
Dr. Jigna G. Tank
Assistant Professor

Date of joining : As Assistant Professor- 16- 06- 2014 (Direct Recruitment)

Subjects in M.Sc, M.Phil. & Ph.D Teaching :

M.Sc. (Botany) M.Phil (Plant Biotechnology & Genetic Engineering) Ph.D (Botany)	Plant Anatomy, Embryology, Population Genetics, Biodiversity, Bioinformatics, Plant Growth and Development, Plant Resource Utilization, Environmental Sciences, Molecular biology and Genetics, Bioinformatics, Analytical Techniques
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Research Expertise :

Sr. No.	Thrust Area	Brief Outline of Research
1 2 3 4	Molecular cell signaling Plant defense mechanisms Biofuel Production Bioresource utilization	<ul style="list-style-type: none">• Effect of cell growth regulators on cell division, differentiation and endoreduplication• Histochemical localization of phytohormones, phytochemicals, proteins, DNA and RNA molecules in plant cells• Isolation and identification of plant defensive and adaptive proteins• Antimicrobial, larvicidal and insecticidal activity of plant proteins.• Standardization of solid and liquid biofuel production techniques using plant material• Biopolymer isolation and its potential use in pharmaceutical and Biotechnological industries

M.Sc. Dissertation Guided

Sr. No.	Year	Name of the Student	Dissertation Title
1	2015	Kuldipkumar N. Makavana	Genetic diversity analysis of <i>Arachis hypogaea</i> L. cultivars using ISSR markers
2	2016	Divya Detroja	Anatomical observations of alkaloids and phenols accumulation in <i>Gymnospora montana</i> (Roth) Benth. leaf

3	2016	Reema Bloch (as Co-Guide)	Identification of β -sitosterol from leaves of <i>Salvadora persica</i> L.
4.	2017	Jatin Solanki	Molecular identification of tree species of Saurashtra University Campus
5.	2017	Ravi Viradiya	Optimization of biodiesel production from <i>Celastrus paniculatus</i> seed oil
6.	2017	Maharshi Thaker	Histochemical localization of secondary metabolites in plant stems
7.	2018	Kuldeep D. Shekhaliya	Changes in growth physiology of <i>Vigna unguiculata</i> in hydroponic system
8.	2018	Sunita K. Solanki	Acacia species: a probable feedstock for biodiesel production
9.	2018	Pravina M. Zala	Localization and characterization of secondary metabolites in some arid zone plants
10	2019	Sagar Asodariya	SicDNA mediated regulation of cell cycle in root tip cells of <i>Allium cepa</i>
11	2019	Payal Korant	Fluorophores localization and identification in stem tissue of <i>Jathropha curcas</i>
12	2019	Hiral Sojitra	Influence of phytohormones on embryonic and vegetative growth of <i>Caesalpinia crista</i>
13	2019	Divya Akbari	Larvicidal activity of gum methanol extracts against <i>Aedes aegypti</i> mosquito larvae
14	2020	Nensi Chauhan	Homology modeling and Protein-Protein interaction network construction for subunits of expansin protein
15	2020	Vibhuti R. Parmar	Homology modeling and construction of Protein Protein interaction network for Glycinin protein subunits
16	2020	Mansi A. Ambaliya	In silico studies on function of clavata proteins in maintenance of cell division and differentiation process in plant during organogenesis
17	2020	Praful P. Parmar	Construction of protein-protein interaction network regulating flowering phenomenon in plants by Flowering Locus C protein
18	2020	Nirali Baravadiya	Homology modeling and Protein-Protein interaction network construction for Della proteins
19	2020	Pranavkumar V. Kathad	In silico studies on Protein- Protein interaction network regulating RUB-Cullin Pathway in plants
20	2020	Meera Jadav	Docking of GABA receptor proteins with insecticidal volatile compounds of gum resin
21	2021	Asmita J. Vala	Preparation of polysaccharide beads from natural polymer of macroalgae species
22	2021	Bhakti P. Dav	Antibacterial activity of cysteine protease isolated from seeds of <i>Caesalpinia crista</i> against human pathogens

23	2021	Daya M. Raiyani	Isolation and characterization of pectin from citrus fruits
24	2021	Meghna D. Taraviya	Preparation of pH sensitive crosslinked hydrogels from <i>Caesalpinia</i> endosperm polysaccharides for controlled delivery of Insulin
25	2021	Rutvika K. Vala	Standardization of Biodiesel production from non-edible seeds of Fabaceae family
26	2021	Vasavi H. Bhoraniya	<i>In silico</i> studies on interaction of proteins regulating vernalization process in <i>Arabidopsis thaliana</i>

M.Phil. Dissertation Guided

Sr. No.	Year	Name of the Student	Dissertation Title
1	2019-2020	Ms. Hiral P. Goswami	Study on Economically Important Secondary metabolites from marine algae
2	2018-2020	Mr. Ravi V. Viradiya	Influence of phytohormones on growth physiology of <i>Momordica charantia</i> Linn.

