Qualifications: Examinations passed (Attested copies of all testimonials/certificates including Marks, Grade, Certificate should be attached)

Sr.No.	Examination passed	Principal subject	Subsidiary subject	Name of the university or examination Body	Total Marks with class, Grade, Exact percentage (%)	Year & Month of passing each of the examinations	No. of attempts for passing each of the examinations	Language in which studies were carried out	Remarks
1	2	3	4	5	6	7	8	9	10
1.	S.S.C.	English, Maths, Science		Board of Secondary Education, Hyderabad	410/600; First class; 68.33%	March, 1972	One	Telugu	Stood School first
2.	H.S.C.	Biological Sciences	Physical Sciences	Board of Intermediate Education, Hyderabad	385/750; Second Class;51.33%	April, 1974	One	English	
3.	F.Y. B.Sc.	Botany	Zoology & Chemistry	Andhra University, Vishakhapatnam (AP)		April, 1975	One	English	
4.	S.Y. B.Sc.	Botany	Zoology & Chemistry	Andhra University, Vishakhapatnam (AP)	312/540; Second, 57.7%	April 1976	Two	English	
5.	T.Y. B.Sc.	Botany	Zoology & Chemistry	Nagarjuna University, Nagarjuna Nagar (AP)	428/660; First, 64.84%	April 1977	One	English	
	B.Sc.	Botany	Zoology & Chemistry	Over all percentage:740/1200, First, 61.66%					
6.	M.SC. I Sem	Botany	-	Sardar Patel University	'B' Grade; 69.33%	October 1977	One	English	
	M.SC. II Sem	Botany	-	Sardar Patel	'A' Grade, 72.0%	April 1978	One	English	

				University					
	M.SC. III Sem	Botany	-	Sardar Patel University	'B' Grade; 69.33%	October 1978	One	English	
	M.SC. IV Sem	Botany	-	Sardar Patel University	'A' Grade; 73.12% Overall grade: 'B'; 71.04%	April 1979	One	English	
7.	Ph.D.	Botany	-	Sardar Patel University		Date: September 29, 1983			
	Title of the Ph.D. Thesis	Studies in Some Gentianales							
8.	Junior Research Fellowship	Botany		CSIR, New Delhi		Feb. 1980-March 1982			
9.	Senior Research Fellowship	Botany		CSIR, New Delhi		Feb. 1982- Sep. 1983			
10.	Postdoctoral Research Fellowship	Botany		CSIR, New Delhi		Oct.1983-Sep. 1984			
11.	Biotechnology National Associateship	Training in Plant Biotechnology		DBT, New Delhi		May 1992 -August 1993	Availed at Plant biotechnology Section, Bhabha Atomic Research Centre, Mumbai		
12.	Biotechnology National Associateship-Overseas Fellowship	Training in Plant Biotechnology		DBT, New Delhi		July 5, 1995 – October 5, 1995	Availed at Department of Biological Sciences, Rutgers university, Newark, U.S.A.		

**Details of Experience: (Post held in private or public employment giving details of work Teaching, laboratory, Industry etc.)**

Name of the institution or office employed	Designation (Type of work)	Date of joining	Date of leaving	Grant in Aid/SF	Full time/part time/adhoc	Basic pay& Pay scale; Pay band & A.G.P.	Reason for leaving previous employment
1	2	3	4	5	6	7	8
Sardar Patel University	Technician (Pre-Ph.D. Courses and Research)	7.2.1985	14.7.1985		adhoc	Rs.1200/- consolidated	Higher post
-do-	Technician (Pre-Ph.D. Courses and Research)	15.7.1985	28.2.1986	Grant in aid	Full Time	Rs.700/-; Rs.700-40-1020-EB-45-1200-50-1300-EB50-1600	-do-
-do-	Lecturer in Plant tissue culture (Research and P.G. Teaching)	1.3.1986	28.2.1991	-do-	Full Time	Rs.740/-; Rs.700-40-1100- 50-1300-50-1600	-do-
-do-	Lecturer (Sr. Scale) in Plant tissue culture (Research and P.G. Teaching)	1.3.1991	6.9.1998	-do-	Full Time	Scale Rs.3000-5000	-do-
-do-	Reader (CAS) in Plant tissue culture (Research and P.G. Teaching)	7.9.1998	29.6.2000	-do-	Full Time	Rs.12000/-; Rs.12000-420-18300/-	-do-
-do-	Reader in Biosciences (Plant Biotechnology) (Research and P.G. Teaching)	30-6-2000	1-1-2007	-do-	Full Time	Rs. 13,680/-; Rs.12000-420-18300	-do-

## Present Position

Name of the institution or office employed	Designation	Subject/s taught	Grant in Aid/SF	Full time/part time/adhoc	Basic pay& Pay scale; Pay band & A.G.P.	Date of appointment
Sardar Patel University, Vallabh Vidyanagar	Professor (CAS) in Biosciences (Plant Biotechnology)	Plant Biotechnology, Genetics, Plant Breeding, Gymnosperms, Pteridophytes	Grant in Aid	Full Time	Rs.16,400/-; Rs.16400-450-20900-500-22400	02.01.2007

**Area of Specialization: Plant Biotechnology, Plant Morphogenesis (In vivo & in vitro)**

**(Research interests: Plant Biotechnology, Plant reproductive biology, Plant-microbe interaction in relation to SAR activity, In vivo and in vitro morphogenesis, biodiversity conservation, identification of active principles from plants)**

## Research experience and Teaching experience:

	From	To	Years	Months	Institutions
P.G.	1.3.1986	Till date	30 <sup>+</sup>		P.G. Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
Ph.D.	13-12-1989	Till Date	26 <sup>+</sup>		-do-

## Information regarding Post-graduate teaching.

(i) Date of recognition as a post-graduate teacher: Since joined post graduate Department from the date of joining i.e.1-3-1986

(ii) Name of the university granting recognition: Sardar Patel University

## Research Guidance:

Sr.No.	Degree	No. of students working	No. of students completed
1.	M.Sc. (Dissertation)	0	48
1.	Ph.D.	5	10

## No. of students awarded Ph.D. degree:

1. V. Aparna  
“Evaluation of reproductive patterns and clonal propagation of Two rare taxa for biodiversity conservation” (July 2001) in Botany
2. Ritesh P. Vaidya  
“Studies on reproductive patterns of two tree species and micropropagation of three medicinally important plants” (February 2003) in Botany
3. Urvashi Sharma  
“Mass propagation and molecular characterization of *Chlorophytum borivillianum* Sant et Fernand”. (August 2006) in Botany
4. K. A. Geetha  
Studies on reproductive biology and karyotype analysis in *Aloe barbadensis* Mill. (September 2006) in Botany
5. Kalpeshkumar B. Ishnava  
“Assessment of Genetic Diversity using isozyme markers of three medicinal plants” (October 2006) in Botany

