

CURRICULUM VITAE

Name: T. V. RAMANA RAO
(Tadapaneni Venkata Ramana Rao)

Date & Place of Birth: 01-09-1958, Jammavaram (Village)
Kanchikacherla (Via)
Krishna (Dist.), A.P.

Addresses

Department: Department of Biosciences
Sardar Patel University
Satellite Campus, Bakrol, Gujarat – 388 120

E-mail: tadapanenirao@yahoo.com

Phone: Lab: + 91 - 2692 - 234412 Ext. 111
Mobile: +91- 98254 38147

Home address: D-93, University Staff Colony
Opp. Kendriya Vidyalaya
Vallabh Vidyanagar, Gujarat – 388 120

Phone: Resi. +91-2692-248262

Education:

Ph. D. 1986 Sardar Patel University, Gujarat
M. Sc. 1981 Sardar Patel University, Gujarat
B. Sc. 1978 Nagarjuna University, A. P.

Positions Held:

Professor in Botany, Sardar Patel University, Since Sept. 2006
Reader in Botany, Sardar Patel University, Sept. 1998 – Aug. 2006
Lecturer in Botany, Sardar Patel University, Sept. 1989 - Aug. 1998
Technician, Sardar Patel University, June 1986 – Aug 1989

Research Experience: 35 years

Areas of Research:

- (i) Pre and Postharvest Biology and Technology of Fruits and Vegetables
- (ii) Histo-Physiology of Fruit Development and Ripening

Honors, Awards & Fellowships

- (13) Chosen as All India Co-ordinator for Sukura Science Project, Youth Exchange Program between Asian Countries which was held in Miyazaki University, Miyazaki, Japan from 12th December to 21st December 2018.
- (12) Best Teacher Award – 2017 by Gujarat Science Academy, Conferred on 04-02-2018
- (11) Elected as a Fellow of Gujarat Science Academy (GSA) - ID: F274, YOI 2016.
- (10) Award of Highly Cited Research in Postharvest Biology and Technology of ELSEVIER on 20th December 2016.
- (9) Pratibha Puraskar Award in Science & Technology from Acharya Nagarjuna University during its 39th Foundation Day Celebration held on 30th September 2016.
- (8) Elected as a Fellow of Andhra Pradesh Akademi of Sciences (FAPAS), 2015.
- (7) Dr. C. K. Shah Award for Best Research Paper in Plant Sciences (Botany / Agriculture Botany / Plant Biotechnology) for the year 2011-2012.
- (6) Fellow, Association of Biotechnology and Pharmacy (ABAP), Conferred on Dec. 20, 2012
- (5) Brain Pool Fellowship of Korean Science and Technology Societies Federation (KOSEF) for the year 2007
- (4) Dr. C. K. Shah Award for Best Research Paper in Plant Sciences (Botany / Agriculture Botany / Plant Biotechnology) for the year 2006-2007.
- (3) Award of Visiting Fellowship of Indian National Science Academy (INSA), New Delhi for the year 2001 – 2002.
- (2) Best Poster Presentation in Botany Section of 88th Indian Science Congress held at IARI, New Delhi from Jan. 3-7, 2001.
- (1) Hari Ohm Ashram Prerit Prize for the Best Research Paper in Botany for the Year 1989.



Research Publications {Published – 80 & Communicated - 03}:

Communicated: (03)

1. Sayali More and **T. V. Ramana Rao**
Photosensitization mediated activation of antioxidant enzymes in banana during postharvest storage.
Postharvest Biology and Technology (Communicated on 16-08-2019)
2. Sayali More and **T. V. Ramana Rao**
Elicitor mediated” sanitization in combination with edible coatings improves postharvest shelf life and antioxidant potential of mango fruit.
Environmental and Experimental Biology (Revised version submitted on 06-08-2019)
3. Sayali More and **T. V. Ramana Rao**
Photosensitization in combination with ozone gas delays the postharvest ripening of stored tomato
International journal of Postharvest technology and Innovation (Communicated on 26-03-2019; Under review process)

List of Papers Published: (80)

- 80 Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
Improvement of postharvest quality and shelf life of cape gooseberry (*Physalis peruviana* L.) fruit with bioactive composite coatings during low temperature storage
PRAJNA – Journal of Pure and Applied Sciences Vol. 26 : 24 – 37 (2018)
79. Sonu Sharma and **T. V. Ramana Rao**
Composite coating mediated improvement of nutritional quality and safety of fresh-cut pineapple (*Ananas comosus* L. Merrill)
PRAJNA – Journal of Pure and Applied Sciences Vol. 26 : 8 – 23 (2018)
78. Rudri K. Dave, **T. V. Ramana Rao** and A. S. Nandane
Improvement of post-harvest quality of pear fruit with optimized composite edible coating formulation.
Journal of Food Science and Technology (DOI 10.1007/s13197-017-2850-y)
(Impact factor: 2.024, NAAS Rating: 8.02)
<http://www.springer.com/food+science/journal/13197>
77. **T. V. Ramana Rao** and Soumya V
Nutraceutical value and quality attributes of icebox watermelon fruit as influenced by ripening
International Food Research Journal (Accepted - Ref.: ID is IFRJ16842)
<http://www.ifrj.upm.edu.my/>
76. Arpit V. Joshi, Nilanjana S. Baraiya, Pinal B. Vyas and **T. V. Ramana Rao**
Gum ghatti based edible coating emulsion with an additive of clove oil improves the storage life and maintains the quality of papaya (*Carica papaya* L., cv. Madhu bindu).
International Journal of Current Microbiology and Applied Sciences 6 (5): 160-174, 2017.
DOI: <https://doi.org/10.20546/ijcmas.2017.605.019> (NAAS Rating: 5.38)
<http://www.ijcmas.com/abstractview.php?ID=2260&vol=6-5-2017&SNo=19>
75. Sonu Sharma and **T. V. Ramana Rao**
Responses of fresh-cut products of four mango cultivars under two different storage conditions
Journal of Food Science and Technology 54(6):1689-1702, 2017
(DOI: 10.1007/s13197-017-2601-0) – 2017.
(Impact factor: 2.024, NAAS Rating: 8.02)
<http://www.springer.com/food+science/journal/13197>
74. A. S. Nandane, Rudri K. Dave and **T. V. Ramana Rao**
Optimization of edible coating formulations for improving postharvest quality and shelf life of pear fruit using Response Surface Methodology
Journal of Food Science and Technology – 54(1): 1 – 8, 2017.
(Impact factor: 2.024, NAAS Rating: 8.02)
<http://www.springer.com/food+science/journal/13197>

73. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
Chemical elicitors improves the shelf life of Phalsa (*Grewia asiatica* L.) by inducing its antioxidants and controlling microbes
Fruits 71 (5):307 – 317, 2016
(Impact factor: 0.8, NAAS Rating: 6.80)
<http://journals.cambridge.org/action/displayJournal?jid=FRU>
72. Nilanjana S. Baraiya, **T.V. Ramana Rao** and V. R. Thakkar
Composite coating as a carrier of antioxidants improves the postharvest shelf life and quality of Table grapes (*Vitis vinifera* L. var. Thompson seedless)
Journal of Agricultural Science and Technology 18: 93 -107, 2016
(Impact factor: 0.679, NAAS Rating: 6.68)
http://jast.modares.ac.ir/article_13922_814ec89d948fee8a82642b956432d0d7.pdf
71. **T.V. Ramana Rao**, Nilanjana S. Baraiya, Pinal B. Vyas and Dhara M. Patel
Composite coating of alginate-olive oil enriched with antioxidants enhances postharvest quality and shelf life of Ber fruit (*Ziziphus mauritiana* L. var. Gola)
Journal of Food Science and Technology 53: 748-756, 2016
(Impact factor: 2.024, NAAS Rating: 8.02)
<http://link.springer.com/article/10.1007/s13197-015-2045-3>
70. Rudri Dave, **T. V. Ramana Rao** and A. S. Nandane
RSM based optimization of edible coating formulations for preserving postharvest quality and enhancing storability of phalsa (*Grewia asiatica* L.).
Journal of Food Processing and Preservation - DOI: 10.1111/jfpp.12630, 2015
(Impact Factor: 1.159, NAAS Rating: 6.45)
<http://onlinelibrary.wiley.com/doi/10.1111/jfpp.12630/abstract>
69. Nilanjana S. Baraiya, **T.V. Ramana Rao**, V. R. Thakkar
Zein coating enriched with antioxidants improves post harvest quality and storability of Jamun fruit (*Syzygium cumini* L. var. Paras)
Food and Bioprocess Technology - 8: 2225-2234, 2015
(Impact factor: 3.126, NAAS Rating: 9.13)
<http://link.springer.com/article/10.1007%2Fs11947-015-1577-x>
68. Uma Kuwar, Sonu Sharma and **T. V. Ramana Rao**
Aloe vera gel and honey based coating as a safe means for quality maintenance and shelf life extension of fresh cut papaya
Journal of Food Quality. 38(5): 347-358, 2015
(Impact factor: 0.768, NAAS Rating: 6.77)
<http://onlinelibrary.wiley.com/doi/10.1111/jfq.12150/pdf>
67. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
Combined effects of chemical and physical elicitors on postharvest quality of custard apple (*Annona squamosa* L., cv. Balanagar)
Scientia Horticulturae Vol. 187, 50-57, 2015
(Impact factor: 1.504, NAAS Rating: 7.50)
<http://www.sciencedirect.com/science/article/pii/S0304423815001156>
66. Neeta B. Gol, Pinal B. Vyas and **T. V. Ramana Rao**
Evaluation of polysaccharide based edible coating for their ability to preserve the postharvest quality of Indian blackberry (*Syzygium cumini* L.)
International Journal of Fruit Science, 15:198–222, 2015
<http://dx.doi.org/10.1080/15538362.2015.1017425>
65. Neeta B. Gol, Manu L. Chaudhari and **T. V. Ramana Rao**
Effect of edible coating on quality and shelf-life of carambola (*Averrhoa carambola* L.) fruit during storage.
Journal of Food Science and Technology Vol. 52 (1): 78-91, 2015
(Impact factor: 2.024, NAAS Rating: 8.02)
<http://link.springer.com/article/10.1007%2Fs13197-013-0988-9>