Ph.D. Thesis Guided

Sr. No.	Year	Name of the Student	Thesis Title
1	2019	Ms. Sima V. Joshi	A study on effects of calcium on some plants of semi – arid regions
2	2022	Varshabahen V. Patale	Morphological, Anatomical and Physiochemical assessment of mangroves at Diu, The Union Territory of India

Ph.D. Scholars Working:

Sr. No.	Year of Registration	Name of the Student	Research Topic Title
1	2017	Mr. Rajesh Dabhi	Study of plant population and soil at selected areas of kutch district
2	2019	Ms. Sheena Alooparampil	Studies on economically important compounds from four leguminous plants
3	2020	Mr. Vibhakar Chowdary	Molecular level studies on plant secretary products and its benefits
4	2020	Ms. Kavya Tanna	Vis-A Vis Assessment of Urban vegetation and Urban environment via Geospatial techniques

5	2021	Ms. Mehta Palak	Comprehensive physiological, biochemical and proteomic analysis to reveal salinity adaptation mechanisms of some halophytes.
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Research Projects:

Sr No	Title of the Project	Funding Agency	Period of Operation	Grant / Amount Mobilized (Rs. InLakh)	Completed / On-going
1	Biofuel production from forest seeds	University Grants Commission (UGC)	2 years	6 lakhs	Completed
2	IQAC Golden Jubilee Project	IQAC Saurashtra University	2 years	1 lakh	Completed
3	DBT sponsored Sristi-BIRAC Grass Root Innovation Project (Jatin Solanki)	Sristi-BIRAC	1 year	1 lakh	Completed
4	DBT sponsored Sristi-BIRAC Grass Root Innovation Project (Ravi Viradiya)	Sristi-BIRAC	1 year	1 lakh	Completed
5	DBT-Microscopy for all (Foldscope) Project	DBT	1 Year	8 lakh	Completed

Conference grants:

Sr No.	Title of Conference	Funding Agency	Grant received (Rs.)
1	National Conference on Innovations in Biological Sciences	Gujarat State Biotechnology Mission, Department of Science and Technology, Government of Gujarat, Gandhinagar, India	79000/-

Publications in Peer-Reviewed Journals

Sr. No.	Publications	Impact Factor
	2007	
1.	Tank JG Pandya RV and Thaker VS (2007) Changes in Indole-acetic acid and zeatin levels during endoreduplication J. Sci. Agric. Res. 68(242):59-70 (ISSN: 0354-5695)	-
	2011	
2.	Tank JG and Thaker VS (2011) Cyclin dependent kinases and their role in regulation of	

	plant cell cycle, <i>Biologia Plantarum</i> 55(2) :201-212 (ISSN: 0006-3134)	1.400
	2012	
3.	Tank JG and Thaker VS (2012) Changes in DNA and RNA level with endoreduplication can be determined using α -naphthyl red dye. <i>CIBtech Journal of Bioprotocols</i> Vol. 1 (1) pp. 23-31 (ISSN: 2319-3840)	-
4.	Madnani DM, Tank JG , Pandya RV and Thaker VS (2012) A rapid, sensitive and Economic Method for Isolation of High Quality DNA from <i>Butea Monosperma</i> as Compared to Commercial Kits <i>CIBtech Journal of Bioprotocols</i> Vol. 1 (1) pp. 32-36 (ISSN: 2319-3840)	-
	2013	
5.	Nakum N, Tank JG, Pandya R V and Thaker VS (2013) Influence of phytohormones on growth and development of internodes of <i>Vitis quadrangularis</i> . <i>Plant Archives</i> Vol. 13 (1) pp. 469-476. (ISSN:0972-5210)	0.070
6.	Tank JG, Pandya RV and Thaker VS (2013) Factors Regulating Cell Division in eukaryotic cells, the <i>General science Journal</i> pp 1-16. (ISSN: 1916-5382)	-
7.	Tank JG, Pandya RV and Thaker VS (2013) Evolution and utilization of polymerase chain reaction in scientific world, the <i>General science Journal</i> pp 1-20 (ISSN: 1916-5382)	-
	2014	
8.	Tank JG , Pandya RV and Thaker VS (2014) Phytohormones in regulation of cell division and endoreduplication process in plant cell cycle. <i>RSC Advances</i> DOI:10.1039/C3RA45367G. (ISSN 2046-2069)	3.070
9.	Tank JG and Thaker VS (2014) Systemic Control of Cell Division and Endoreduplication by NAA and BAP by Modulating CDKs in Root Tip Cells of <i>Allium cepa</i> . <i>BioMed Res Int</i> Volume 2014, Article ID 453707	2.140
10.	Dudhatra PJ, Solanki KG, Tank JG , Sheth BP and Thaker VS (2014) Haplotype Studies in Bacterial Species Surviving in Different Areas. <i>Journal of Pure and Applied Microbiology</i> 8(4): 3345-3355 (ISSN 0973-7510)	0.073
11.	Solanki KG, Dudhatra PJ, Sheth BP, Tank JG and Thaker VS (2014) Nucleotide diversity in <i>16s rdnagene</i> in bacterial species surviving in different areas. <i>Plant Archives</i> 14:1035-1046 (ISSN:0972-5210)	0.070
	2015	
12.	Tank JG , Pandya RV and Thaker VS (2015) IAA and Zeatin controls cell division and endoreduplication process in quiescent center cells of <i>Allium cepa</i> root <i>Ind. J Plant Physiol.</i> 20(2), pp.124-129. Doi 10.1007/s40502-015-0148-5 (ISSN: 0019-5502)	0.810
13.	Tank JG Quality certification and prevention of adulteration in plant parts used as source of medicines. <i>World Journal of Pharmaceutical Sciences.</i> 3(4): 687-688 (ISSN (Print): 2321-3310; ISSN (Online): 2321-3086).	0.453
	2016	
14.	Rakhashiya, P. M., Patel, P. P., Sheth, B. P., Tank, J. G. , & Thaker, V. S. (2016). Detection of virulence and pathogenicity genes in selected phytopathovars.	0.560