6. Yogeshkumar N. Mahida  
“Characterization and bioassay of active principles from plants as a source of new drug development” (October 2006) in Botany
7. Durgesh Nandini  
“Induction of systemic acquired resistance (SAR) in *Arachis hypogaea* L. (groundnut) by *Sclerotium rolfii*, *Aspergillus flavus* and *A. parasiticus* derived elicitors” (August 2011) in Biotechnology Registration: 09-01-2006
8. Purvesh B. Bharvad  
*In vitro* propagation, phytochemical analysis and antidiabetic properties of a rare medicinal herb: *Schweinfurthia papilionacea* A. Br. (August 2012) in Botany (Registration: 13-09-2006)
9. Rita Mahapatra  
“Induction of systemic acquired resistance (SAR) in *zea mays* L. by using different elicitors” (May 2014) in Biotechnology (05-01-2009)
10. Nayanika Patel  
Screening and Characterization of Indian plants for their antimicrobial activity (September 23, 2015) in Botany (Registration: 27-06-2008)

#### **No. Research students working presently:**

1. Dhananjay Patel  
Induction of systemic acquired resistance in *Cuminum cyminum* L. (cumin) against *Alternaria burnsii* and *Fusarium oxysporum f. sp. cumini* derived elicitors. (Registration: 01-07-2009) in Biotechnology (Full Time) (Thesis submitted on Jan. 2016)
2. Ali Ahmed Ben Ahmed  
Screening of medicinal plants for their antibacterial activities and characterization of bioactive compounds. (Registration: 17-11-2009) in Biotechnology (Full Time) (Synopsis submitted on 21.10.2014)
3. Dhruvi A. Amin  
Evaluation of physiological effects of biocontrol agents in some crop plants (Registration: 13.10.2011) in Biotechnology (Full Time) (Synopsis submitted)
4. Zalak M. Patel  
Evaluation of physiological effects of biocontrol agents in Banana plant (Registration: 10.10.2014) in Biotechnology (Full Time)
5. Khyati Bhatt  
Study of Reproductive patterns and propagation methods in *Pheonix dactylifera* and *P. sylvestris* ( Registration:1254, 12.12.2015) in Botany (Full Time)

#### **No. of M.Sc. Students guided for dissertations**

1. Amit Thakar (Biotechnology)  
“In vitro propagation studies of two local cultivars of rice (*Oryza sativa* L.) for germplasm conservation” (May 2000)
2. Biren Patel (Biotechnology)  
“Biological screening of various plant extracts for their antimicrobial activity: *Combretum ovalifolium* Roxb. – A case study (May 2000)
3. Sheena Patel (Biotechnology)  
“Protocol development for *in vitro* clonal propagation of *Urgenia indica* Kunth (Indian squill) (May 2001)
4. Riddhi P. Kanojia (Botany)  
“Screening of plant extracts for their potential antibacterial activity” (April 2003)

5. Preeti Kumari (Botany)  
“Development of protocol for salt tolerant cell lines in *Plantago ovata* Forsk. (Isabgol) (April 2004)
6. Sonal Sharma (Botany)  
“Spectrum of antibacterial activity possessed by petals of some plants” (April 2005)
7. Neetu Dubey (Botany)  
“Preliminary investigation on reproductive patterns of two economically important tree species” (April 2005)
8. Rohit Bhoi (Botany)  
“Leaf architecture of some Acanthaceae” (April 2006)
9. Geetha Patel (Botany)  
“Screening of bark extracts of some plants for antibacterial activity” (April 2007)
10. Mafatlal M. Kher (Botany)  
“Study of distribution and development of floral nectar in the selected Mangrove species *Aegiceras corniculatum* (L.) BLANCO” (April 2008)
11. Hitesh G. Patel (Botany)  
“Study of microsporogenesis and gamatogenesis in the selected Mangrove species *Aegiceras corniculatum* (L.) BLANCO.” (April 2008)
12. Mehul N. Patel (Botany)  
“Study of megesporogenesis and ovule development in the selected Mangrove species *Aegiceras corniculatum* (L.) BLANCO.” (April 2008)
13. Bhumi M. Patel (Biotechnology)  
“Induction of Systemic acquired resistance in *Arachis hypogaea* L. against *Aspergillus flavus* and *Aspergillus parasiticus* derived elicitors.” (April 2008)
14. Ashish R. Nayak (Biotechnology)  
“Screening of leaf and root extract of selected medicinal plants for their antimicrobial activity.” (April 2008)
15. Gunjan singh ( Industrial Biotechnology)  
“Induction of Systemic acquired resistance in *Arachis hypogaea* L. against *Sclerotium rolfsii* sacc.derived elicitors.” (April 2008)
16. Lipi Parikh (Biotechnology)  
“Media Optimization for the Production of *Sclerotium rolfsii* elicitor Protein and its Purification.” (April 2009)
17. Khushboo R. Mishra (Biotechnology)  
“Application of different Biocontrol agents as seed treatment for the induction of defence related enzymes in groundnut plants for disease resistance.” (April 2009)
18. Sandipkumar Vijay Kumar Shah (Biotechnology)  
“Plant defence induced in *in-vitro* grown Groundnut plants by fungal derived elicitors.” (April 2009)
19. Rajkumar Yadav (Botany)  
“Screening of selected aromatic plants belonging to Labiateae and Verbenaceae for their antimicrobial activity” (April 2009)
20. Manjula Nair (Botany)  
“Screening of selected medicinal plants extracts for antibacterial activity” (April 2009)
21. Varsha Patale (Botany)  
“Biochemical changes during *in vitro* organogenesis of *Schweinfurthia papilionacea* A.Br. (Scrophulariaceae)” (April 2009)
22. Puja Chaturvedi (Biotechnology)  
“Acquired Resistance in Groundnut by Using Three Fungal Culture Filtrate in combination and Two Bacterial Culture Filtrates.” (April 2010)