64. Sonu Sharma and **T. V. Ramana Rao**
Xanthan gum based edible coating enriched with cinnamic acid prevents browning and extends the shelf life of fresh-cut pears
LWT-Food Science and Technology (2014), (Impact factor: 2.468, NAAS Rating: 8.47)
<http://dx.doi.org/10.1016/j.lwt.2014.11.050>
<http://www.sciencedirect.com/science/article/pii/S0023643814007750>
63. Soumya V and **T. V. Ramana Rao**
Health promoting and related enzyme activities of muskmelon fruit during its development and ripening
Journal of Food Biochemistry Vol. 38: 415-423, 2014
<http://onlinelibrary.wiley.com/doi/10.1111/jfbc.12068/abstract>
62. Nilanjana S. Baraiya, **T.V. Ramana Rao** and V. R. Thakkar
Enhancement of storability and quality maintenance of carambola (*Averrhoa carambola* L.) fruit by using composite edible coating.
Fruits, Vol 69: 195–205, 2014, (Impact factor: 0.8, NAAS Rating: 6.80)
<http://www.fruits-journal.org/articles/fruits/abs/2014/03/fruits140010/fruits140010.html>
61. Neeta B. Gol and **T. V. Ramana Rao**
Impact of zein and gelatin coatings on the postharvest quality maintenance and shelf life extension of mango (*Mangifera indica* L.)
Fruits Vol. 69: 1-15, 2014, (Impact factor: 0.8, NAAS Rating: 6.80)
<http://www.fruits-journal.org/articles/fruits/abs/2014/02/fruits140002/fruits140002.html>
60. Soumya V. and **T. V. Ramana Rao**
Nutritional Quality evaluation of four icebox cultivar of watermelon fruit during their development and ripening
International Food Research Journal, Vol. 21 (2): 631-639, 2014
[http://www.ifrj.upm.edu.my/21%20\(02\)%202014/29%20IFRJ%2021%20\(02\)%202014%20Rama%20Rao%20344.pdf](http://www.ifrj.upm.edu.my/21%20(02)%202014/29%20IFRJ%2021%20(02)%202014%20Rama%20Rao%20344.pdf)
59. Prakash R. Patel and **T. V. Ramana Rao**
Growth and ripening in Blackplum [*Syzygium cumini* (L.) Skills]
International Journal of Fruit Science, Vol. 14 (2), 147 -156, 2014
<http://www.tandfonline.com/doi/abs/10.1080/15538362.2013.817842?af=R#.U4xtOXKSzm8>
58. Pinal B. Vyas, Neeta B. Gol and **T. V. Ramana Rao**
Postharvest quality maintenance of papaya fruit by using polysaccharide based edible coatings
International Journal of Fruit Science, Vol. 14 (1), 81-94 , 2014.
<http://www.tandfonline.com/doi/abs/10.1080/15538362.2013.801753#.U4xtmnKSzm8>
57. Pinal B. Vyas, Nilanjana S. Baraiya, Munira S. Suttarwala and **T.V. Ramana Rao**
Gelatin based coating combined with calcium chloride enhances the shelf life and nutritional quality of Sapota (*Manilkara zapota* L. cv. Kalipatti)
PRAJANA- Journal of Pure and Applied sciences, 21: 05-12, 2013
56. Sonu Sharma and **T. V. Ramana Rao**
Effect of Honey and L-cysteine as antioxidants on the quality attributes of fresh-cut carambola (*Averrhoa carambola* L.) stored at two different temperatures.
International Journal of Postharvest Technology and Innovation, Vol 3 (4): 362-381, 2013
<http://www.inderscience.com/info/inarticle.php?artid=60269>
55. Neeta B. Gol, Pooja R. Patel and **T. V. Ramana Rao**
Improvement of quality and shelf life of strawberry with edible coatings enriched with chitosan
Postharvest Biology and Technology, 85: 185–195, 2013
(Impact factor: 2.628, NAAS Rating: 8.63)
<http://www.sciencedirect.com/science/article/pii/S0925521413001646>

54. Prakash R. Patel and **T.V. Ramana Rao**
Growth and ripening related changes in Spanish cherry (*Mimusops elengi* L.)
Indian Journal of Plant Physiology, 18 (2): 172 -176, 2013 (NAAS Rating: 4.66)
<http://link.springer.com/article/10.1007/s40502-013-0023-1>
53. Sonu Sharma and **T. V. Ramana Rao**
Nutritional quality characteristics of pumpkin fruit as revealed by its biochemical analysis
International Food Research Journal, Vol. 20 (5): 2309-2316, 2013.
[http://www.ifrj.upm.edu.my/20%20\(05\)%202013/36%20IFRJ%2020%20\(05\)%202013%20Rao%20336.pdf](http://www.ifrj.upm.edu.my/20%20(05)%202013/36%20IFRJ%2020%20(05)%202013%20Rao%20336.pdf)
52. Soumya V. Menon and **T. V. Ramana Rao**
Nutritional quality evaluation of nonnetted muskmelon fruit during its development and ripening
Nutrition and Food Science, Vol.43 (4): 398-406, 2013, (NAAS Rating: 5.09)
<http://www.emeraldinsight.com/journals.htm?issn=0034-6659&volume=43&issue=4&articleid=17091809&show=abstract>
51. Prakash R. Patel and **T. V. Ramana Rao**
Physiological changes in Karanda (*Carissa carandus* L.) fruit during growth and ripening.
Nutrition and Food Science, Vol. 43 Issue 2, pp.128 – 136 (2013) (NAAS Rating: 5.09)
<http://www.emeraldinsight.com/journals.htm?articleid=1708399>
50. S. M. Khasim, **T.V. Ramana Rao**, G. Ramesh and S. Hemalatha
Structure and development of fruit and seed of *Jatropha gossypifolia* L.
In B. Bahadur et al. (eds.), *Jatropha, Challenges for a New Energy Crop: Volume 2: Genetic Improvement and Biotechnology*,
© Springer Science+Business Media New York 2013
http://link.springer.com/content/pdf/10.1007%2F978-1-4614-4915-7_6#
49. Payal T. Shah and **T. V. Ramana Rao**
Physiological, biochemical and cellular changes associated with the ripening of bitter less bitter gourd (*Momordica dioica* Roxb. Ex Wild.) fruits.
The International Journal of Engineering and Science (IJES), Vol. 2, Issue 7, pp. 01-05, 2013.
48. Nilanjana S. Baraiya, Neeta B. Gol and **T.V. Ramana Rao**
Influence of polysaccharide based edible coatings on the shelf life and nutritional quality of tomato fruit.
Food, Vol. 6 (1): 22-27 (2012)
http://www.globalsciencebooks.info/JournalsSup/12FOOD_6_1.html
47. Soumya V. Menon and **T. V. Ramana Rao**
Nutritional quality of muskmelon fruit as revealed by its biochemical properties during different rates of ripening
International Food Research Journal, 19 (4):1621-1628 (2012)
[http://www.ifrj.upm.edu.my/19%20\(04\)%202012/45%20IFRJ%2019%20\(04\)%202012%20Rao%20\(337\).pdf](http://www.ifrj.upm.edu.my/19%20(04)%202012/45%20IFRJ%2019%20(04)%202012%20Rao%20(337).pdf)
46. Soumya V. Menon and **T. V. Ramana Rao**
Enzyme activities during the development and ripening of watermelon (*Citrullus lanatus* (Thunb.) Matsum. & Nakai) fruit
International Journal of Plant Developmental Biology, 6 (1):21-26 (2012)
http://www.globalsciencebooks.info/JournalsSup/12IJPDB_6_1.html
45. Prakash R. Patel and **T. V. Ramana Rao**
Screening of antibacterial activity of some underutilized fruits of Sapotaceae
International Food Research Journal, 19 (3): 1227-1231 (2012)
[http://www.ifrj.upm.edu.my/19%20\(03\)%202012/\(60\)%20IFRJ%2019%20\(03\)%202012%20Patel.pdf](http://www.ifrj.upm.edu.my/19%20(03)%202012/(60)%20IFRJ%2019%20(03)%202012%20Patel.pdf)

44. Prakash R. Patel and **T. V. Ramana Rao**
Antibacterial activity of underutilized fruits of Jamun (*Syzygium cumini*)
International Journal of Current Pharmaceutical Research 4 (1): 36-39, 2012
(Impact factor: 4.510)
<http://www.ijcpr.org/Issues/Vol4Issue1/433.pdf>
43. Prakash R. Patel and **T. V. Ramana Rao**
Influence of growth and ripening of *Physalis minima* L. fruit on its antibacterial potential.
Research Journal of Medicinal Plants 6(4): 326-333, 2012
<http://docsdrive.com/pdfs/academicjournals/rjmp/0000/39051-39051.pdf>
42. Prakash R. Patel and **T. V. Ramana Rao**
Antibacterial activity of indian cherry during its growth and ripening.
International Journal of Applied Biology and Pharmaceutical Technology 2 (4): 172-177 (2011), (Impact factor: 0.9967)
<http://www.ijabpt.com/Details.aspx?id=451>
41. Prakash R. Patel and **T. V. Ramana Rao**
Effect of maturity indices of *Carissa carandus* fruit on its antibacterial activity.
Der Pharmacia Lettre 3(6): 31-35, 2011.
<http://scholarsresearchlibrary.com/dpl-vol3-iss6/DPL-2011-3-6-31-35.pdf>
40. **T. V. Ramana Rao**, Neeta B. Gol and Khilana K. Shah.
Effect of postharvest treatments and storage temperatures on the quality and shelf life of sweet pepper (*Capsicum annum* L.).
Scientia Horticulturae, 132: 18-26, 2011. (Impact factor: 1.504, NAAS Rating: 7.50)
<http://www.sciencedirect.com/science/article/pii/S030442381100505X>
39. Neeta B. Gol and **T. V. Ramana Rao**.
Banana fruit ripening as influenced by edible coatings.
International Journal of Fruit Science 11(2): 119-135, 2011.
<http://www.tandfonline.com/doi/full/10.1080/15538362.2011.578512#.U41TP3KSzm8>
38. Prakash R. Patel and **T. V. Ramana Rao**
Biochemical changes in relation to growth and ripening of Indian cherry (*Cordia dichotoma* Forst. F.): an underutilized fruit.
International Journal of Fruit Science 11: 1-11, 2011.
http://www.researchgate.net/publication/232864887_Biochemical_Changes_in_Relation_to_Growth_and_Ripening_of_Indian_Cherry_%28Cordia_dichotoma%29_An_Underutilized_Fruit
37. Prakash R. Patel, Neeta B. Gol, **Tadapaneni V. Ramana Rao**.
Physiochemical changes in sunberry (*Physalis minima* L.) fruit during growth and ripening,
Fruits 66 (1): 37-46, 2011. (Impact factor: 0.8, NAAS Rating: 6.80)
<http://www.fruits-journal.org/action/displayAbstract?fromPage=online&aid=8000453&fulltextType=RA&fileId=S0248129410000393>
36. Nirupama Pila, Neeta B. Gol and **T. V. Ramana Rao**. Effect of post harvest treatments on physicochemical characteristics and shelf life of tomato (*Lycopersicon esculentum* Mill.) fruits during storage.
American-Eurasian Journal of Agriculture and Environmental Sciences 9(5): 470-479, 2010.
[http://www.idosi.org/aejaes/jaes9\(5\)/3.pdf](http://www.idosi.org/aejaes/jaes9(5)/3.pdf)
35. Jay B. Pandya and **T. V. Ramana Rao**. Analysis of certain biochemical changes associated with growth and ripening of pumpkin fruit in relation to its seed development.
PRAJNA- Journal of Pure and Applied Sciences, 18: 34-39, 2010.
<http://www2.spuvvn.edu/prajna/BIOSCIENCES/10TVRamanaRaoFinal.pdf>
34. Neeta B. Gol, **T. V. Ramana Rao** and Prakash Patel
Certain Physico-chemical changes in relation to growth and ripening of *Moras alba* fruit.
PRAJNA – Journal of Pure and Applied Sciences, 17: 58-64, 2009.
http://www.spuvvn.edu/academics/publications/prajna_09.pdf