	Archives of Phytopathology and Plant Protection, 49(1-4), 64-73. https://doi.org/10.1080/03235408.2016.1157378 iF: 0.56 Citations :04	
15.	Tank, J. G., Pandya, R. V., & Thaker, V. S. (2017). Changes in radical scavenging activity of normal, endoreduplicated and depolyploid root tip cells of <i>Allium cepa</i> . <i>Saudi Journal of Biological Sciences</i> , 24(7), 1538. https://doi.org/10.1016/j.sjbs.2016.08.009 IF: 2.82 Citations: 02	2.870
2017		
16.	Reema, B., Detroja, D., Pandya, R. V., & Tank, J. G. (2017). <i>Salvadora persica</i> : a potential source for treatment of hypercholesterolemia. <i>Plant Archives</i> , 17(2), 955-960. IF: 0.07	0.070
2019		
17.	Solanki, S. K., Pandya, R. V., & Tank, J. G. (2019). <i>Acacia species.</i> : a probable feedstock for biodiesel production. <i>Plant Archives</i> , 19(1), 1926-1931. IF: 0.07	0.070
18.	Viradiya, R. V., Pandya, R. V., & Tank, J. G. (2019). Biodiesel Production from Highly Viscous Seed Oils. <i>Journal of Biofuels</i> , 10(2), 51-63.	-
2020		
19.	Divya B Detroja, Reema A Bloch, Rohan V. Pandya, Jigna G. Tank (2020) Alkaloids and phenols accumulation in growing leaf cells of <i>Gymnospora montana</i> (roth) benth., <i>Biochem. Cell. Arch.</i> Vol. 20, No. 1, pp. 301-308, 2020	0.03
2021		
20.	Patale, V., & Tank, J. G. (2021). Ecological assessment of heavy metals accumulation in sediments and leaves of <i>Avicennia marina</i> along the Diu coast of the northeast Arabian Sea. <i>Oceanologia</i> .	2.427
2022		
21.	Patale, V. V., & Tank, J. G. (2022). Evaluation of the edaphic and water properties of Diu coast (Saurashtra, Gujarat, India) in relation to the population density of <i>Avicennia marina</i> . <i>Applied Water Science</i> , 12(4), 1-16.	3.874

Book chapters Published

1	Kuldeep D. Shekhaliya, Jigna G. Tank, Rohan V. Pandya (2019) Foldscope: A primary tool for detection of bioactive compounds in plant cells, in, <i>Foldscope and its application</i> , Ed. Arun Dev Sharma, Published by National Press Associates, New Delhi, ISBN 978-93-85835-68-1, pp. 105-116.
2	Tank, J. G., & Pandya, R. V. (2021). A Comparative Account on Biodiesel Production from Forest Seeds. In <i>Biofuel from Microbes and Plants</i> (pp. 129-164). CRC Press.
3	Chowdhary, V., Alooparampil, S., Pandya, R. V., & Tank, J. G. (2021). Physiological Function of Phenolic Compounds in Plant Defense System. In <i>Phenolic Compounds-</i>

	Chemistry, Synthesis, Diversity, Non-Conventional Industrial, Pharmaceutical and Therapeutic Applications. IntechOpen.
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Articles in Conference Proceedings