23. Reshma S. (Biotechnology)  
“Induction of Systemic Acquired Resistance in Cumin Plants treated with *Fusarium oxysporum f. sp. cumini*, *Bacillus subtilis* and *Trichoderma harzianum* derived Elicitors.” (April 2010)
24. Amrita Kasotia (Industrial Biotechnology)  
“Effect of different elicitors for the induction of defense related enzymes in *Zea mays* L. for disease resistance against *Aspergillus flavus* and *Aspergillus parasiticus*.” (April 2010)
25. Asmita Yeola (Biotechnology)  
“Clonal propagation of an ornamental plant: *Calathea rosea picta cv. medallion*.” (April 2010)
26. Dhruvit Bhatt (Integrated Biotechnology)  
“Evaluation of Physiological Effects of Pyraclostrobin 20% WG on *Zea mays* L.” (November 2010)
27. Shruti Shukla (Biotechnology)  
“Induction of systemic acquired resistance in Chilli (*Capsicum annum* L.) by using *Sclerotium rolfsii* fungal culture filtrate and biocontrol agents.” (April 2011)
28. Shital D. Chavda (Biotechnology)  
“Induction of Systemic Acquired Resistance in Cumin (*Cuminum cyminum* L.) by Using Fungal Culture Filtrate of *Fusarium oxysporum f. sp. cumini* and Biocontrol Agents.” (April 2011)
29. Punit Kalavadiya (Biotechnology)  
“Effects of biocontrol agents and *Sclerotium rolfsii* fungal culture filtrate in induction of defense related enzyme in Groundnut (*Arachis hypogaea* L.).” (April 2011)
30. Dhruvi Amin (Biotechnology)  
“*In vitro* propagation and antimicrobial activity of three *Calathea* species: *C. louisae*, *C. ornata* and *C. zebrine*.” (April 2011)
31. Nirali Parikh (Biotechnology)  
“Evaluation of antimicrobial activity of selected Indian medicinal crude plant extracts.” (April 2011)
32. Rani Jose (Biotechnology)  
“Screening of selected crude plant extracts for their antibacterial activity.” (April 2011)
33. Punit Chawda (Biotechnology)  
“Induction of Systemic Acquired Resistance in cumin (*Cuminum cyminum* L.) using two fungal elicitors” (April 2012)
34. Foram Prajapati (Biotechnology)  
“Physiological Effects of *Aspergillus flavus* and *Aspergillus parasiticus* fungal elicitors and Headline 20% WG in *Zea mays* L.” (April 2012)
35. Krupa Patel (Biotechnology)  
“Induction of Systemic Acquired Resistance in Groundnut (*Arachis hypogaea* L.) by Using Fungal Culture Filtrate of *Sclerotium rolfsii* and Headline 20% WG” (April 2012)
36. Megha Patel (Botany)  
“Screening of Selected Medicinal Plants Crude Extracts for Antimicrobial Activity” (April 2012)
37. Monali Goswami (Biotechnology)  
“Effect of Biocontrol Agents on F<sub>1</sub> seeds of Groundnut (*Arachis hypogaea* L.) under Polyethylene glycol Induced Stress” (April 2013)
38. Sameer Diwan (Botany)  
“Effect of Headline 20% WG on growth and reproductive pattern of *Zea mays* L.” (April 2013)
39. Krina (Microbiology)  
“Isolation and screening of plastic degrading bacteria from polyethylene bags collected at dumped yards” (April 2013)
40. Didhiti Trivedi (Biotechnology)  
“Effect of Opera183g/1 SE and Fungal Culture Filtrate of *Sclerotium rolfsii* on Groundnut (*Arachis hypogaea* L.) under Water Stress Condition” (April 2014)
41. Hansa Gondaliya (Biotechnology)  
“Induction of Systemic Acquired Resistance in Cumin Plants by Using Fungal Derived Elicitors” (April 2014)

42. Dipanki D. Patel (Biotechnology)  
“Physiological effect of elicitors in field grown *Zea mays* L. under water stress condition” (April 2014)
42. Khyati Bhatt (Botany)  
Effect of Headline 20% WG and Opera 183g/l SE on *in vitro* shoot multiplication in banana (*Musa paradisiaca* var. Grand Naine – G9) (April 2015)
43. Pragnesh Sakhiya (Botany)  
Evaluation of antimicrobial activity and phytochemical analysis of *Diospyros kaki* L. and *Holarrhena antidysenterica* (L.) Wall ex. G. Don (April 2015)
44. Vibhuti S. Chaudhari (Botany)  
Effect of Headline 20% WG and Opera 183g/l SE on *in vitro* plant regeneration of *Bacopa monnieri* L. Pennell (April 2015)
45. Vaibhai G. Patel (Biotechnology)  
Evaluation of biochemical changes in elicitor and growth inhibitor treated groundnut plants. (April 2015)
46. Diwakar Chaubey (Industrial Biotechnology)  
Effect of Headline 20% WG and Opera 183g/l SE on maize plants (*Zea mays* L.) under water stress condition (April 2015)
47. Vaishali Rajyaguru (Botany)  
Screening the antibacterial activity of some common plants known for their antidiabetic properties.(April 2016)
48. Laxmi Rajpara (Botany)  
Screening of antibacterial activity of various plant species eaten by Gray langurs. (April 2016)

#### Publications :

Sr. No.	Title of the research paper	State level/ National level/ International level	Name of the journal in which published with vol. no., page no.	Date of publication	Name of co-authors, if any
1	2	3	4	5	6
1.	Leaf dichotomy in <i>Codiaeum variegatum</i> Blume.	National	Curr. Sci. 50:462-463.	1981	J. A. Inamdar, Venigella S. Rao and <b>J. S. S. Mohan</b>
2.	Leaf architecture of Apocynaceae	National	Proc. Indian Acad. Sci. (Plant Sci.) 91:189-200.	1982	<b>J. S. S. Mohan</b> and J. A. Inamdar
3.	Effect of gibberellic acid and colchicine on the vessel elements of <i>Gossypium hirsutum</i> L. var. <i>varalakshmi</i> .	International	Ceylon J. Sci. 15: 71-83.	1982	Venigella S. Rao, <b>J. S. S. Mohan</b> and J. A. Inamdar.
4.	Studies on the leaf architecture of Oleaceae with a note on the systematic position of the genus <i>Nyctanthes</i> .	International	Feddes Repertorium, 94:193-204.	1983	<b>J. S. S. Mohan</b> and J. A. Inamdar
5.	Leaf venation studies in some Asclepiadaceae.	International	Phytomorphology. 34:36-45.	1984	<b>J. S. S. Mohan</b> and J. A. Inamdar
6.	Extrafloral nectaries of <i>Holarrhena antidysenterica</i> (L.) Wall ex. G. Don: Development, ultrastructure and	National	Trends in Plant Research pp. 137-148.	1985	J. A. Inamdar, <b>J. S. S. Mohan</b> and R. B. Subramanian