33. Prakash R. Patel and **T. V. Ramana Rao**
Physiological changes in relation to the growth, development and ripening of Khirni (*Manilkara hexandra* (Roxb.) Dubard) fruit
Fruits 64(3): 139-146, 2009. (Impact factor: 0.8, NAAS Rating: 6.80) <http://www.fruits-journal.org/action/displayAbstract?fromPage=online&aid=8083176&fulltextType=RA&fileId=S0248129409000097>
32. Patel, K. G. and **T. V. Ramana Rao**
Effect of simulated water stress on the physiology of leaf senescence in three genotypes of cowpea (*Vigna unguiculata* (L). Walp).
Indian Journal of Plant Physiology 12 (2): 138-145, 2007. (NAAS Rating: 4.66)
<http://indianjournals.com/ijor.aspx?target=ijor:ijpp&volume=12&issue=2&article=007>
31. **Ramana Rao, T. V.** and Yash Dave
Histo-architecture of the pericarp and seed liberation in the schizocarpic fruit of *Sida rhombifolia* L. (Malvaceae)
Pakistan Journal of Botany 38(1): 353-359, 2006, (Impact factor: 1.207, NAAS Rating: 7.21)
[http://www.pakbs.org/pjbot/PDFs/38\(2\)/PJB38\(2\)353.pdf](http://www.pakbs.org/pjbot/PDFs/38(2)/PJB38(2)353.pdf)
30. **Ramana Rao, T. V.** and Yash Dave
Histo-architectural analysis in relation to fruit development in *Gossypium hirsutum* L..
Phytomorphology 55 (3&4): 223 – 240, 2005, (NAAS Rating 2.95)
<http://kdb.kew.org/kdb/detailedresult.do?id=373666>
29. Yash Dave, **T. V. Ramana Rao** and Kajal G. Patel Are there real extra-floral nectarines in Pedaliaceae? *Phytomorphology* 55 (3&4): 195 – 202, 2005, (NAAS Rating 2.95)
<http://phytomorphology.tripod.com/>
28. **Ramana Rao, T. V.** and Yash Dave
Morpho-histogenic studies in the pericarp of *Cardiospermum halicacabum* L.
Acta Botanica Hungarica 47(3-4) 453 – 458, 2005
<http://www.akademai.com/content/y363731033671h60/?p=11f9f8cc3d7f478d9230b0e50d0c22be&pi=7>
27. Hetal B. Trivedi, **T. V. Ramana Rao**, D. L. Bagdi and G. Gururaja Rao
Influence of silicon on growth and salt uptake in wheat under salinity
Indian Journal of Plant Physiology 9(4): (N.S.) 360-366, 2004.
(NAAS Rating: 4.66)
<http://www.ispp-online.org/>
26. Yash Dave, **T. V. Ramana Rao** and Neelam Bhatnagar
Histo-architecture of the fruits of three selected species of Combretaceae.
Phytomorphology 54 (3&4): 01-09, 2004 (NAAS Rating 2.95)
<http://phytomorphology.tripod.com/>
25. **Ramana Rao, T. V.**, Neelam Bhatnagar and Yash Dave
Morpho-histogenic and histochemical analysis of fruits of some Myrtaceae.
In *Advances in Plant Reproductive Biology* 215 – 232 (Ed. Pandey, A. K. and Dhakal, M. R.) Narendra Publishing House, Delhi, 2003.
24. Ch. Uma, **T. V. Ramana Rao** and J. A. Inamdar
Effect of particulate (cement kiln dust) pollution on *Hibiscus cannabinus* L.
(Chapter 8 (pp 66 - 74)
In *Air pollution development at what cost?* (ed. Jasrai, Y. and Arya, A.) Daya Publishing House, New Delhi, 2003.
23. **Ramana Rao, T. V.** and Yash Dave
Morpho-histogenic studies of the fruit wall of *Argemone mexicana* L. (Papaveraceae)
Acta Botanica Hungarica 43 (3-4): 391 - 401, 2001.
<http://www.akademai.com/content/k6p5124x522qg463/?p=bfb3f650bcf54193abb45b0d5b07f9fc&pi=12>

22. Neelam Bhatnagar, Yah Dave and **T. V. Ramana Rao**
Morpho-histogenic and histochemical studies in some fruits of family Lythraceae with the use of its systematic value.
Plant Cell Incompatibility News Letter 31: 1 -44, 1999
21. **Ramana Rao, T. V.** and I. L. Kothari
Potential of Linseed as herbal remedy
In *Medicinal Plants: India's Herbal Heritage* (Eds. Kothari et al.), 112-113, 1998.
20. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Morpho-histogenic and histochemical studies in the fruit of *Callistemon selaginus* (Smith)
In *Plant Structure and Morphogenesis* (Eds. Ramana Rao, T. V. and I. L. Kothari) 69-75, 1997.
19. **Ramana Rao, T. V.**, Neelam Bhatnagar and Yash Dave
Developmental and structural studies in the fruit of *Lawsonia inermis* L. (Lythraceae)
Geobios 16 (2): 109-112, 1997.
18. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Structural design in the developing fruit wall of *Terminalia arjuna* (Roxb) (Combretaceae)
Journal of Indian Botanical Society **76**: 77-80, 1997.
<http://www.indianbotsoc.org/editorialboard.php>
17. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Epicarpic studies in the developing fruit of *Eugenia jambos* L. (Myrtaceae)
Journal of Phytological Research **10** (1/2):9-14, 1997.
16. Dave Yash, Neelam Bhatnagar and **T. V. Ramana Rao**
Histo-architecture in the developing fruit of *Comretum coccineum* lam. (Combretaceae)
Phytomorphology **47** (2): 167- 172, 1997. (NAAS Rating 2.95)
<http://phytomorphology.tripod.com/>
15. Joseph, G. V. R., **T. V. Ramana Rao** and J. A. Inamdar
Histo-morphological and pharmacognostic studies on the leaves of *Kirgnelia reticulata* (Poir) (Euphorbiaceae)
In *Frontiers in Plant Science- Plant Taxonomy and Anatomy Section* (Ed. Irfan A Khan) 887-893 1997.
14. Uma, Ch. and **T. V. Ramana Rao**
Effect of cement kiln dust pollution on *Hibiscus cannabinus* (L.)
Geobios **23**: 59-64, 1996.
13. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao** Pericarpic studies in the developing fruit of *Terminalia bellerica*
Indian Botanical Contactor **12**(1-4): 95-100, 1995.
12. Uma, Ch., **T. V. Ramana Rao** and J. A. Inamdar
Impact of cement kiln dust pollution on sunhemp (*Crotalaria juncea*)
Phytomorphology **44** (3&4): 223-229, 1994 (NAAS Rating 2.95)
<http://phytomorphology.tripod.com/>
11. Uma, Ch. and **T. V. Ramana Rao**
Morpho-biochemical changes due to cement kiln dust pollution in mustard
Indian Botanical Contactor **10**: 131-135, 1993.
10. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Morpho-histogenic study of horned fruit of *Pavonia sepium* A. St. and its dehiscence
Phytomorphology **43** (1&2): 1-8, 1993. (NAAS Rating 2.95)
<http://phytomorphology.tripod.com/>
9. Inamdar, J. A., G. S. Chaudhary and **T. V. Ramana Rao**
Studies on the cystoliths of Acanthaceae
Feddes Repertorium, 101 (7-8): 417-424, 1990.

8. Inamdar, J. A., **T. V. Ramana Rao** and Yash Dave
Histological structure of the pericarp of *Abelmoschus esculentus* L. (Moench) in relation to growth and dehiscence
Proc. Indian Acad. Sci. (Plant Sci.) 99 (6) : 547-556, 1989.

7. Yash Dave, **T. V. Ramana Rao** and J. A. Inamdar
Structural design of the developing and mature pericarp of *Hibiscus sabdariffa* L.
Proc. Indian Acad. Sci. (Plant Sci.) 97 (1): 17-23, 1987.

6. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Morpho-histogenesis of fruit sculpture and dehiscence in *Thespesia populnea* (L.) Soland (Malvaceae)
Korean Journal of Botany, 30(3): 189-199, 1987. (Impact Factor: 1.284)

5. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Morpho-histogenic studies in the pericarp of *Hibiscus micranthus* L.
Feddes Repertorium, 98 (9-10) 485-491, 1987.
[http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1522-239Xb/issues](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1522-239Xb/issues)

4. Inamdar, J. A., R. Balakrishna Bhatt and **T. V. Ramana Rao**
Internodal vessel elements of some Sterculiaceae
Journal of Plant Anatomy and Morphology, 2: 1-7, 1985.

3. **Ramana Rao, T. V.**, Y. S, Dave and J. A. Inamdar
Structure, ontogeny and morphology of glochid emergences on the fruit wall of *Urena lobata* (L.).
Indian Botanical Contactor 2: 89-96, 1985.

2. Inamdar, J. A., R. Balakrishna Bhatt and **T. V. Ramana Rao**
Structure, ontogeny, classification and taxonomic significance of trichomes in Malvales
Korean Journal of Botany, 26: 151-160, 1983. (Impact Factor: 1.284)
http://210.101.116.28/W_files/kiss5/29900475_pv.pdf

1. Inamdar, J. A., R. Balakrishna Bhatt and **T. V. Ramana Rao**
Internodal vessel elements of some Malvaceae
Korean Journal of Botany, 26: 7-16, 1983. (Impact Factor: 1.284)

Books, Book Chapters, Manuals:

2. **Ramana Rao, T. V.** and I. L. Kothari
Plant Structure and Morphogenesis
Proceeding volume of National Symposium-Cum-Workshop on Plant Morphogenesis

1. Medicinal Plants: India's Herbal Heritage
I.L.Kothari, M.H. Parabia, G.C.Jadega and **T. V. Ramana Rao**
KTC Corporation, Ahmedabad, Gujarat.