1	Ravi V. Viradiya, Rohan V. Pandya and Jigna G. Tank (2019) Phytohormonal consequences on morphogenesis of <i>Momordica charantia</i> Lin. Plantin Proceedings of the 2nd International Conference on Exploring the Role of Present Day Biology in Social and Sustainable Development, Ed. Sebastian Vadakan, Sudeshna Menon, Nandini Ghosh Published by Archers & Elevators Publishing House Bangalore, ISBN: 978-93-88805-76-6, pp. 45-53.
2	Kuldeep Shekhaliya, Pravina M. Zala, Rohan V. Pandya, Jigna G. Tank (2019) Characterization of fluropores which emit autofluorescence in plant cells in Proceedings of the 2nd International Conference on Exploring the Role of Present Day Biology in Social and Sustainable Development, Ed. Sebastian Vadakan, Sudeshna Menon, Nandini Ghosh Published by Archers & Elevators Publishing House Bangalore, ISBN: 978-93-88805-76-6, pp. 76-84.
3	Payal L. Korant and Dr. Jigna G. Tank (2019) FLUROPHORES LOCALIZATION AND IDENTIFICATION IN STEM TISSUE OF JATHROPHA CURCUS. Proceedings of 11 th National Science Symposium (February 03, 2019) Organized by Christ College, Rajkot. ISBN: 9788192952147.
4	Sojitra, H., & Tank, J. G. (2020). Influence of Phytohormones on Embryonic and Vegetative Growth of <i>Caesalpinia Crista</i> . Available at SSRN 3554195. Proceedings of National conference on Innovations in Biological Sciences. Organized by UGC-CAS Department of Biosciences, Saurashtra University, Rajkot. https://dx.doi.org/10.2139/ssrn.3554195
5	Shekhaliya, K., & Tank, J. G. (2020). Changes in Growth Physiology of <i>Vigna unguiculata</i> in Hydroponic System. Available at SSRN 3565920. Proceedings of National conference on Innovations in Biological Sciences. Organized by UGC-CAS Department of Biosciences, Saurashtra University, Rajkot. https://dx.doi.org/10.2139/ssrn.3565920

Papers Presented in Conferences

Sr. No.	Details of Conference / Seminar / Symposium / Workshop	National / International
2007		
1	Jigna G. Tank, Rohan V. Pandya & Vrinda S. Thaker. Presented poster “Changes in indole-acetic acid and zeatin level during endoreduplication” at National Conference on Plant Physiology, organized by Indian Society for Plant Physiology, Dapoli, Maharashtra, November, 2007 (Awarded 1 st prize)	National
2008		
1	Jigna G. Tank, Rohan V. Pandya & Vrinda S. Thaker. Presented poster “Role of cell growth inhibitors and promoters in cell division and elongation – <i>Allium cepa</i> L. A model system. at National Symposium on Advances in	National

	Biotechnology Research for Crop Improvement and Food Security, organized by S.V.B.P. University of Agriculture and Technology, Meerut (U.P.), February, 2008	
2	Jigna G. Tank, Rohan V. Pandya & Vrinda S. Thaker. Presented Poster “Recovery from Endoreduplication by BAP” at National Golden Jubilee Conference on Plant Physiology, organized by Indian Society for Plant Physiology, Delhi, November, 2008	National
2009		
1	Dipak M. Madnani, Jigna G. Tank & Vrinda S. Thaker. Presented Poster “A rapid, sensitive and economical method for isolation of high quality DNA from <i>Buteamonosperma</i> L. as compared to commercial kits” at National symposium on Recent Trends in Cellular Research, Organized by Department of Chemistry (Biochemistry), Saurashtra University, Rajkot, March, 2009	National
2012		
1	Jigna G. Tank and Vrinda S. Thaker. Presented poster “ Interaction between endoreduplication and antioxidants: two different defense mechanisms used by plant cells during adaptation to abiotic stress” at International Conference on Advances in Biological Sciences, Organized by Department of Biotechnology, Microbiology and inter University center for Biosciences, Kannur University, Kerala, March 2012	International
2013		
1	Purvi M. Rakhshiya, Pooja P. Patel, Bhavisha P. Sheth, Jigna G. Tank and Vrinda S. Thaker. Presented Poster ”Expression profiling of virulence in pathogenicity genes of phytopathovars” at International conference on advances in Biotechnology and Bioinformatics & X Convention of The Biotech Research Society, India, Organized by Dr. D.Y. Patil Vidyapeeth, Pune, November 2013	International
2014		
1	Kuldip N. Makavana, Jay V. Thaker, Jigna G. Tank and Vrinda S. Thaker. Presented Poster “DNA isolation protocol from five different varieties of <i>Arachis hypogaea</i> L” at UGC Sponsored One Day National Seminar On Recent Advances in Biochemical Research Organized by Department of Biochemistry, Saurashtra University, Rajkot – 360 005, Gujarat, India	National
2016		
1	Divya Detroja and Jigna G. Tank, presented poster “Anatomical observation of alkaloids synthesis and accumulation in <i>Gymnosporia montana</i> (Roth) benth leaf. at DBT Sponsored National level Symposium on Advancement in Science and Technology, organized by Shree M. N. Virani Science college, Rajkot, Gujarat, India	National