	secretion.				
7.	Studies in some Loganiaceae and Buddlejaceae.	National	JOPAM 2: 25-32.	1985	<b>J. S. S. Mohan</b> and J. A. Inamdar
8.	Stomatal Classifications – A Review.	International	Feddes Repertorium, 97: 147-160.	1986	J. A. Inamdar, <b>J. S. S. Mohan</b> and R. B. Subramanian
9.	Ultrstructure and secretion of extrafloral nectaries of <i>Plumeria rubra L.</i>	International	Ann. Bot. 57: 189-201.	1986	<b>J. S. S. Mohan</b> and J. A. Inamdar
10.	Structure and ontogeny of stomata in some Oleaceae.	International	Feddes Repertorium, 97:291-302.	1986	J. A. Inamdar, R. C. Patel and <b>J. S. S. Mohan</b>
11.	Studies on the resin glands of <i>Azadirachta indica</i> . A. Juss.,	International	Ann. Bot. 58: 425-429.	1986	J. A. Inamdar, R. B. Subramanian and <b>J. S. S. Mohan</b>
12.	Histomorphological studies in some Aristolochiaceae.	International	Feddes Repertorium. 100: 257-269.	1989	J. A. Inamdar, Sr. Avita and <b>J. S. S. Mohan</b>
13.	Foliar venation patterns in some Gentianaeae and Menyanthaceae.	National	Indian Bot. Contactor 6: 77-81.	1989	<b>J. S. S. Mohan</b> , M. Nataraj and J. A. Inamdar
14.	Optical microscopic studies on the development and secretion of resin glands in some Apocynaceae.	National	Proc. Indian Acad. Sci. (Plant Sci.) 99: 423-429.	1989	R. B. Subramanian, V. Murugan, <b>J. S. S. Mohan</b> and J. A. Inamdar
15.	Somatic embryogenesis from callus cultures of <i>Crataeva nurvala</i> Buch Ham.	International	Phytomorphology, 40: 319-322.	1990	<b>J. A. Inamdar, M. Nataraj, J. S. S. Mohan and R. B. Subramanian</b>
16.	Ultrastructural responses of <i>Cajanus cajan</i> (L.) Millsp. Leaves to cement kiln dust pollution..	International	Phytomorphology, 41: 75-82.	1991	M. S. V. Prasad, <b>J. S. S. Mohan</b> , R. B. Subramanian and J. A. Inamdar
17.	A low cost strategy for <i>in vitro</i> propagation of banana.	National	Curr. Sci. 68(6) 646-649.	1995	<b>T. R. Ganapati, J. S. S. Mohan, P. Suprasanna, V. A. Bapat and P. S. Rao</b>
18.	A one step method for <i>in vitro</i> plantlet formation from shoots of <i>Dalbergia sissoo</i> .	National	Plant structure and morphogenesis, pp. 97-104.	1997	<b>J. S. S. Mohan, Sharad Bhadane and P. S. Rao</b>
19.	Somatic embryogenesis and plant regeneration in <i>Tribulus terrestris L.</i>	International	Phytomorphology 50: 307-311.	2000	<b>J. S. S. Mohan, V. Vijaya Kumar, V. Aparna and Ritesh P. Vaidya,</b>
20.	Plant defense induced in <i>in vitro</i> propagated banana ( <i>Musa paradisiaca</i> ) plantlets by <i>Fusarium</i> derived elicitors.	National	Indian J. Exp. Biol. 42: 728-731.	2004	<b>Miral Patel, I. L. Kothari and J. S. S. Mohan</b>

21.	<i>In vitro</i> clonal propagation of <i>Urgenia indica</i> (Roxb.) Kunth,	National	Prajna: Journal of Pure and Applied Sciences, 13: 21-28	2005	<b>J. S. S. Mohan, Sheena Patel and Urvashi Sharma</b>
22.	Occurrence of a rare medicinal plant - <i>Schweinfurthia papilionacea</i> A. Br. (Scrophulariaceae) in Gujarat	National	J. Econ. Taxon. Bot. 29: 192-197.	2005	Kalpesh Ishnava, V. Rama Rao, <b>J. S. S. Mohan</b> , I. L. Kothari and F. M. Parabia
23.	<i>In vitro</i> clonal propagation of <i>Chlorophytum borivilianum</i> Sant. et. Fernand. , a rare medicinal herb from immature floral buds along with inflorescence axis.	National	Indian J. Exp. Biology, 44:77-82.	2006	<b>Urvashi Sharma and J. S. S. Mohan</b>
24.	Reduction of vitrification in <i>in vitro</i> raised shoots of <i>Chlorophytum borivilianum</i> Sant. et Fernand. A rare potent medicinal herb	National	Indian J. Exp. Biol. 44: 499-505.	2006.	<b>Urvashi Sharma and J. S. S. Mohan</b>
25.	Screening of Indian plant extracts for antibacterial activity.	International	Pharmaceutical Biology. 44(8): 1-5.	2006	Yogesh Mahida and <b>J. S. S. Mohan</b>
26.	Spectrum of antibacterial activity possessed by petal extracts of some Indian plants.	National	J. Medicinal and Aromatic Plant species. J. Medicinal and Aromatic Plants Sciences. 28: 557-561.	2006	<b>J. S. S. Mohan</b> , Sonal Sharma, Kalpesh Ishnava, and Yogesh Mahida
27.	Effect of plant growth regulators on <i>in vitro</i> morphogenesis of <i>Leptadenia reticulata</i> (Retz.) W. & A. from nodal explants.	National	Curr. Sci. 92: 1290-1293.	2007	<b>Farzin M. Parabia, Bharat Gami, I. L. Kothari, J. S. S. Mohan and M. H. Parabia.</b>
28.	<i>In vitro</i> propagation of <i>Dendrobium microbulbon</i> A. Rich – A rare ethnomedicinal herb.	National	Indian J. Biotechnology 6:381-384.	2007	<b>Urvashi Sharma, V. Rama Rao, J. S. S. Mohan and A. S. Reddy</b>
29.	Screening of plants for their potential antimicrobial activity against <i>Staphylococcus</i> sp. and <i>Salmonella</i> sp.	National	Natural Product Radiance 6 (4):301-305.	2007	Yogesh Mahida and <b>J. S. S. Mohan.</b>
30.	Intraspecific isozymes variation in <i>Commiphora wightii</i> (Arn.) Bhandari: A traditional hypocholesteremic medicinal shrub from Gujarat, India.	International	Journal of Herbs, Species and Medicinal Plants, 13:25-40.	2007	Ishnava Kalpesh B and <b>J. S. S. Mohan</b>
31.	Study of genetic Diversity of <i>Tribulus terrestris</i> L.(Zygophyllaceae)- Medicinal herb, from Gujarat, India.	National	J. Medicinal and Aromatic Plant Sciences.30: 49-55.	2008	Ishnava Kalpesh B and <b>J.S.S.Mohan</b>
32.	Plant diversity and its present status in little rann of Kachchh, Gujarat, India.	National	J. Econ. Taxon. Bot. 32: 302-310.	2008	Ishnava Kalpesh, V. Rama Rao, M. H. Parabia, I. L. Kothari and <b>J.S.S. Mohan.</b>
33.	Quantitative profiling of induced phenols in different	National	Prajna- Journal of Pure and Applied	2009	Durgesh Nandini and <b>J.</b>