Research Grants:

Major Research Projects

Ongoing - 01

1. "Development and optimization of biopolymer based composite and/or bilayered edible coating emulsions to improve the postharvest quality and shelf life of some short lived tropical fruits" – An integrated project under **Centre with Potential for Excellence in Particular Area (CPEPA)** of UGC New Delhi " in **Applied Polymers** up to March 2021.

Completed –6

- (6) "Evaluation of Biosafe Products as an Alternate Strategy to Improve the Postharvest Quality and Shelf life of Some Perishable Horticultural Produce" – UGC, New Delhi - with the budget of **Rs. 14,60,000/- for 3 years)**
- (5) Development and optimization of edible coating formulations to improve the postharvest quality and shelf-life of underutilized short lived fresh fruits by using RSM (**MOFPI - SERB, DST, New Delhi – Major project**) September 2012 – March 2015 (In collaboration with Dr. Anil Nandane, Dept. of Food Processing Technology, ADIT, New Vallabh Vidyanagar, Gujarat).
- (4) Histo-physiological analysis of melons at its different rates of ripening. (UGC – Major Project) 2009-2012.
- (3) Fruit ripening in some cucurbits: Physiological and biochemical approach (UGC – Major Project) 2002 – 2005.
- (2) Morpho-histogenic and biochemical studies in the fruits of some Papaveraceae and Capparideae (UGC – Major Project) 1998-2001.
- (1) Morpho-histogenic and histochemical studies in the fruits of Combretaceae, Lythraceae and Myrtaceae with an emphasis on taxonomical and phylogenetic relationship between inter and intra families (UGC – Major Project) 1994-1997.

Minor Research Projects (Completed - 4)

- (4) Production of healthy watermelon seedlings using grafting techniques (GUJCOST – Minor Project) 2009.
- (3) Biochemical characterization and morphogenetic analysis of *Pongamia pinnata*: A tree that provides biodiesel for India (UGC – Minor Project) 2000 – 2001.
- (2) Morpho-histogenic analysis of some botano-chemical producing plants of Asteraceae (UGC – Minor Project) 1997-98.
- (1) Structural, development and histochemical studies in the fruits of some Sapindaceae (UGC – Minor Project) 1993-94.

Participated in other Projects as Co-Investigator

- (3) Molecular Mechanisms of elicitor induced prospective to combat disease of banana (DBT) – Participated as one of the Co-Investigators, 2004-2007.
- (2) Biology of ecologically important life supporting plants of little Rann of Kutch (Ministry of Environments and Forests (MoEF), 2002-2005.
- (1) Exploration, Characterization and Ex-situ conservation strategies of medicinal plants of Gujarat (NBPGR) – Participated as one of the Co-Investigators, 1998- 2003.

Also actively participated in the following Departmental Projects

- DST's FIST program for five years from April 2001 to March 2006.
- UGC's COSIST Program for five years from April 2001 to March 2006
- Phase II of UGC's Special Assistance Program (SAP) on the Thrust areas of **Plant Morphogenesis and Biodiversity and Environmental Biology** during the period between 2000 and 2004
- Phase – I of UGC's Special Assistance Program (SAP) on the thrust area of **Morphogenesis and Plant Anatomy** during the period between 1994 and 1999

Research guidance:

Students working at present for their Ph. D.:

01

Optimization and evaluation of safe postharvest technologies for improvement of shelf life and quality maintenance of some short lived tropical fruits-Sayali More (Registered on 12th December,2015)

Students who obtained their Ph. D. Degree:

10

- (10) Improvement of nutritional characteristics and extension of shelf life of perishable fruits and vegetables by sing postharvest elicitors and edible coatings – Pinal B. Vyas (11/12/2017)
- (9) Antioxidant enrichment and antimicrobial protection of fresh cut fruits using innovative approaches.- Sonu Sharma (07/04/2017).
- (8) Improvement of health promoting properties and enhancement of shelf life of short lived tropical fruits and vegetables by using some innovative postharvest technologies – Nilanjana S. Baraiya (15/03/2017).
- (7) Biochemical and Histo-Architectural analysis of Melons in relation to their development and ripening. – Soumya V. Menon (17/07/2015)
- (6) Postharvest quality maintenance and shelf life extension of some commercially important perishable horticultural commodities – Neeta B. Gol (December,2013)
- (5) Study of certain physiological and histo-architectural changes associated with the growth and ripening of some underutilized fruits – Prakash R. Patel (February, 010)
- (4) Fruit ripening in some cucurbits: Physiological and biochemical approach – Payal T. Shah(2006)
- (3) Morpho-histogenic and histochemical studies in the fruits of Combretaceae, Lythraceae and Myrtaceae with an emphasis on taxonomical and phylogenic relationship between inter and intra families – Neelam Bhatnagar (1998)
- (2) Effect of cement kiln dust pollution on some economically important Plants - Ch. Uma (1996)
- (1) History-morphological and pharmacognostic studies in some Euphorbiaceae - G. V. R. Joseph (1996)

M. Sc.Dissertations Guided: 38

- (38) Life span evaluation of herbal edible coating emulsion composition for improving postharvest shelf life of grapes and banana – Dharika Vadodariya (2017)
- (37) Effect of ozone and edible coating on post harvest quality and shelf life of two varieties of Ber (*Ziziphus mauritiana*) fruit – Jainy Bariya (2017)
- (36) Study of efficacy of polysaccharide based edible coating enriched with citral for improvement of quality and shelf life of fresh cut papaya (*Carica papaya* L.) – Krupa Suthar (2016)
- (35) Improvement of quality and shelf life of capsicum (*Capsicum annum* l.) and tomato (*Solanum lycopersicum* L.) by using guar gum based edible coating combined with olive oil – Smita Nair (2016)
- (34) Effect of hot water and UV-C radiation on the postharvest quality maintenance and shelf life extension of Guava (*Psidium guajava* L) and Black plum fruit (*Prunus domestica* L) – Drashti Shrimali (2016)
- (33) Improvement of anti-oxidant potential of tomatoes and strawberry by using guar-gum based edible coatings emulsion enriched with cinnamon oil – Khevna Vora (2016)
- (32) Post-harvest quality and shelf life of papaya and banana as influenced by gum ghatti coating emulsion combined with clove oil - Arpitkumar V. Joshi (2016)
- (31) Determination of appropriate temperature for postharvest storage and quality maintenance of Fig (*Ficus carica* L., cv. Poona) fruit – Komal Dhummad (2015)
- (30) Effect of postharvest treatments on physicochemical characteristics and shelf life of carrots (*Daucus carota* L.) during storage- Jignesh A. Ambaliya (2015)
- (29) Effect of postharvest treatments of physical elicitors on the nutritional quality and shelf life of three cultivars of capsicum (*Capsicum annum* L)” – Rehanabanu Saiyad (2015)
- (28) Evaluation of gum ghatti coating enriched with essential oils for improving the postharvest shelf life and nutritional quality of Tomato by controlling its anthracnose disease – Glory Simon Parmar (2015)

- (27) Improvement of postharvest quality and shelf life of sweet cherry (*Prunus avium* L.) with guar gum coating enriched with natural biocide active compounds – Minnu Gopalkrishna (2014)
- (26) Aloe vera gel coatings & elicitors mediated improvement of quality attributes of minimally processed 'Hayward' kiwifruit – Keyur R. Zalavadiya (2014)
- (25) Enhancement of postharvest shelf life and quality of ber fruit (*Ziziphus mauritiana* Lamk., var. chamei) by using a layer-by-layer coating enriched with bioactive additives – Ruchi M. Patel (2014).
- (24) Optimization and efficacy evaluation of gumhatti based composite coating with lipid additives for postharvest shelf life and nutritional quality improvement of black plum (*Prunus salicina* L.) fruit – Neha Pareek (2014).
- (23) Postharvest quality enhancement of Californian grapes and strawberries by using some selected postharvest treatments- Ronak N. KachhiyaPatel (2013).
- (22) Nutraceutical quality comparison of two cultivars of cabbage and improvement of phytochemical profile of broccoli with chemical elicitors - Chandani R. Gajjar (2013).
- (21) Sensory quality characteristics and antioxidant properties of fresh cut guava (*Psidium guajava* L.) as influenced by different storage temperatures and polysaccharide based edible coatings supplemented with natural antioxidants- Kamlesh S. Patel (2013).
- (20) Improvement of postharvest quality of Black plum (*Prunus silicina* L.) by using edible coatings enriched with antimicrobial and antioxidant compounds of plant products- Mukti D. Khambholja (2013).
- (19) Influence of zein coating enriched with natural extracts and essential oils in improving the nutritional quality and shelf life of papaya fruit by controlling anthracnose disease- Devang R. Prajapati (2013).
- (18) Nutritional quality evaluation of three selected legumes and potential of composite edible coatings on the quality and shelf-life of strawberry fruit – Pooja R. Patel (2012).
- (17) Use of novel edible coatings for quality improvement of fresh-cut papaya – Uma Kuwar (2012).
- (16) Elucidation of biochemical changes during growth and ripening of sapota fruit and improvement of its postharvest shelf life and quality by using protein based edible coating - Munira S. Suttarwala (2012).
- (15) Compositional changes during development and ripening of fig fruit of two *Ficus* spp: *F. carica* and *F. glomerata* - Payal B. Dave (2012).
- (14) Biochemical changes during the ripening of ber fruit and influences of composite edible coating on its nutritional quality and shelf life - Dhara M. Patel (2012).
- (13) Biochemical and nutritional quality comparison of organically and conventionally produced papaya fruit and extension of their shelf life by using edible coatings - Pinal B. Vyas (2011).
- (12) Enhancement of storage life and quality maintenance of capsicum fruit by using polysaccharides based edible coatings. - Poonam N. Dadwani (2011).
- (11) Biochemical and nutritional quality studies of organically and conventionally grown tomato fruit and enhancement of their shelf life by using edible coatings. - Nilanjana S. Baraiya (2011).
- (10) Evaluation of edible coatings to extend the shelf life and improve the quality of carambola (*Averrhoa carambola* L.) fruit. - Manu L. Chaudhari (2011).
- (9) Study of the impact of post harvest treatments on the phytochemicals and nutritional quality of guava (*Psidium guajava* L.) fruit with an emphasis of extending its shelf life. Kinjal J. Vadsola (2010)

- (8) Physiological and nutritonal quality analysis of capsicum (*capsicum annuum* L.) fruit during development and ripening and in response to postharvest chemical treatment. Khilana K. Shah (2010)
- (7) Study of the impact of pre and post harvest treatments on the phytochemical and nutritional quality of tomato fruit with an emphasis of extending its shelf life. - Nirupama Pila (2009)
- (6) Study of morphometric changes in grafted watermelon seedlings and analysis of certain biochemical changes associated with the growth of pumpkin fruit in relation to its seed development.- Jay B. Pandya (2009)
- (5) Histo-morphological and physiological relationship between the stem and developing fruit of *Luffa cylindrica* (L.) Roem. - Chhaya Patel (2007)
- (4) A study of histo-architectural and biochemical integration in organically grown *Lagenaria leucantha* (Roxb.) Rusby with an emphasis on the relationship between the parent plant and the developing fruit - Vinay R. Patel (2006).
- (3) Biochemical changes during development and ripening of organically grown fruit of Papaya (*Carica papaya* L.) - Sejal A. Patel (2005)
- (2) Biochemical changes associated with the development and ripening of organically grown fruit of *Psidium guajava* L. (Guava) - Jignasa M. Ramani (2005)
- (1) Antioxidants in selected varieties of *Spinacia oleracea* L. and *Trigonella foenum – graecum* L.: A comparative quantitative study - Priya Shukla (2004)

Teaching Experience: 32 years

In the past, training has been imparted to the Researchers of the Department in the subjects of **Microscopy, Instrumentation and Photomicrography.**

Presently involved in teaching of **Cell Biology, Biology and Diversity of Lower Plants, Plant Development and Reproduction, Plant Physiology and Horticulture** to the students of M. Sc. Botany and M. Sc. Biochemistry.