	Reema Bloch and Jigna G. Tank, presented poster “Histochemical profiling of leaf phytosterols of <i>Salvadora persica L.</i> at DBT Sponsored National level Symposium on Advancement in Science and Technology, organized by Shree M. N. Virani Science college, Rajkot, Gujarat, India	
2	Reema Bloch and Jigna G. Tank, presented poster “Identification of β -sitosterol from leaves of <i>Salvadora persica l.</i> at 9 th National Level Science Symposium-2016 on Recent trends in Science and Technology, organized by Christ College, Rajkot, Gujarat, India	National
	2017	
1	Jigna G. Tank, presented poster “Optimization of kinematic viscosity, cloud and pour point in biodiesel produced from non-edible seed oil. at Gujarat Science Congress-2017 on Responsibilities of academia and academies in creating sustainable, competitive and ethical societies : Challenges and opportunities, Jointly organized by Gujarat Energy Research & Management Institute (GERMI), Pandit Deendayal Petroleum University, Institute of Seismological Research, Gujarat Science Academy, Ahmedabad, Gujarat, India	National
2	Ravi. V. Viradiya, Jigna. G. Tank, Rohan. V. Pandya presented poster Optimization of Biodiesel production from Celastrus paniculatus seed oil, at Gujarat Science congress-2017 on Responsibilities of academia and academies in creating sustainable, competitive and ethical societies : Challenges and opportunities, Jointly organized by Gujarat Energy Research & Management Institute (GERMI), Pandit Deendayal Petroleum University, Institute of Seismological Research, Gujarat Science Academy, Ahmedabad, Gujarat, India	National
3	Maharshi. J. Thaker, Jigna. G. Tank and Rohan. V. Pandya, presented poster Secondary metabolites provides a unique identity to differentiated cells, at Gujarat Science congress-2017 on Responsibilities of academia and academies in creating sustainable, competitive and ethical societies : Challenges and opportunities, Jointly organized by Gujarat Energy Research & Management Institute (GERMI), Pandit Deendayal Petroleum University, Institute of Seismological Research, Gujarat Science Academy, Ahmedabad, Gujarat, India	National
4	Jatin H. Solanki, Jigna. G. Tank and Rohan. V. Pandya, presented poster Identification of Urban trees without floral characters: An application of DNA Barcoding, at Gujarat Science congress-2017 on Responsibilities of academia and academies in creating sustainable, competitive and ethical societies : Challenges and opportunities, Jointly organized by Gujarat Energy Research & Management Institute (GERMI), Pandit Deendayal Petroleum University, Institute of Seismological Research, Gujarat Science Academy, Ahmedabad, Gujarat, India	National
5	Maharshi. J. Thaker, Jigna. G. Tank and Rohan. V. Pandya, presented poster “Histochemical localization of secondary metabolites in plant stems. at International Science Symposium-2017 on Recent Trends in Science and Technology, organized by Christ College, Rajkot, Gujarat, India	International