	varieties of <i>Arachis hypogaea</i> L. by using fungal culture filtrate of <i>Sclerotium rolfsii</i> Sacc.		Sciences 17: 17-22.		<b>S. S. Mohan</b>
34.	Induction of systemic acquired resistance in <i>Arachis hypogaea</i> L. by <i>Sclerotium rolfsii</i> derived elicitors.	International	Journal of Phytopathology 158: 594-600.	2010	Durgesh Nandini, <b>J. S. S. Mohan</b> and Gunjan Singh
35.	<i>In vitro</i> assessments of antibacterial potential of <i>Commiphora wightii</i> (Arn.) Bhandari. gum extract.	International	Journal of Pharmacognosy and Phytotherapy 2(7): 91-96.	2010	Kalpesh B. Ishnava, Yogesh N. Mahida and <b>J. S. S. Mohan.</b>
36.	Ecologically important and life supporting plants of little Rann of Kachchh, Gujarat.	International	Journal of Ecology and the Natural Environment 3(2): 33-38.	2011	Kalpesh Ishnava, V. Ramarao, <b>J. S. S. Mohan</b> and I. L. Kothari.
37.	Antihyperlipaemic and antioxidant effects of aqueous and methanolic leaf extracts of <i>Schweinfurthia papilionacea</i> A. Br. in streptozotocin induced diabetes.	International	Pharmacologyonline 2: 312 – 321	2011	Purvesh B. Bharvad, <b>J. S. S. Mohan</b> , Rupal A. Vasant, A. V. R. L. Narasimhacharya.
38.	Screening of crude root extracts of some indian plants for their antibacterial activity	National	Prajna 19: 14-18	2011	Purvesh B. Bharvad, <b>Ashish R. Nayak, Naynika K. Patel J. S. S. Mohan,</b>
39.	<i>In vitro</i> propagation of rare medicinal herb, <i>Schweinfurthia papilionacea</i> A. Br.	National	Indian Journal of Biotechnology 11:476-480	2012	Purvesh B. Bharvad, <b>J. S. S. Mohan,</b>
40.	Induction of systemic acquired resistance in <i>Zea mays</i> L. by <i>Aspergillus flavus</i> and <i>A. parasiticus</i> derived elicitors.	International	Archives of Phytopathology and plant protection 48 (2):120-134	2015	Rita Mahapatra, <b>Siva Satya Mohan Jampala</b> and Dhananjay R. Patel
41.	Induced systemic resistance in groundnut by foliar application of Headline (Pyraclostrobin 20% WG)	International	Archives of Phytopathology and plant protection doi.org/10.1080/03235408.2015.1076107	2015	Dhruti Amin, Siva Satya Mohan Jampala Dhananjay R. Patel

**Articles:**

Sr. No.	Title of the article	State level/National level/international level	Name of the journal/daily in which published	Date of publication	Name of co-authors, if any
1.	Sandal wood cultivation – its merits and demerits.	State level	Annadata (Telugu monthly farmer's magazine) pp. 13-14.	1995	<b>J. S. S. Mohan</b>
2.	<i>In vitro</i> clonal multiplication of safed musli ( <i>Chlorophytum borivilianum</i> Sant et Fernand)	State Level	National Research Center on Medicinal and Aromatic Plants News Letter 2: 3	<b>2000</b>	<b>J. S. S. Mohan</b>
3.	Cultivation of Safed musli - A rare and threatened medicinal plant.	State level	Gujarat Samachar News Paper, Krushi Vishwa Magazine, pp. 4.	2002	<b>J. S. S. Mohan</b> and Kalpesh Ishnava

**Details of Seminar/Conference/Workshop/winter school/symposium/summer camp, refresher course, orientation programme etc. attended.**

Sr.No.	Nature of participation	State level/ National level/ International level	Organized by	Duration		No. of days
				From	To	
1	2	3	4	5	6	7
1	Participated	Short term training course on “Techniques for plant regeneration from aseptic cultures”	Department of Biochemistry, Indian Institute of Science, Bangalore	Dec. 1, 1986	Dec. 6, 1986	Six
2	Attended	Refresher course in Botany (Cytogenetics)	Department of Botany, Patna University, Patna	Jan. 23, 1989.	Feb. 11, 1989.	Twenty
3	Participated and Presented	National Symposium on “Current Trends in Biological Research”	Department of Biosciences, Sardar Patel University, V.V. Nagar	Dec. 1, 1989	Dec. 3, 1989	Three
4	Participated	Computer appreciation programme	G. H. Patel Computer Center, Sardar Patel University, Vallabh Vidyanagar	May 11, 1990	June 16, 1990	Thirty
5	Attended	Orientation Course	Academic Staff College, Pondicherry University	Nov. 7, 1990	Dec. 4, 1990	Four Weeks
6	Participated	National Symposium on “Genetics and Biotechnology for Crop Improvement”	University of Hyderabad, Hyderabad and Indian Society of Genetics and Plant Breeding and APIDC	Feb. 8, 1991	Feb. 10, 1991	Three
7	Attended	Training Course on “Plant tissue culture and genetic engineering techniques”	Biomedical group, Bhabha Atomic Research Center, Mumbai	March 31, 1991	April 20, 1991	Twenty one days
8	Participated	Annual Session of Indian Science Congress	M. S. University of Baroda, Baroda	Jan. 3, 1992	Jan. 8, 1992	Six
9	Participated and Presented	National symposium on “Frontiers in Plant Science Research”	Nawab Shah Alam Khan Center of Post-graduate Studies & Research, Anwarul Uloom College, (Osmania University), Hyderabad	Feb.13, 1994.	Feb. 14, 1994.	Two
10	Participated and Presented	Pre-proposal in Brain storming session on “Reproductive Biology”	University of Jammu, Jammu	March 22, 1994	March 24, 1994	Three
11	Participated	Inter-disciplinary seminar on “Exploring R&D potentials between universities and industries”	Forum for Inter-disciplinary activities, Sardar Patel University,	1994.		one

12	Participated	Inter-disciplinary seminar on “New challenges in the 21 <sup>st</sup> Century: Priorities and foci for higher education”	Forum for Inter-disciplinary activities, Sardar Patel University,	1994.		one
13	Participated and Presented	National symposium (UGC-DRS) on “Contemporary studies on Plant Structure and Morphogenesis: In vivo and in vitro morphogenesis	Department of Biosciences, Sardar Patel University, Oct. 11-12, 1996.	Oct. 11, 1996	Oct. 12, 1996.	Two
14	Participated and Presented	National symposium on emerging trends in Plant Tissue Culture and Molecular Biology & XX Meeting of Plant Tissue Culture Association (India)	Department of Genetics, Osmania University, Hyderabad Jan. 29-31, 1997.	Jan. 31, 1997	Jan. 31, 1997.	Three
15	Participated	XXII Gujarat Science Congress	V.P. Science College, Vallabh Vidyanagar	Feb. 11, 1997	Feb. 12, 1997	Two
16	Participated and Presented	National Seminar-cum-workshop on “Prospectives of research in Medicinal Plants”	Anoopam Mission, Mogri, Gujarat Agricultural University, Anand Campus, Anand, Sardar Patel University, Vallabh Vidyanagar and South Gujarat University, Surat	March 1, 1997	March 3, 1997	Three
17	Participated and Presented	Project report in Mid-term review committee meeting for evaluation of the progress of the UGC major research project	U.G.C. office, New Delhi	March 11, 1997.	March 11, 1997.	One
18	Attended	Refresher Course in Botany	Department of Botany, Gujarat University under the auspices of Academic staff college, Gujarat University, Ahmedabad	March 14, 1997	April 3, 1997	Twenty one days
19	Participated	Training Programme on “Techniques in exploration and collection of Agri-Biodiversity”	National Bureau of Plant Genetic Resources (NBPGR), New Delhi under INDO-USAID PGR project	Sept.20, 1997.	Sept. 29, 1997.	Ten
20	Participated	World Bank funded National Agricultural Technology Project (NATP) meeting to present departmental research proposal for funding	National Bureau of Plant Genetic Resources, New Delhi	Oct. 14, 1997.	Oct. 15, 1997	Two
21	Participated and Presented	National Seminar-cum-Workshop on “Plant Morphogenesis”	Department of Biosciences, Sardar Patel University	Dec. 29, 1997	Dec. 30, 1997	Two
22	Participated	Seminar on “Strategies for Sustainable Agriculture”	Biotechnology Interest Group, Baroda and Department of Biosciences, Sardar Patel University,	Feb. 8, 1998	Feb. 8, 1998	One
23	Participated	Seminar on “Medicinal Plants”	Research center for Medicinal and Aromatic Plants, Gujarat Agricultural University, Anand Campus, Anand,.	June 20, 1998	June 20, 1998	One
24	Participated	National seminar on “Medicinal plants resources development”	Gujarat Ayurved University, Jamnagar	Oct. 4, 1998	Oct. 5, 1998	Two
25	Participated	International seminar on “Conservation of tropical species, communities & ecosystems”	Tropical Botanic Garden and Research Institute, Palode, Thiruvananthapuram, Kerala	Dec. 2, 1998	Dec. 6, 1998	Five
26	Participated	National symposium on “Plant morphogenesis: Biochemical and molecular approach”	UGC-SAP, New Delhi	Dec. 21, 1998	Dec. 22, 1998	Two
27	Participated	National level “Jai Vigyan National Science & Technology Mission on conservation of Biodiversity (PGR) First consultation-cum-workshop” on Plant – Biodiversity (NATP)	NBPGR, New Delhi	Aug. 24, 1999	Aug. 25, 1999	Two