Professional Memberships:

- Life member, Gujarat Science Academy
- Life Member, Andhra Pradesh Akademi of Sciences
- Life Member, Indian Science Congress Association
- Life Member, Indian Botanical Society
- Life Member, Indian Society for Plant Physiology
- Life Member, Indian Society of Agricultural Biochemists
- Life Member, Gujarat Biosciences Society
- Life Member, Association of Biotechnology and Pharmacy
- Life Member, Indian Association for Air Pollution control
- Life Member, Sardar Patel University Teachers Association (*SPUTA*)
- Life Member, Vigyan Gurjari, Vignana Bharati –Gujarat Unit
- Member, Asia-Pacific Chemical, Biological & environmental Engineering society (APCBEEES), Hong Kong
- Member, International Society for Applied Life Sciences (ISALS)

Refresher and / or Orientation Courses attended:

7. Attended faculty development program held by ICFAI, Sardar Patel University, Vallabh Vidyanagar on 1st December 2009.
6. Orientation Program held by Academic Staff College of Gujarat University at M. B. Patel College of Education, Vallabh Vidyanagar from 11 May to 8 June 2001.
5. UGC sponsored Refresher Course in Botany held at Botany Department, Gujarat University, Ahmedabad from August 8 - 28, 2000.
4. Orientation Program on Computer Awareness conducted by G. H. Patel Computer Centre of Sardar Patel University from 9 - 8- 1999 to 2 - 9 - 1999.
3. UGC Sponsored Refresher Course in Botany held at Department of Botany, Gujarat University, Ahmedabad from 14- 3 -1997 to 3- 4-1997.
2. UGC Sponsored Refresher Course in Botany (in Histochemistry and Photochemistry) held at Bharathidasan University, Tirchirapalli from 19-1-1991 to 15-2-1991.
1. Computer Orientation Programme organized by G. H. Patel Computer Centre of Sardar Patel University from 7 August to 14 September, 1990.

Details of participation in Seminars / Symposia / Conferences / Workshops etc.

NATIONAL/ INTERNATIONAL:

63. National Conference on Current Trends in Biological Sciences – II (CTBS 2018) held by Dept. of Biosciences, Sardar Patel University during 9th Feb., 2018.
62. One Day National Seminar on Environment Pollution & Climate Change held by ISTAR, Vallabh Vidyanagar on 30th January 2018. (Also acted as one of the judges for Oral Presentations)
61. Cottonseed Oil Conclave 2017, organized by The Solvent Extractors Association of India (SEA) and All India Cotton Seed Crushers' Association (AICOSCA) on 16th December, 2017 at Courtyard by Mariot Hotel, Ahmedabad.
60. National Conference on "Biodiversity and Bioresource Utilization" held by Department of Biosciences, Saurashtra University, Rajkot during 9 – 10 March, 2017. Delivered an invited talk on 09-03-2017.
59. 2nd National Conference on Current Trends in Biological Sciences (CTBS) – 2017 Organized by Department of Biosciences, Sardar Patel University and Gujarat State Biotechnology Mission, Gandhinagar during January 20 – 21, 2017 at Department of Biosciences, Sardar Patel University.
58. National Conference of Plant Physiology – 2016 held at Department of Crop Physiology, University of Agricultural Sciences, Bengaluru during December 8 – 10, 2016.
57. National Symposium on Exploring Advances in Biological Sciences held by Department of Biosciences, Sardar Patel University on March 5, 2016.
56. National Conference entitled, "Biological Tools for Sustainable Environment" held by Veer Narmad South Gujarat University, Surat on 20th Feb., 2016.
54. International Conference on Agribusiness in Emerging Economies, held by institute of Rural Management, Anand (IRMA) in collaboration with Whitman School of Management & The South Asia Centre at Syracuse University, USA On Jan. 6, 2016. **Acted as a Chairman for one of the Technical Sessions.**
53. India International Science Festival, during 4 -8th December, 2015 organized by Ministry of Science and Technology and Earth Sciences Government of India.
52. UGC-CAS National Conference on Biodiversity And Bioresource Utilization 17-18 March, 2015 Re-Accredited Grade 'A' by NAAC Organized by Department of Biosciences (UGC - Centre of Advanced Study) Saurashtra University, Rajkot – 360 005, Gujarat State, India
51. 102nd Indian Science Congress-2015 on Science and Technology for Human Development organized by University of Mumbai, Mumbai, will be held on 3-7 January, 2015.

50. National seminar on 'Strategies to understand sustainable utilization of plant wealth' organized by Department of Botany, Gujarat university, Ahmadabad held during 29th to 30th September, 2014.
49. Global summit on "Emerging Science and Technologies: Impact on Environment & Human Health", organized by Department of Biotechnology, Vikrama Simhapuri University, Nellore, Andhra Pradesh and UNT Health Science Center, Fortworth Texas, USA held during 01- 03 August, 2014. **Delivered an invited talk and acted as a Judge for Young Scientists Awards.**
48. National Conference of Plant Physiology-2013 on Current Trends in Plant Biology Research organized by Directorate of Groundnut Research, Junagadh and Indian Society for Plant Physiology, New Delhi, in association with Junagadh Agricultural University, Junagadh held during 13th – 16th December, 2013.
47. DST –PURSE sponsored National conference on Interdisciplinary perspectives: Defiance studies, Earth system science and biomedical science (IPDEB-2013) during 15-17 November 2013.
46. 35th All India Botanical Conference & National symposium on Role of Plants and Microbes for the betterment of Mankind in the changing climate held by Botany department of M. S. University of Baroda during 8th to 10th December 2012.
45. International Conference on Environmental Impact on Human Health and Therapeutic Challenges (ICEHT-2012) & 6th Annual Convention of Association of Biotechnology and Pharmacy (ABAP), Organized by Department of Virology, Sri Venkateswara University, Tirupati, A. P., India during December 20-22, 2012.
44. National Seminar of Plant Physiology on Physiological and Molecular Approaches for Development of Climate Resilient Crops at Hyderabad on 12th to 14th Dec. 2012
43. Andhra Pradesh Science Congress-2012 on Innovation in Science, Technology and Mathematics (ISTAM) held at Andhra Pradesh on 14th – 16th November 2012.
42. National Seminar on Nutraceuticals and Plants used in Human Health held by the Department of Botany of M. S. University of Baroda during December 10-11, 2011. **Acted as a Chairman for one of the Technical Sessions.**
41. National Seminar of Plant Physiology held at the Ramnarain Ruia College, Matunga, Mumbai during 24 to 26 November, 2011.
40. National Symposium on Evolving Paradigm to Improve Productivity from Dynamic Management and Value Addition for Plant Genetic Resources, Organized by Department of Botany, Gujarat University, Ahmedabad during 13th to 15th October, 2011.
39. National Symposium on status, challenges and opportunities in the Life-Sciences organized by Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and allied Sciences (ARIBAS), New Vallabh Vidyanagar on September 10, 2011.
38. 98th Indian Science Congress, **SRM University, Chennai**, January 3 – 7, 2011
37. National Conference on Biodiversity Conservation: Challenges Ahead held by Maharaja Sayajirao University, Baroda on December 18-20, 2010. **Acted as a Co-Chairman of a Technical Session.**
36. National Conference of Plant Physiology held by Banaras Hindu University, Varanasi on November 25-27, 2010.
35. National Seminar on Air Pollution Management in Changing Global Environmental Scenario held by the Botany Department of M. S. University, Vadodra on February 7, 2010. **Acted as a Co-Chairman of Poster Presentation Session.**
34. International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, organized jointly by Department of Biotechnology and Department of Nanobiotechnology at Acharya Nagaarjuna University, Guntur, Andhra Pradesh during December 19 to 21 2009. **Acted as a Chairman of one of the Technical sessions.**

33. National Seminar on Role of Biotechnology in Alleviating Environmental Pollution held by Montessori Mahila Kalasala, Vijayawada on 23-10-2009. **Delivered an invited talk on Microscopy as an aid in Environmental pollution research.**
32. National Seminar on Emerging areas in Plant Sciences at M. S. University of Baroda on 22 February 2009.
31. National Conference on Frontiers in Biological Sciences
B R Doshi School of Biosciences, Sardar Patel University
February, 27-28, 2009.
30. International Symposium on Stress in plants held on Nov. 8, 2007 at Gwanju, Korea
29. Conference of the Korean Society for Horticultural Sciences, Koean Society for Bio-environment control, Autumn 2007
October 26-27, 2007.
28. Conference of the Korean Society for Horticultural Sciences, Spring 2007
1 -2 June, 2007, Seoul, Korea.
27. One day seminar held by Alpine Floriculture at Namwon, South Korea on 4th April, 2007
26. National Seminar on Emerging trends in Plant Physiology
Botany Department, Gujarat University, Ahmedabad March, 10 – 12, 2005
(Delivered an invited lecture on recent Trends in pre and postharvest physiology of fruits and vegetables)
25. 92nd Indian Science Congress
Nirma University of Science & Technology, Ahmedabad
January 3 – 7, 2005
24. National Seminar on Plant Sciences
Organized by Department of Life Sciences, Bhavnagar University, Bhavnagar at Gandhinagar
25 – 27 November 2004
(Chaired one of the Technical Sessions)
23. All India Botanical Conference and National Symposium on Recent Trends in Plant Sciences
Department of Botany, Sri Krishnadevaraya University, Anantapur, A. P. October 29 – 31, 2004
22. Environmental Biotechnology and Biodiversity Conservation
Department of Biosciences Sardar Patel University, Vallabh Vidyanagar
31st January and 1st February 2003
21. Practical Course on "Molecular approaches of crop improvement"
International Centre for Genetic Engineering and Biotechnology (ICGEB) New Delhi
11th to 22nd November 2002.
20. Training Programme on Plant DNA Fingerprinting
National Research Centre (NRC) on DNA Fingerprinting of NBPGR, New Delhi
19th to 28th November 2001.
19. Orientation Training – cum – Workshop under HRD, NATP Mode Mission
NBPGR, New Delhi
27 February to 1 March 2001.
18. National Symposium on Sustainable Environment: Achievements and future prospects
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
4 – 6, January 2001.
17. National Symposium on Mycology at 2000 and beyond
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
21 – 23 December 1999.