6	Ravi V. Viradiya, Rohan. V. Pandya, Jigna. G. Tank, presented poster “Standardization of transesterification process form non-edible seed oils. at International Science Symposium-2017 on Recent trends in Science and Technology, organized by Christ College, Rajkot, Gujarat, India	International
7	Jatin. H. Solanki, Jigna. G. Tank and Rohan. V. Pandya, presented poster “Assessing urban trees diversity in Munjka region of Rajkot, Gujarat, India. at International Science Symposium-2017 on Recent trends in Science and Technology, organized by Christ College, Rajkot, Gujarat, India	International
8	Ravi V. Viradiya and Jigna. G. Tank, presented poster “Standardization of transesterification process form highly viscous seed oils. at UGC-CAS National Conference on Biodiversity and Bioresource Utilization 2017. Organized by Department of Biosciences (UGC-Centre of Advanced Study) Saurashtra University Rajkot – 360 005, Gujarat State, India.	National
2018		
1	Kuldeep D. Shekhaliya, Rohan V. Pandya and Jigna G. Tank, presented poster on “Macropropagation of <i>Vinga unguiculata</i> in cellulose sponge based hydroponic system” at National conference on Recent innovations in science '18. Organized by School of Science, RK University, Rajkot.	National
2	Pravina M. Zala, Rohan. V. Pandya and Jigna. G. Tank, presented poster on “Localization and characterixation of secondary metabolites in stem tissue of <i>Prosopis julifera</i> and <i>Prosopis cineraria</i> ” at National conference on Recent innovations in science '18. Organized by School of Science, RK University, Rajkot.	National
3	Sunita. K. Solanki, Rohan. V. Pandya, Jigna. G. Tank, presented poster on “Optimization of biodiesel production from <i>Acacia auriculiformis</i> ” at National conference on Recent innovations in science '18. Organized by School of Science, RK University, Rajkot.	National
4	Ravi V. Viradiya and Jigna G. Tank, Oral presentation on ”Characterization of secondary metabolites from <i>Boswellia serrata</i> gum” at National conference on Recent innovations in science '18. Organized by School of Science, RK University, Rajkot.	National
2019		
1	Divya M. Akbari, Rohan V. Pandya and Jigna G. Tank, Poster Presentation on “ Larvicidal activity of gum methanol extracts against <i>Aedes aegypti</i> mosquito larvae” at International Conference on Present Day Biology: A Bastion for Social and Sustainable Development, 4-5th January 2019, St. Xavier’s College (Autonomous), Ahemdabad	International
2	Hiral H. Sojitra, Rohan V. Pandya and Jigna G. Tank, Poster Presentation on “ INFLUENCE OF PHYTOHORMONES ON EMBRYONIC AND VEGETATIVE GROWTH OF CAESALPINIA CRISTA” at International Conference on Present Day Biology: A Bastion for Social and Sustainable Development, 4-5th January 2019, St. Xavier’s College (Autonomous), Ahemdabad	International
3	Sagar R. Asodariya, Rohan V. Pandya and Jigna G. Tank, Poster Presentation on “SILENT CDNA MEDIATED REGULATION OF CELL CYCLE IN	International

	APICAL MERISTEMATIC CELLS OF ALLIUM CEPA” at International Conference on Present Day Biology: A Bastion for Social and Sustainable Development, 4-5th January 2019, St. Xavier’s College (Autonomous), Ahemdabad	
4	Kuldeep D. Shekhaliya, Rohan V. Pandya and Jigna G. Tank, Oral Presentation on “Histochemical localization: A preliminary way to authenticate use of plant parts for human ailments” at International Conference on Present Day Biology: A Bastion for Social and Sustainable Development, 4-5th January 2019, St. Xavier’s College (Autonomous), Ahemdabad	International
5	Ravi V. Viradiya, Rohan V. Pandya and Jigna G. Tank, Oral Presentation on “Phytohormonal consequences on morphogenesis of Momordica charantia lin. Plant” at International Conference on Present Day Biology: A Bastion for Social and Sustainable Development, 4-5th January 2019, St. Xavier’s College (Autonomous), Ahemdabad	International
6	Payal L. Korant, Rohan V. Pandya and Jigna G. Tank, Poster Presentation on “ IDENTIFICATION OF FLUROPHORES WHICH PROVIDE AUTOFLUORESCENCE IN STEM TISSUE OF JATHROPHA CURCUS” at 11th Science Symposium 2019 on Recent Trends in Science and Technology, 3rd February 2019, Christ College, Rajkot.	National
7	Kuldeep D. Shekhaliya, Rohan V. Pandya and Jigna G. Tank, Oral Presentation on “ Detection of secondary metabolites in plant cells using Foldscope” at National Conference on Advances in Microscopy and Foldscope, 15-16 th March 2019, at Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004 (India)	National
8	Ravi V. Viradiya, Rohan V. Pandya and Jigna G. Tank, Oral Presentation on “Phytohormonal consequences during pattern formation in plant tissues” at National Conference on Advances in Microscopy and Foldscope, 15-16th March 2019, at Department of Biotechnology, Motilal Nehru National Institute of Technology Allahabad, Prayagraj-211004 (India)	National
	2020	
1	Hiral Goswami & Jigna G. Tank, Poster Presentation on “Macro and Micro elements analysis from seaweeds” at National Conference on Innovations in Biological Sciences, 10th January 2020, at UGC-CAS Department of Biosciences, Saurashtra University, Rajkot-360005, Gujarat, India.	National
2	R. S. DABHI and J. G. TANK, Poster Presentation on “RECENT SCENARIO OF DESERTIFICATION NEAR AREA OF ADESAR IN KUTCH DISTRICT OF GUJARAT STATE” at National Conference on Innovations in Biological Sciences, 10th January 2020, at UGC-CAS Department of Biosciences, Saurashtra University, Rajkot-360005, Gujarat, India.	National
	2021	
1	Rajesh Dabhi and J G. Tank, poster presentation on “Changes in diversity of herbaceous plants with seasonal changes in Mandavi region of Kutch.” at International Science Symposium-2021 on Recent trends in Science and Technology, organized by Christ College, Rajkot, Gujarat in April 2021 in Research Scholar section	International