28	Participated	National Seminar on the theme "Youth against hunger"	National Research Center for medicinal and aromatic plants, Boriavi	Oct. 16, 1999	Oct. 16, 1999	One
29	Participated	National seminar on "Gujarat and its environment and challenges"	N. V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar	Oct. 19, 1999	Oct. 19, 1999	One
30	Participated	National symposium on "Mycology – its relevance in the next millennium"	Mycological Society of India and Sardar Patel University	Dec. 18, 1999	Dec. 21, 1999	Four
31	Participated	Symposium on "Recent advances in Biochemistry"	Society of Biological Chemists, Vallabh Vidyanagar Chapter	Jan. 22, 2000	Jan. 22, 2000	One
32	Participated	Zonal group meeting for cooperators on Conservation of Agro-biodiversity	NBPGR Regional research station, Jodhpur	June 20, 2000	June 20, 2000	One
33	Participated	Seminar on Bio-resource wealth of Gujarat: Its conservation and sustainable utilization	N.V.Patel College of Pure & Applied Sciences and SICART, Vallabh Vidyanagar	Nov. 19, 2000	Nov. 19, 2000	One
34	Participated	National symposium on "Sustainable environment: Achievements and future prospects"	Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar	Jan. 4, 2001	Jan. 6, 2001	Three
35	Participated and Presented	Workshop on the progress of the work in second Zonal group meeting for cooperators under NATP project on "Conservation of Agro-biodiversity in arid region"	NBPGR regional station, Jodhpur	Feb. 3, 2001	Feb. 3, 2001	One
36	Participated and Presented	Workshop on work done during the year 2000-2001 in 2-day Zonal workshop on "Conservation of Agro-biodiversity in arid region" for cooperators under NATP project	Central Institute of Arid Horticulture, Bikaner	Feb. 28, 2001.	March 1, 2001	Two
37	Participated and Presented	International Symposium on "Drugs Discovery and Process Research"	Shivaji University, Kolhapur	23 Jan., 2003	25 Jan., 2003	Three
38	Participated and Presented	National symposium on "Environmental Biotechnology and Biodiversity conservation"	Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar under UGC-SAP programme	Jan. 31, 2003	Feb. 1, 2003	Two
39	Participated	International conference on Medicinal and Aromatic plants	Swami Ramanand Tirtha Institute of Socio-economic research & National Integration, Hyderabad	March 15, 2003	March 17, 2003	Three
40	Participated	workshop on 'Techniques in Molecular Biology'	Bangalore Genei	Dec. 10, 2003	Dec. 10, 2003	One
41	Participated	National Science Day	Department of Sciences, Sardar Patel University	Feb.26, 2004	Feb.27, 2004	Two
42	Participated and Presented papers	National symposium on "Recent trends in plant sciences"	Dept of Botany, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh	October 29, 2004.	October 31, 2004.	Three
43	Participated	Gujarat Science Congress	Gujarat Science Technology and Sardar Patel University, Vallabh Vidyanagar	Feb.5, 2005		one
44	Participated	Workshop on "Space and GIS technology applications"	Indian Society of Geomatics – AC, in association with Department of Physics, Sardar Patel University, Vallabh Vidyanagar	February, 2005		one
45	Participated and Presented ; Treasurer	3 <sup>rd</sup> BRSI convention & International symposium on "Exploring horizons in Biotechnology : A global venture"	Department of Biosciences, Sardar patel university and Charutar Vidyamandal, Vallabh Vidyanagar	November 2, 2006	November 4, 2006	Three
46	Participated	DBT Brainstorming session on 'Biodiversity conservation through Biotechnological interventions'	Tropical Botanic Garden & Research Institute, Palode, Thiruvananthapuram	January 10, 2007	January 11, 2007	Two
47	Participated	Seminar on "Problems and prospects of the present	Examination reforms unit of the Sardar Patel	Feb. 2007		One