16. National Symposium on Plant Morphogenesis: Biochemical and Molecular Approach
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
21 – 22 December 1998.
15. 86th Session of Indian Science Congress
Anna University, Chennai
3 – 7, January 1999.
14. 85th Session of Indian Science Congress
Osmania University, Hyderabad
3 – 7 January, 1998
13. National Symposium – cum Workshop on Plant Morphogenesis
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
29 – 30 December 1997.
12. UGC Major Research Project Monitoring Workshop
UGC Office, New Delhi
10th March 1997.
11. National Seminar–cum-Workshop on Perspectives of Research in Medicinal Plants
Gujarat Agricultural University, Anand Campus, Anand
1 – 3 March 1997.
10. 84th Session of Indian Science Congress
University of Delhi, Delhi
3 – 8 January 1997.
9. All India Symposium on Contemporary Studies on Plant Structure and Morphogenesis: In vivo and In vitro Morphogenesis
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
11 – 12 October 1996.
8. National Seminar on Contemporary Studies on Plant Structure and Morphogenesis
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
6 – 8 October 1995.
7. 18th Indian Botanical Conference
University of Jammu, Jammu
17 – 19 October 1995.
6. 80th Session of Indian Science Congress
Goa University, Goa
3 – 8 January 1993.
5. 79th Session of Indian Science Congress
M. S. University of Baroda, Baroda
3 – 8 January 1992
4. National Seminar on Modern Trends in Botany
Department of Botany, Poona University, Pune
21- 24 February 1991.
3. National Symposium on Current Trends in Biological Research
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
1- 3 December 1989.
2. 72nd Session of Indian Science Congress
Lucknow University, Lucknow
3 - 8 January 1985.
1. All India Symposium on Normal and Pathological Development and Structure of Economic Plants, Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, 2 - 5 November 1981.

REGIONAL:

36. Science Meet 2018 held under aegis of Gujarat Science Academy – Vallabh Vidyanagar Chapter, held by V. P. & R. P. T. P. Science College on January 21, 2018.
35. Participated as an Invited Expert in 13th AGRESCO of Crop Improvement Sub Committee of Anand Agricultural University during 14th and 15th March 2017 and Chaired one of the Technical Programs.
34. 2nd Andhra Pradesh Science Congress held at Vijayawada during 7 – 9 November, 2016.
33. AP Science Congress held at Tirupati during January 27 – 29, 2016.
32. XXVII Gujarat Science Congress
Charotar University of Science and Technology (CHARUSAT)
on 24th February 2013.
32. One Day Orientation workshop for Training Taskforce Groups – As a Member of Life Science Group conducted by Knowledge Consortium of Gujarat (KCG) at M. G. Science Institute, Ahmedabad on 1st October 2011
31. One Day Workshop on “e- Content Development (NM-ICT)” organized by Sardar Patel University on 21st August, 2010.
30. State Level Workshop on combating Environment Degradation and Climate Change – A Roadmap for Gujarat
Gujarat Ecological Commission, Department of Forest & Environment, Govt. of Gujarat
22nd April 2010
29. XXIV Gujarat Science Congress
Gujarat University
March 21, 2010.
28. IVth GSA-VVN CSC Annual Science Meet “Science Meet: 2010”
Department of Mathematics, Sardar Patel University, Vallabh Vidyanagar
14th February, 2010.
27. Faculty Development Programme based on the Topic “Kindling Creativity” held by ICFAI’s IFEN-IU Flexi of V V Nagar Branch. Dec. 1, 2009.
26. Vigyan Paryavaran Aur Bagadta Prakrutik Santulan
Department of Botany, M. S. Univeristy of Baroda, Vadodara
14th November 2009
25. IVth GSA-VVN CSC Annual Science Meet “Science Meet: 2009”
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
2nd February, 2009.
24. State Level Seminar on Current Trends in Environmental Sciences
N. V. Patel /College of Pure and applied Sciences, Vallabh Vidyanagar
20th September 2008
23. National Seminar on new horizons in Biological Sciences
Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat during 23 September 2007.
22. 19th Gujarat Science Congress
Sardar Patel University, Vallabh Vidyanagar
19th February 2005.
21. One Day Workshop on UGC – Infonet e - journals
G. H. Patel Computer Centre, Sardar Patel University
April 1, 2004
20. International Agri -Tech - 2004 Seminar on Post –harvest Technology for Value Addition
Gujarat Agricultural University, Anand Campus, Anand
January 7, 2004
19. One Day workshop on Modern Biological Techniques
Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar
12th December 2003

18. One Day Seminar on DNA Structure and Genome Analysis
Organized by Society of Biological Chemists at Surya Hotel, Baroda
28th September, 2003
17. UGC sponsored State Level Seminar on Recent Trends in Plant Morphogenesis
P. G. Centre in Botany, Smt. S. M. Panchal Science College, Talod
25 & 26 November 2003..
16. UGC sponsored State Level Seminar on Recent Trends in Plant Sciences
P. G. Centre in Botany, Smt. S. M. Panchal Science College, Talod
25 & 26 November 2000.
15. One day Seminar on Bio-Resource Wealth of Gujarat – Its Conservation and Sustainable Utilization, N. V. Patel College of Pure and Applied Sciences and SICART, Vallabh Vidyanagar
19th November 2000.
14. Group Meeting for Cooperators on Conservation of Agro biodiversity in Arid Region Programme, Sardar Patel University, Vallabh Vidyanagar
20th June 2000
13. 15th Gujarat Science Congress
M. S. University, Baroda
12 – 13 February 2000.
12. One day Symposium on Recent Advances in Biochemistry
Sardar Patel University, Vallabh Vidyanagar
22nd January 2000.
11. Seminar on Science and Technology in the Next Millennium
SICART, Vallabh Vidyanagar
5th December 1999.
10. One day Seminar on Gujarat – Its Environment and Challenges
N. V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar
19th October 1999.
9. One day Workshop on Pollution: Regional Problems & Solutions
Sardar Patel University, Vallabh Vidyanagar
25th April 1999.
8. One day Seminar on Role of Plant Sciences in Changing Scenario
M. S. University, Baroda
13th February 1999.
7. One day Seminar on Strategies for Sustainable Agriculture
Sardar Patel University, Vallabh Vidyanagar
8th February 1998.
6. 16th Annual Meeting of Gujarat Biosciences Society
Gujarat University, Ahmedabad
15th March 1997.
5. 12th Gujarat Science Congress, Sardar Patel University, Vallabh Vidyanagar
15 – 16 February 1997.
4. One day Symposium on Microbiology – The Widening Horizons
Sardar Patel University, Vallabh Vidyanagar
2nd February 1997.
3. 11th Gujarat Science Congress
Physical Research Laboratory, Ahmedabad
18 – 19 February 1996.
2. One day Symposium on Transfer of Technology to Rural Population:
Microbiology Technology
Sardar Patel University, Vallabh Vidyanagar
27th January 1996.
1. 8th Gujarat Science Congress
Saurashtra University, Rajkot
16 – 17 January 1993.

List of abstracts of research papers contributed during various Symposia, Conferences, Seminars etc.

163. Sayali K. More and T.V.Ramana Rao

Participated in conference entitled, "UGC-CPEPA Sponsored National seminar on Applied Polymer Science and Technology (NSAPST-2019)." Organized by Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar which held in Vallabh Vidyanagar from 24th -25th January 2019. Paper entitled, "**Enhancement of postharvest shelf life of guava by using gum arabic and guar gum based edible coatings enriched with an essential oil.**" was presented under **Poster category**, under the thematic area of **Polymers from bio-renewable resources**.

162. Sayali K. More and T.V.Ramana Rao

Participated in conference entitled, "Indian Science Congress" Organized by Lovely Professional University which held in Jalandhar from 03rd January to 7th January 2019. Paper entitled, "**Gum acacia based edible coating combined with physical elicitors maintains nutritional quality and improves postharvest shelf life of mango.**" was presented under **Poster category**, under the thematic area of **Plant Sciences**.

161. Sayali K. More and T.V.Ramana Rao

Participated in conference entitled, "CSIR-IICT Platinum Jubilee International Conference on Biotechnological Research and Innovation for Sustainable Development." Organized by CSIR IICT which held in Hyderabad from 22nd November to 25th November 2018. Paper entitled, "**Photosensitization in combination of ozone gas delays the postharvest ripening of stored tomato.**" was presented under **Poster category**, under the thematic area of **Food and Agricultural Biotechnology**.

160. Sayali K. More and T.V.Ramana Rao

Photosensitization mediated improvement of postharvest shelf life and quality maintenance of banana presented under POSTER session by Sayali K. More during 2nd National Conference on Current Trends in Biological Sciences (CTBS)- II Organized by Department of Biosciences, Sardar Patel University during February 9, 2018.

159. T. V. Ramana Rao

Affordable, safe, eco-friendly and innovative technologies for reducing postharvest losses of fruits and vegetables International Symposium on 'Biodiversity of Medicinal Plants & Orchids: Emerging Trends and Challenges' (BMPO 2018) during 9-11 February, 2018

158. Sayali K. More and T.V.Ramana Rao

A preliminary study on the sanitization techniques for post harvest shelf life enhancement of papaya (*Carica papaya* L.) presented under POSTER session by Sayali K. More during National Conference of Plant Physiology 2017 organized by Department of Plant Physiology, Indira Gandhi Krishi Vishwavidyalaya, Raipur during November 23 – 25, 2017.

157. T. V. Ramana Rao

Emerging Green Technologies for improving post-harvest quality and safety of fruits and vegetables" APSC-2017, by Andhra University, Vishakapatnam during 7- 9 November, 2017.