2	Varsha Patale and J. G. Tank , Poster presentation on “Assessment of water quality at natural habitat of <i>Avicennia marina</i> at coastal region of Diu.” at International Science Symposium-2021 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in April 2021 in Research Scholar section	International
3	Praful Parmar and J. G. Tank , Poster presentation on “Construction of Protein Protein interaction network regulating flowering phenomenon in plants by Flowering Locus C protein” at International Science Symposium-2021 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in April 2021 in PG Section	International
2022		
1	Sheena Alooparampil and J. G. Tank , Oral presentation on “Comparative analysis of galactomannan isolated from six varieties of <i>Cyamopsis tetragonoloba</i> L. for its potential to form hydrogel.” at International Science Symposium-2022 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in January 2022 in Research Scholar section	International
2	Vasavi Bhoraniya and J. G. Tank , Oral presentation on “in silico studies on interaction of Proteins regulating vernalization process in <i>Arabidopsis thaliana</i> ” at International Science Symposium-2022 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in January 2022 in PG Section	International
3	Kavya Tanna, S. K. Teraiya and J. G. Tank , Oral Presentation on “Comparative analysis of Vegetation and Urbanization at Porbandar city of Saurashtra through geospatial techniques” at International e-conference on Mitigating Contemporary Environmental issues by Sustainable Approaches (ICMCESA-2022) , organized by Acharya Narendra Dev College, University of New Delhi, in February 2022 in Research scholars Section	International

Conference Organized:

Sr. No.	Details	National / International
2014		
1	Jigna G. Tank, Member of organizing committee, in UGC-CAS National Conference on Biodiversity and Bioresource Utilization 2015. Organized by Department of Biosciences (UGC - Centre of Advanced Study) Saurashtra University Rajkot – 360 005, Gujarat, India.	National
2017		
2	Jigna G. Tank, Member of Organizing Committee, in UGC-CAS National Conference on Biodiversity and Bioresource Utilization 2017. Organized by	National

	Department of Biosciences (UGC - Centre of Advanced Study) Saurashtra University Rajkot – 360 005, Gujarat, India.	
2020		
1	Jigna G. Tank, Organizing Secretary, in National Conference on Innovations in Biological Sciences, 10 th January 2020, organized by UGC-CAS Department of Biosciences, Saurashtra University, Rajkot-360005, Gujarat, India.	National

Workshop Organized:

Sr. No	Name of the Organizer	Workshop Details (Title of Conference Organizers, Place of the conference)	Date, Year
1	Dr. Jigna G. Tank	National Workshop on Use of Foldscope as Research Tool, at UGC-CAS Department of Biosciences, Saurashtra University, Rajkot, Gujarat (India)	18th Sep. 2018
2	Dr. Jigna G. Tank	Hands on training on use of Foldscope for M.SC and M. Phil students, at UGC-CAS Department of Biosciences, Saurashtra University, Rajkot, Gujarat (India)	26th June 2018
3	Dr. Jigna G. Tank	Training to School teachers in Teacher's induction programme on use of Foldscope	10th September 2018
4	Dr. Jigna G. Tank	Training for Government Primary School students on use of Foldscope	16th & 17th September 2018
5	Dr. Jigna G. Tank	Teacher's training programme on use of foldscope	4 th February 2019
6	Dr. Jigna G. Tank	Hands on training to MSc Sem-II students of Christ college, Rajkot on Fluorescent microscopy	

Awards & Recognitions:

Category	Year	Awards
Own	2007	Awarded 1 st prize at National Conference on Plant Physiology , organized by Indian Society for Plant Physiology, Dapoli, Maharashtra in November, 2007 for presentation of research poster "Changes in indole-acetic acid and zeatin level during endoreduplication"