		examination system”	University, Vallabh Vidyanagar			
48	Participated	National Seminar on “New Horizons on Biological Sciences”	N.V. Patel Puried & Applied Science College, Charutar Vidya Mandal , Vallabh Vidyanagar	Sep. 23, 2007		One
49	Participated	National Science Day celebrations	Community Science Centre, Sardar Patel University and Department of Biosciences	Feb. 27, 2008	Feb. 28, 2008	Two
50	Participated	“State Level Seminar on Current Trends in Environmental Sciences”	Dept. of Biological and Environmental Sciences, N.V.Patel College of Pure and Applied Sciences, V.V.Nagar	Sep. 20, 2008.		One
51	Participated	National Conference on “Taxonomy Teaching and Research: The Relevance in the National Context”	Shri R .K. Parikh Arts and Science College, Petlad, Gujarat	Sep. 27, 2008.		One
52	Functioned as an Organizing Secretary	“Workshop on Electron Microscopy”	Department of Bisociences, Sardar Patel University & SICART, Charutar Vidyamandal, Vallabh Vidyanagar	Jan. 19, 2009	Jan.24, 2009	Six
53	Participated	National seminar on “Emerging Areas in Plant Sciences”	Dept. of Botany, The M.S. University of Baroda, Vadodara- Gujarat	Feb. 22, 2009		One
54	Participated & Treasurer	National Conference on “Frontiers in Biological Sciences”	Dept. of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat,	Feb. 27, 2009	Feb. 28, 2009	Two
55	Functioned as an Organizing Secretary	“Workshop on Electron Microscopy”	Department of Bisociences, Sardar Patel University & SICART, Charutar Vidyamandal, Vallabh Vidyanagar	Dec. 14, 2009	Jan.19, 2009	Six
56	Participated and presented posters	National Conference on Biodiversity of Medicinal and Aromatic Plants: Collection, Characterization and Utilization Organized by Medicinal and Aromatic Plants Association of India	NRC, Boriavi, Anand	November 24, 2010	November 25, 2010	Two
57	Functioned as an Organizing Secretary	“Workshop on Electron Microscopy”	Department of Bisociences, Sardar Patel University & SICART, Charutar Vidyamandal, Vallabh Vidyanagar	December 18, 2010	December, 23, 2010.	Six
58	Participated and presented	National Symposium on Trends in Biological Sciences	B.R.D. School of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat, India	January 28, 2011	January 29, 2011	Two
59	Participated and presented	Top Ciencia forum for sustainable innovation in agriculture	BASF crop protection Asia Pacific, Hong Kong, China	December 20, 2011		
60	Participated	Zonal seminar on Physiological & molecular interventions on sustainable crop productivity under changing climatic conditions	Indian Society for Plant Physiology(ISPP), Pusa, New Delhi and Medicinal & Aromatic Plants Association of India (MAPAI), Boriavi, Anand	January 12, 2012		
61	Participated and presented the progress of research work	Top Ciencia forum for sustainable innovation in agriculture	BASF, Bali, Indonesia	18 December 2012	19 December 2012	two
62	Participated and presented the progress of research work	Top Ciencia symposium	BASF India Ltd. Mumbai	April 1, 2014	3 April 2014	three
63	Participated and presented the progress of research work	BASF Top Ciencia symposium	Beijing, China	March 30, 2015	April 2, 2015	four
64	Presented poster	International conference on The New Horizons in Biotechnology	CSIR and Biotech Research Society of India, Trivandrum, Kerala, India.	November 22, 2015	November 25, 2015	four
65	Presented Poster	International conference on recent trends in applied	Shri A. N. Patel Post Graduate Institute, Anand,	December	December	three

		sciences: Building institutional and industrial avenues	Gujarat, India	10, 2015	12, 2015	
66	Presented Poster	National Symposium on Exploring Advances in Biological Sciences	Post Graduate Department of Biosciences, Sardar Patel University in association with Community Science Center, Vallabh Vidhyanagar, Gujarat, India	March 5, 2016		

#### Awards for best research paper/essay/article

Sr.No.	Name of the award	State level/ National level/ International level	Awarding body	Date
1.	Second prize in Poster presentation at 3 <sup>rd</sup> convention of BRSI and International conference on “Exploring Horizons in Biotechnology: A Global Venture” for the poster “Antibacterial activity of guggul gum from <i>Commiphora wightii</i> (Arn.) Bhandari.”	International Conference	Department of Biosciences, Sardar Patel University and Charutar Vidyamandal, Vallabh Vidyanagar	November 2 - 4, 2006
2.	Best Paper award for the paper entitled “ <i>In vitro</i> clonal propagation of <i>Chlorophytum borivilianum</i> Sant et Fernand., a rare medicinal herb from immature floral buds along with inflorescence axis.”	State level	“Hari Ohm Ashram Prerit Bhaikaka Inter-University Smark Trust” instituted at Sardar Patel University	For the year 2006-2007
3.	Best Paper award in plant sciences for the research paper ‘Intraspecific isozymes variation in <i>Commiphora wightii</i> (Arn.) Bhandari: A traditional hypocholesteremic medicinal shrub from Gujarat, India’	State level	“Dr. C. K. Shah Award for the best adjudged research paper in Plant Sciences” instituted at Sardar Patel University	For the year 2007-2008
4.	Best Paper award for the paper entitled “Effect of plant growth regulators on <i>in vitro</i> morphogenesis of <i>Leptadenia reticulata</i> (Retz.) W. & A. from nodal explants.”	State level	“Hari Ohm Ashram Prerit Bhaikaka Inter-University Smark Trust” instituted at Sardar Patel University	For the year 2008-2009
5.	First prize in Oral presentation at National seminar on “Emerging Areas in Plant Sciences” for the paper “ <i>In vitro</i> germination and shoot multiplication of a rare medicinal herb species: <i>Schweinfurthia papilionacea</i> A.Br. (Scrophulariaceae)”	National Seminar	Dept. of Botany , The M.S. University of Baroda, Vadodara Gujarat, India	Feb. 22, 2009.
6.	First prize in poster presentation at National symposium on exploring advances in Biological sciences for the paper “Induction of systemic acquired resistance (SAR) by different elicitors on <i>Zea mays</i> L. for disease resistance and higher yield.	National symposium	P.G. department of biosciences, Sardar Patel university (UGC-CAS) in association with C.C Patel Community Science Centre, Sardar Patel university	March 5, 2016.

#### Give details of Research project under taken

Sr.No.	Type of project	Title of the research project	Funding agency	Sanctioned amount(Rs.)	Date of commencement	Date of completion
1.	Minor	Generation of know how for certain commercially important forest tree species using tissue culture techniques (PI)	U.G.C.	4000.00	April 1991	March 1992
2.	Major	Screening and generation of effective propagation methods for certain forest tree species of Gujarat state utilizing tissue culture methods for biodiversity conservation programme. (PI)	U.G.C.	352000.00	Oct. 1994	Sep.1997
3.	Major	Evaluation of reproductive patterns of some rare taxa of Gujarat state in	DST	577875.00	April 1996	March 1999