156. Sayali K. More and T.V.Ramana Rao

A preliminary study of enhancement of postharvest shelf life of Tomatoes (*Lycopersicon esculentum* Mill) with bio-coating alone and its combination with safe irradiation methods, presented under POSTER session by Sayali K. More during 2nd National Conference on Current Trends in Biological Sciences (CTBS) – 2017 Organized by Department of Biosciences, Sardar Patel University and Gujarat State Biotechnology Mission, Gandhinagar during January 20 – 21, 2017

155. Pinal B. Vyas, T. V. Ramana Rao and V. R. Thakkar

Effect of non-thermal processing technologies on the shelf life and nutritional quality of sweet pepper (*Capsicum annum* L.) stored at ambient temperature, presented under ORAL session by Pinal B. Vyas during 2nd National Conference on Current Trends in Biological Sciences (CTBS) – 2017 Organized by Department of Biosciences, Sardar Patel University and Gujarat State Biotechnology Mission, Gandhinagar during January 20 – 21, 2017.

154. Sonu Sharma and **T. V. Ramana Rao**

Presented under POSTER session by Sonu Sharma during National Symposium on Exploring Advances in Biological Sciences held by Department of Biosciences, Sardar Patel University on March 5, 2016.

153. Kaushik Jodhani and **T. V. Ramana Rao**

An eco-friendly bio-based multi-component edible coating emulsion mediated improvement of post-harvest shelf life and quality maintenance of Prickly pear fruit (*Opuntia ficus indica* Mill.), presented in India International Science Festival, during 4 -8th December, 2015 organized by Ministry of Science and Technology and Earth Sciences Government of India.

152. Pinal B. Vyas, **T. V. Ramana Rao***, V. R. Thakkar

Enhancement of storage life and quality maintenance of phalsa (*Grewia asiatica* L.) fruit using polysaccharide based bi-layer coatings at two different storage conditions, 2nd International Conference on Global Food Security will be held at Cornell University Ithaca NY, USA, during 11th to 14th October, 2015.

151. Sonu Sharma and **T. V. Ramana Rao**

Polysaccharide based multilayered edible coating incorporated with microencapsulated citral into beta-cyclodextrin enhances quality of fresh-cut mango, submitted in UGC sponsored National conference on 'Latest Developments in Basic and Applied Sciences' organized by M. B. Patel Science College, Anand, India on 10th January, 2015.

150. A. S. Nandane, Rudri K. Dave, **T. V. Ramana Rao**
Optimization of edible coating formulations containing Mulberry Leaf Extract for improving Post-harvest quality and shelf life of Mulberry (*Morus alba* L.) presented in International Conference on 'Emerging Challenges in Biotechnology, Human Health and Environment' organized by Devi Ahilya University Indore, India, held during December 18-20, 2014.
149. Nilanjana S. Baraiya, **T.V. Ramana Rao**, V. R. Thakkar
Improving post harvest quality and storability of Peach fruit (*Prunus persica* L. var. Alton) using zein and chitosan coating enriched with Ascorbic acid - presented in International Conference on 'Emerging Challenges in Biotechnology, Human Health and Environment' organized by Devi Ahilya University Indore, India, held during December 18- 20, 2014.
148. Rudri K. Dave, **T. V. Ramana Rao**, A. S. Nandane
Optimization of edible coating formulations for improving Post-harvest quality and shelf life of Phalsa (*Grewia asiatica* L.) submitted in 102nd Indian Science Congress-2015 on Science and Technology for Human Development organized by University of Mumbai, Mumbai, held on 3-7 January, 2015.
147. Kaushik Jodhani and **T. V. Ramana Rao**
Combined effects of biopolymer coating and clove oil to prolong the shelf life and maintain quality of strawberries (*Fragaria x ananassa* Duch.) submitted in National Seminar on Strategies to understand and sustainable utilization of plant wealth organized by Department of Botany, Gujarat University, Ahmadabad, India, held on 29th-30th September, 2014.
146. Sonu Sharma and **T. V. Ramana Rao**
Calcium chloride treatment combined with hot water dip maintains quality of fresh-cut cantaloupe (*Cucumis melo* L.) submitted in National Seminar on Strategies to understand and sustainable utilization of plant wealth organized by Department of Botany, Gujarat University, Ahmadabad, India, held on 29th-30th September, 2014.
145. Nilanjana S. Baraiya, **T. V. Ramana Rao**, V. R. Thakkar
Improvement of postharvest quality and shelf life of cherry tomatoes (*Lycopersicon esculentum* Mill cv. Red pear) using UV-C treatment combined with chemical elicitors submitted in National Seminar on Strategies to understand and sustainable utilization of plant wealth organized by Department of Botany, Gujarat University, Ahmadabad, India, held on 29th-30th September, 2014.
144. Pinal B. Vyas, **T. V. Ramana Rao**, V. R. Thakkar
Improving storage life and quality of plum (*Prunus salicina* L. cv. Santa rosa) with polysaccharide based edible coatings submitted in National Seminar on Strategies to understand and sustainable utilization of plant wealth organized by Department of Botany, Gujarat University, Ahmadabad, India, held during 29th-30th September, 2014.
143. **T. V. Ramana Rao**
Affordable, safe and eco-friendly technologies for reducing post-harvest losses of fruits and vegetables, during Globle summit on "Emerging Science and Technologies: Impact on Environment & Human Health", organized by Department of Biotechnology, Vikrama Simhapuri University, Nellore, Andhra Pradesh and UNT Health Science Center, Fortworth Texas, USA held during 01- 03 August, 2014
142. **T.V. Ramana Rao** and Soumya V.
Nutraceutical potential of icebox watermelon fruit during its development and ripening submitted to Cucurbitaceae-2014 to be held during 12th to 16th October 2014 at Bay-Harber Michigan, USA
141. **T.V. Ramana Rao**, Dhara M. Patel, Nilanjana S. Baraiya, Pinal B. Vyas
Enhancement of post-harvest quality and shelf life of Ber (*Ziziphus mauritiana* L.) fruit by composite coating of sodium alginate and olive oil during 101st Indian Science Congress-2014 on Innovations in Science and Technology for Inclusive Development held during February 3-7, 2014 held at University of Jammu, Jammu.

140. Soumya V. and **T. V. Ramana Rao**
 Nutraceutical properties and enzyme activity profiles of yellow fleshed watermelon fruit during its development and ripening. National Conference of Plant Physiology-2013 on Current Trends in Plant Biology Research held during 13th – 16th December, 2013, organized by Directorate of Groundnut Research, Junagadh and Indian Society for Plant Physiology, New Delhi, in association with Junagadh Agricultural University, Junagadh.
(Second Prize - Young Scientist award)

139. Rudri Dave, **T. V. Ramana Rao** and A. S. Nandane
 Development and optimization of edible coating formulations for improving Post-harvest quality of Pear (*Pyrus communis* L.cv. Babughosha) using RSM. National Conference of Plant Physiology-2013 on Current Trends in Plant Biology Research held during 13th – 16th December, 2013, organized by Directorate of Groundnut Research, Junagadh and Indian Society for Plant Physiology, New Delhi, in association with Junagadh Agricultural University, Junagadh.

138. Sonu Sharma and **T. V. Ramana Rao**
 Effect of storage temperatures and minimal processing on the antioxidant and sensory properties of four mango cultivars. International Conference on Plant Biochemistry and Biotechnology in Food and Nutritional Security and XII Convention of Indian Society of Agricultural Biochemists, Kanpur held during 11th – 14th December, 2013, organized by Department of Biochemistry, Sri Venkateswara University, Tirupati.

137. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
 Storage behavior of phalsa (*Grewia asiatica* L.) fruit affected by postharvest application of chemical treatments and storage conditions. International Conference on Plant Biochemistry and Biotechnology in Food and Nutritional Security and XII Convention of Indian Society of Agricultural Biochemists, Kanpur held during 11th – 14th December, 2013, organized by Department of Biochemistry, Sri Venkateswara University, Tirupati.

136. Nilanjana Baraiya, **T. V. Ramana Rao** and V. R. Thakkar
 Improving Jamun fruit (*Syzygium cumini* L.) quality and postharvest storability by zein coating enriched with antioxidants. International Conference on Plant Biochemistry and Biotechnology in Food and Nutritional Security and XII Convention of Indian Society of Agricultural Biochemists, Kanpur held during 11th – 14th December, 2013, organized by Department of Biochemistry, Sri Venkateswara University, Tirupati.

135. Sonu Sharma and **T. V. Ramana Rao**
 Edible coating emulsions mediated improvement of nutritional quality and safety of fresh-cut pineapple (*Ananas comosus* [L.] Merr.). 3rd International Science Congress organized by International Science Congress Association during 8th and 9th December, 2013, held in Karunya University, Karunya nagar, Coimbatore, Tamil nadu.
(First Prize – Oral presentation)

134. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
 Postharvest decay control and improvement of nutritional quality of Cape gooseberry (*Physalis peruviana* L.) fruit using coatings of xanthan gum, guar gum and their combinations with olive oil. 3rd International Science Congress organized by International Science Congress Association during 8th and 9th December, 2013, held in Karunya University, Karunya nagar, Coimbatore, Tamil nadu.

133. Nilanjana Baraiya, **T. V. Ramana Rao** and V. R. Thakkar
 Combined effects of hot water treatment and chemical elicitors in improving post harvest quality and shelf life of Jamun fruit (*Syzygium cumini* L.). 3rd International Science Congress organized by International Science Congress Association during 8th and 9th December, 2013, held in Karunya University, Karunya nagar, Coimbatore, Tamil nadu.

132. Soumya V. and **T. V. Ramana Rao**
 Biochemical attributes based nutritional quality evaluation of watermelon fruit at its different stages development and ripening in IPDEB-2013 during 15-17 Nov 2013, Organised by CISST, SPU, Vallabh Vidyanagar