Student (Divya Detroja)	2016	Awarded 1stprize at DBT Sponsored National level Symposium on Advancement in Science and Technology , organized by Shree M. N. Virani Science college, Rajkot, Gujarat in January 2016 for presentation of research poster “Anatomical observation of alkaloids synthesis and accumulation in <i>Gymnosporia montana</i> (Roth) benth leaf.
Student (Reema Bloch)	2016	Awarded 1stprize at 9th National Level Science Symposium-2016 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in February 2016 for presentation of research poster “Identification of β -sitosterol from leaves of <i>Salvadora persica</i> L.
Student (Ravi Viradiya)	2017	Grass root innovations appreciation award from Sristi-BIRAC-DBT
Student (Jatin Solanki)	2017	Grass root innovations appreciation award from Sristi-BIRAC-DBT
Student (Rajesh Dabhi)	2020	Awarded 2nd Prize at at National Conference on Innovations in Biological Sciences, organized by UGC-CAS Department of Biosciences, Saurashtra University, Rajkot-360005, Gujarat, India on10th January 2020 for presentation of research poster “RECENT SCENARIO OF DESERTIFICATION NEAR AREA OF ADESAR IN KUTCH DISTRICT OF GUJARAT STATE”
Student (Rajesh Dabhi)	2021	Awarded 1stprize at International Science Symposium-2021 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in April 2021 for Best poster presentation of research in Research Scholar section “Changes in diversity of herbaceous plants with seasonal changes in Mandavi region of Kutch.”
Student (Varsha V. Patale)	2021	Awarded 2stprize at International Science Symposium-2021 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in April 2021 for Best poster presentation of research in Research Scholar section “Assessment of water quality at natural habitat of <i>Avicennia marina</i> at coastal region of Diu.”
Student (Praful Parmar)	2021	Awarded 1stprize at International Science Symposium-2021 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in April 2021 for Best poster presentation of research in PG Section“Construction of Protein Protein interaction network regulating flowering phenomenon in plants by Flowering Locus C protein.”
Student (Sheena Jobin Alooparampil)	2022	Awarded 2stprize at International Science Symposium-2022 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in January 2022 for Oral presentation of research in Research Scholar section “Comparative analysis of galactomannan isolated from six varieties of <i>Cyamopsis tetragonoloba</i> L. for its potential to form hydrogel.”
Student (Vasvi Bhoraniya)	2022	Awarded 1stprize at International Science Symposium-2022 on Recent trends in Science and Technology , organized by Christ College, Rajkot, Gujarat in January 2022 for Oral presentation of research in PG Section “in

		silico studies on interaction of Proteins regulating vernalization process in <i>Arabidopsis thaliana</i> .”
Student (Kavya Tanna)	2022	Awarded 1stprize at International e-conference on Mitigating Contemporary Environmental issues by Sustainable Approaches (ICMCESA-2022) , organized by Acharya Narendra Dev College, University of New Delhi, in February 2022 for Oral presentation of research in Research scholars Section “Comparative analysis of Vegetation and Urbanization at Porbandar city of Saurashtra through geospatial techniques.”
Recognitions		
Dr. Jigna G. Tank	2020	Certificate of Appreciation for evaluating Oral presentations of Botany in National Conference as Judge,12th National Science Symposium 2020 on Recent Trends in Science and Technology, 19th January 2020, Christ College, Rajkot.
Dr. Jigna G. Tank	2020	Certificate of Appreciation for evaluating Drawing posters as Judge, Drawing Competition held on 30 th December to 3 rd January 2020, in Life Science Association at Department of Biosciences, Saurashtra University, Rajkot
Dr. Jigna G. Tank	2020	Certificate of Appreciation for acting as Organizing Secretary in National Conference on Innovations in Biological Sciences held on 10 th January 2020, organized at Department of Biosciences, Saurashtra University, Rajkot-360005, Gujarat, India
Dr. Jigna G. Tank	2021	Certificate of Appreciation for evaluating Oral presentations of Botany in international science symposium as Judge,International Science Symposium 2021 on Recent Trends in Science and Technology, 8 th and 9 th April 2021, Christ College, Rajkot.

Collaborations:

No.	Name of Department	Year of Collaboration	Reason of Collaboration	Name and address of Collaborating institute	Details of Collaborations
1	Biosciences	2019-2020	Ph.D Research in Ecology	Dr. Hitesh Solanki , Department of Botany, Gujarat University, Ahmedabad	Co-Guide of Ph.D Student Ms. Sima Joshi
2	Biosciences	2014-2020	Research in Plant Biotechnology	Dr. Rohan Pandya Department of Biotechnology, M. & N. Shree Virani Science College, Kalavad Road, Rajkot	Joint Research and Publications

3	Biosciences	2021-22	Research in GIS techniques	Dr. Sanjay Teraiya Department of Zoology, M.V.M. Mahila College, Rajkot.	Co-Guide of Ph.D student Ms. Kavya Tanna
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Invited talk/Guest lectures/Resource person

Sr. No.	Invited talk/Guest lectures
1	Guest lecture on “Genetic Markers” at Christ college, Rajkot
2	Resource person in National workshop on Assembly and Application of Foldscope, held on 5-6 th March 2019 organized by Department of Biogas Research and Microbiology, Faculty of Science and Applied Science, Gujarat Vidhyapith, Sadra, Gandhinagar, Gujarat

Others

Sr. No.	Others
1	Life member Indian Society for plant physiology
2	Life member Indian Science Congress Association
3	Life member Indian Society of genetics and Plant Breeding
4	Life member Indian Society of cell Biology
5	Science Alliance: The New York Academy of Sciences