		relation to biodiversity conservation (PI)				
4.	Major (Departmental Project)	Plant Morphogenesis (Departmental Project) (CO-PI)	UGC-DSA	3500000.00	April 1994	March 1999
5.	Major	Development of protocols for micropropagation of some indigenous forest tree species (PI)	Gujarat Forest Department	233200.00	April 1997	Dec. 1999
6.	Major	Collection, Characterization and ex-situ conservation of medicinal plants of Gujarat (Co-PI)	NATP-PB (ICAR)	1050000.00	Oct. 1999	Dec. 2003
7.	Minor	Development of protocols for clonal propagation of safed musli ( <i>Chlorophytum borivilianum</i> ) for its possible commercial exploitation (PI)	UGC	15000.00	April 2000	March 2001
8.	Major (Departmental Project)	Plant morphogenesis, Biodiversity conservation and sustainable environment (Co-PI)	UGC-SAP	7000000.00	April 2000	March 2005
9.	Major	Biology of Ecologically important and Life supporting plants of Little Rann of Kutchch (Co-PI) Jointly with Dr. I. L. Kothari	Ministry of Environment & Forests	525000.00	July 2002	June 2005
10.	Major	Mass multiplication and molecular characterization of two important medicinal plants (Co-PI) jointly with NRC M&AP, Boriavi and Dr. I. L. Kothari	ICAR - Adhoc	1075000.00	Oct. 2003	Sept. 2006
11.	Major (Departmental Project)	Bioresources Technology (Co-PI)	UGC-DSA (Phase II)	5000000.00	April 2007 (Ongoing)	March 2012
12.	Minor	Evaluation of Physiological Effects of Pyraclostrobin 20% WG in <i>Zea mays</i> L. (PI)	BASF India Pvt. Ltd., Mumbai	110000.00	July 2010 – March 2011 (Completed)	March 2011
13	Major	Induction of systemic acquired resistance to control blight and wilt in <i>Cuminum cyminum</i> L. by using <i>Alternaria burnsii</i> and <i>Fusarium oxysporum</i> f. sp. <i>cumini</i> derived elicitors. (PI)	UGC	961800.00	February 2011 (completed)	January 2014
14	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Corn. (PI)	BASF India Pvt. Ltd.	139700.00	July 2011 (Completed)	March 2012
15	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Groundnut. (PI)	BASF India Pvt. Ltd.	139700.00	July 2011 (Completed)	March 2012
16	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Corn. (PI)	BASF India Pvt. Ltd.	198000.00	April 2012 (completed)	March 2013
17	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Groundnut. (PI)	BASF India Pvt. Ltd.	198000.00	April 2012 (completed)	March 2013
18	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Corn. (PI)	BASF India Pvt. Ltd.	242000.00	April 2013 (completed)	March 2014
19	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Groundnut. (PI)	BASF India Pvt. Ltd.	242000.00	April 2013 (completed)	March 2014
20	Minor	Evaluation of physiological effects of Pyraclostrobin 20% WG on Groundnut. (PI)	BASF India Pvt. Ltd.	275000.00	April 2014 (completed)	March 2015
21	Minor	Evaluation of physiological effects of Opera 183g/l SE on Banana. (PI)	BASF India Pvt. Ltd.	275000.00	September 2014 (Completed)	August 2015

22	Minor	“Evaluating the BASF fungicide package of practices: Seed treatment and foliar spray in groundnut for physiological effects and yield”	BASF India Pvt. Ltd.	275000.00	April 2015 (on going)	March 2016
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**Visit to other institutes/countries for academic purpose**

Sr.No.	Institutions/country visited	Sponsoring agency	Purpose	Duration
1.	Plant biotechnology Section, Bhabha Atomic Research Centre, Mumbai	Department of Biotechnology, Ministry of Science & Technology, New Delhi	To Avail Biotechnology National Associateship	May 1992 to August 1993 (One Year Three Months)
2.	Department of Biological Sciences, Rutgers university, Newark, U.S.A.	Department of Biotechnology, Ministry of Science & Technology, New Delhi	To Avail Biotechnology National Associateship-Overseas Fellowship	July 5, 1995 – October 5, 1995 (Three Months)

**Name of professional associations in which you have held important positions or have been active member or fellowship of academic societies/others**

Sr.No.	Designation	Body/ institutions	From	To	Duration
1.	Life member	Indian Science Congress Association, Kolkata	1996 onwards		14 years
2.	Member	The International Association for Plant Tissue Culture	1988	1996	9 years
3.	Member	The International Association of Plant Morphologists, New Delhi	1984, 1990	2000	11 years
4.	Life member	Medicinal and Aromatic Plants Association of India	2009 onwards		1 year
5.	Member	Board of studies in Biosciences, Sardar Patel University	1989 onwards		21 years
6.	Member	Board of studies in Botany, Bhavnagar University, Bhavnagar	2008	2011	3 years
7.	Member	Faculty of Science, Sardar Patel University	2008	2014	
8.	Member	Board of Studies in Botany, M.S. University, Baroda	2011	2014	
9.	Member	Faculty of Science, M.S. University, Baroda	2011	2014	
10.	Member	Accreditation Panel for the Certification of Tissue Culture Production Facilities and accreditation of Test Laboratories under the National Certification System for Tissue Culture Raised Plants (NCS-TCP)	2016 onwards		

**Any other relevant information not included above (Participation in curricular and co-curricular activities, NCC/ NSS/ Sports/ Cultural activities etc.**

1. In-charge, Internal examinations (1997-2001; 2003-2011)
2. Member, syllabi framing committee for courses of B.Sc. and M.Sc. in Botany, Biotechnology, Environmental Sciences, Genetics and Integrated Biotechnology courses of Sardar Patel University
3. Ex-officio teacher-in-charge, Sardar Patel University Biological Society (SPUBS) (1989-90; 1990-91; 1991-92; 2004-05 onwards)
4. Has been accompanying students to their visits to the industries or other research institutes, Botanical trips
5. Has been associated with Sardar Patel University Teachers Association as an active member
6. Has been assisting the university in conducting undergraduate and post graduate university exams by taking up the responsibilities of general proof reader, senior press supervisor, observer, flying squad member, examiner, paper setter and also moderator
7. Tree labeling has been carried in the university premises for creating awareness to the inmates and visitors of the campus. This is being extended to the other parts of the township
8. Member, Convocation Committee to take care of the arrangements during the convocation.
9. Edited proceeding volumes of the national symposium/seminar

**Contribution to the department** (Please state in at above the development in ten lines your contribution to the department)

The sustenance of good academic and research work as well as the growth of the department demands a team work approach and I have been associated in several such teams formed by the respective heads of the department from time to time. The main and noteworthy contributions of mine as follows:

#### **Academic:**

- Has involved in establishment and strengthening of PLANT BIOTECHNOLOGY LAB in the department
- Assisted the department in organizing National Seminars/ symposia/Refresher course/workshop as a organizing secretary/member, as a treasurer and also dealing with seminar correspondence, preparation of abstract or proceeding volumes and working out the schedule and its implementation during seminar days in close coordination with other committee members.
- Has assisted the coordinator, UGC-DSA program (1994-1999) as a member of advisory committee and also as a member in UGC-SAP (2000-2005), COSIST (2001-2006) programs for their successful implementation.
- Made linkages between the University as well as Department and Global Technology Mission, Santokpura through memorandum of understanding for establishing tissue culture lab for commercial propagation of plantation crops at Santokpura.
- Has been actively involved in assisting the department in successful conduction of M.Sc. Biotechnology entrance test as well as in the admission process.
- Has assisted the department as one of the committee member in departmental committees (Examinations, Instruments purchase, chemicals and glassware purchase and Botanical Garden Etc.)

#### **Teaching & Research**

- Has involved in framing the syllabi for M.Sc. Botany and Biotechnology courses following the UGC-CSIR NET syllabus and also as per the guidelines received from the UGC and introduced to cater the present day needs of the students.
- Has also modified and introduced several practicals as a step towards under taking the project work by M.Sc. students independently in the fourth semester
- Has created several research facilities in the form of instruments from the grants of the sponsored research projects being undertaken.  
(Zeiss Stemi2000 binocular microscope with photographic attachment, laminar air flow with glass bead sterilizer (specially designed), Incubator shaker, Illuminated racks etc.)
- Has contributed to the successful running of UGC-DSA, UGC-SAP, UGC-COSIST programs as an active member
- Has collaborated with other colleagues in preparing, implementation and successful completion of the joint research proposals
- Has collaborated as a Co-investigator in a joint research proposal with National Research Centre on Medicinal & Aromatic Plants Boriavi