131. Sonu Sharma and **T. V. Ramana Rao**
In vitro analysis of antioxidant and antibacterial potential of peels of pear (*Pyrus communis* L.) fruit in IPDEB-2013 during 15-17 Nov 2013, Organised by CISST, SPU, Vallabh Vidyanagar.
130. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
 Improvement of postharvest quality and shelf life of custard apple (*Annona squamosa* L.) fruit by using chitosan coating enriched with anti-browning and antimicrobial compounds in IPDEB-2013 during 15-17 Nov 2013, Organised by CISST, SPU, Vallabh Vidyanagar
129. Nilanjana Baraiya, **T. V. Ramana Rao** and V. R. Thakkar
 Post harvest improvement of shelf life and nutritional quality of red seeded grapes (*Vitis vinifera* L. var. Red Globe) with layer-by-layer electrostatic deposition of edible coatings IPDEB-2013 during 15-17 Nov 2013, Organised by CISST, SPU, Vallabh Vidyanagar.
125. Sonu Sharma and **T. V. Ramana Rao**
 Impact of UV-C irradiation on health promoting compounds and sensory attributes of fresh-cut pineapple (*Ananas comosus* [L.] Merr.). International conference on Plant Biotechnology, Molecular Medicine and Human Health and 7th Annual Convention of ABAP to be held during 18-20 October, 2013, organized by Department of Genetics, University of Delhi South Campus, New Delhi.
124. Soumya V. and **T. V. Ramana Rao**
 Nutritional quality evaluation of icebox watermelon during its development and ripening. National conference on "Plant Biology- Plants, People, and Planet" held during 24-27 September, 2013, organized by Department of Botany Bangalore University, Bangalore.
123. Sonu Sharma and **T.V. Ramana Rao**
 Influence of minimal processing on the bioactive compounds of 'Ladvo' mango under two different storage temperatures. National Conference on Recent advance in Life Sciences and Chemical Science held on 10th August 2013 organized by M. B. Patel Science College, Anand.
122. Nilanjana Baraiya, **T. V. Ramana Rao** and V. R. Thakkar
 Postharvest application of composite edible coatings for extending storability and for improving the nutritional quality of carambola (*Averrhoa carambola* L.) XXVII Gujarat Science Congress on February 24, 2013.
121. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
 Influences of postharvest chemical and heat treatments on shelf life and quality of custard apple (*Annona squamosa* L.) XXVII Gujarat Science Congress on February 24, 2013
120. **T. V. Ramana Rao** and Soumya V. Menon
 Nutritional quality of watermelon fruit of two icebox cultivars as revealed by their biochemical composition and enzyme activities. Indian Science Congress, 3rd Jan. –7th Jan., 2013 held at Kolkata.
119. Sonu Sharma and **T. V. Ramana Rao**
 Influence of minimal processing on the physiological and qualitative properties of fresh-cut watermelon (*Citrullus lanatus* (Thunb.) Matsum. & Nakai). DAE-BRNS Life Sciences Symposium 2012 (LSS-2012) on Trends in Plant, Agriculture and Food Sciences (TIPAFS) held at Bhabha Atomic Research Centre in Anushaktinagar, Mumbai on 17th -19th Dec. 2012.
118. Nilanjana S. Baraiya, **T.V. Ramana Rao** and V. R. Thakkar
 Influence of composite edible coatings along with some phenolic compounds on shelf life and quality of Grapes (*Vitis vinifera*). National Seminar on Plant Physiology at Hyderabad on 12th to 14th Dec. 2012.

117. Pinal B. Vyas, **T. V. Ramana Rao** and V. R. Thakkar
Response of postharvest treatments and storage temperatures on the quality and shelf life of phalsa (*Grewia asiatica* L.) fruit.
National Seminar on Plant Physiology held at Hyderabad on 12th to 14th Dec. 2012.
116. Soumya V. Menon and **T. V. Ramana Rao**
Nutritional composition and related enzyme activities of three different cultivars of muskmelon fruit during their development and ripening. All India Botanical Conference, 8th to 10th Dec. 2012 held at M. S. University of Baroda, Vadodara.
115. Uma kuwar, Sonu Sharma and **T. V. Ramana Rao**
Shelf-life extension and quality improvement of fresh-cut papaya fruit by application of novel edible coatings. All India Botanical Conference, 8th to 10th Dec. 2012 to be held at M. S. University of Baroda, Vadodara.
114. Neeta B. Gol and **T. V. Ramana Rao**
Efficacy of edible coatings in quality maintenance and shelf life extension of pink fleshed guava (*Psidium guajava* L.) fruit. International Conference and Exhibition on Food Processing and Technology held at Hyderabad on 22nd to 24th Nov. 2012.
113. Soumya V. Menon and **T. V. Ramana Rao**
Nutritional potential of two icebox cultivars of watermelon based on their biochemical composition and enzyme activities during development and ripening. During International Conference and Exhibition on Food Processing and Technology t held at Hyderabad on 22nd to 24th Nov. 2012.
112. Sonu Sharma and **T. V. Ramana Rao**
Quality preservation of fresh-cut 'Naspati' and 'Babugosha' pear (*Pyrus communis* L.) fruit using Xanthan gum and cinnamic acid. International Conference and Exhibition on Food Processing and Technology held at Hyderabad on 22nd to 24th Nov. 2012.
111. **T. V. Ramana Rao**
Edible cotings for the improvement of postharvest quality and shelf-life of fruits and vegetables. Andra Pradesh Science Congress-2012 on Innovation in Science, Technology and Mathematics (ISTAM) held at Andra Pradesh on 14th – 16th Nov., 2012.
110. Sonu Sharma and **T. V. Ramana Rao**
Effect of honey and L-cystenie as antioxidants on the quality attributes of fresh-cut carambola (*Averrhoa carambola* L.) stored at two different temperatures. During 26th Gujarat Science Congress held at M. S. University of Baroda, Vadodara on 26 February 2012.
109. Nilanjana S. Baraiya, Neeta B. Gol and **T.V. Ramana Rao**
Biochemical and nutritional quality studies of tomato fruit & enhancement of their shelf life by using polysaccharide based edible coatings. Submitted for its presentation during Seminar on "Physiological and Molecular interventions on sustainable crop productivity under changing climatic conditions" held at Directorate of Medicinal and Aromatic Plants, Boriavi, Anand on 17th January 2012.
108. Pinal B. Vyas, Neeta B. Gol and **T. V. Ramana Rao**
Effects of polysaccharide based edible coatings on postharvest quality of papaya (*Carica papaya* L.) Submitted for its presentation during Seminar on "Physiological and Molecular interventions on sustainable crop productivity under changing climatic conditions" held at Directorate of Medicinal and Aromatic Plants, Boriavi, Anand on 17th January 2012.
107. Soumya V. Menon and **T. V. Ramana Rao.**
Variation in antioxidants, carbohydrates and their related enzymes of muskmelon (cv. Maduri) fruit at different stages of development and ripening under the session "Postharvest Physiology of perishables and senescence" during National Seminar of Plant Physiology held at Ramnarain Ruia College, Matunga, Mumbai during 24 to 26 November, 2011 (**Best Poster Presentation Award**)

106. Neeta B. Gol and **T. V. Ramana Rao.**
Effect of polysaccharide based edible coatings on the quality characteristics and the activities of softening enzymes of jamun (*Syzyium cumini* L.) fruit. National Seminar of Plant Physiology held at Ramnarain Ruia College, Matunga, Mumbai during 24 to 26 November, 2011 (**Third Prize - Young Scientist Award**)
105. Neeta B. Gol and **T. V. Ramana Rao.**
Effect of protein based edible coatings on the quality characteristics and the enzyme activities of mango (*Mangifera indica* L.) fruit. National Symposium on Evolving Paradigm to Improve Productivity from Dynamic Management and Value Addition for Plant Genetic Resources, Organized by Department of Botany, Gujarat University, Ahmedabad on 13th to 15th October, 2011.
104. Soumya V. Menon and **T. V. Ramana Rao.**
Quality attributes of four icebox cultivars of watermelon fruit during its development and ripening. National Symposium on Evolving Paradigm to Improve Productivity from Dynamic Management and Value Addition for Plant Genetic Resources, Organized by Department of Botany, Gujarat University, Ahmedabad on 13th to 15th October, 2011.
103. Manu L. Chaudhari, **T. V. Ramana Rao**, Neeta B. Gol,
Effect of carboxymethyl cellulose and carrageenan on the quality of carambola fruit during storage to be presented during 99th Session of Indian Science Congress held at Bhubaneswar during Jan. 3 to 7, 2011.
102. Sonu Sharma and **T. V. Ramana Rao.**
Quality of fresh cut papaya as influenced by polysaccharide-based edible coatings and chemical dip. National Symposium on status, challenges and opportunities. Life-Sciences organized by Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and allied Sciences (ARIBAS), New Vallabh Vidyanagar on September 10, 2011.
101. Soumya V. Menon and **T. V. Ramana Rao.**
Changes in the bioactive compounds and antioxidant enzymes during the development and ripening of muskmelon fruit. National Symposium on status, challenges and opportunities. Life-Sciences organized by Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and allied Sciences (ARIBAS), New Vallabh Vidyanagar on September 10, 2011.
100. Neeta B. Gol and **T. V. Ramana Rao.**
Application of protein- based edible coatings to extend the postharvest shelf-life of mango (*Mangifera indica* L.) fruit. National Symposium on status, challenges and opportunities. Life-Sciences organized by Ashok and Rita Patel Institute of Integrated Study and Research in Biotechnology and allied Sciences (ARIBAS), New Vallabh Vidyanagar on September 10, 2011 (**Awarded Second Prize - Oral Presentations**).
99. Soumya V. Menon and **T. V. Ramana Rao.**
Changes in the phytochemicals and activities of antioxidant enzymes in muskmelon during different rates of its ripening.
XXV-Gujarat Science Congress organized by Gujarat Science Academy and Gujarat Science City, Ahmedabad on February 26-27, 2011 (**Awarded Second Prize - Oral Presentations**).
98. Sonu Sharma and **T. V. Ramana Rao.**
Physiological and Biochemical changes in fruit of pumpkin (*Cucurbita maxima* Duchesne) during growth and ripening
XXV-Gujarat Science Congress organized by Gujarat Science Academy and Gujarat Science City, Ahmedabad on February 26-27, 2011.
97. Soumya V. Menon and **T. V. Ramana Rao.**
Biochemical composition and enzyme activities in relation to nutritional quality of the fruits of two icebox cultivars of watermelon.
National Conference on Trends in Biological Sciences organized by B.R.D. School of Biosciences, Vallabh Vidyanagar, Gujarat on January 28-29, 2011 (**Awarded First Prize - Oral Presentations**).

96. **T. V. Ramana Rao** and Jay B. Pandya.
Improvement of health promoting properties of watermelon fruits by using mineral nutrition management and grafting techniques.
2nd International Seminar on Medicinal Plants and Herbal Products held on December 27-29, 2010 at Sri Venkateswara University, Tirupati
95. Soumya V. Menon and **T. V. Ramana Rao**.
Biochemical changes during the development and ripening of Muskmelon (*Cucumis Melo* L.)
98th Indian Science Congress held during January 3-7, 2011 at SRM University, Chennai.
94. Khilana K. Shah, Neeta B. Gol and **T. V. Ramana Rao**.
Impact of postharvest treatments and packaging on enzymes of sweet pepper (*Capsicum annum* L.) in different storage conditions.
98th Indian Science Congress held on January 3-7, 2011 at SRM University, Chennai.
93. Soumya V. Menon and **T. V. Ramana Rao**.
Biochemical changes in watermelon (*Citrullus Lanatus* (Thumb.) Matsum & Nakai.) fruit with different rates of ripening.
National Conference of Plant Physiology held on November 25-27, 2010 at Banaras Hindu University, Varanasi.
92. Neeta B. Gol and **T. V. Ramana Rao**.
Impact of postharvest treatments on the phytochemical and nutritional quality of tomato (*Lycopersicon esculentum* mill.) fruit with an emphasis of extending its shelf life.
National Conference of Plant Physiology held on November 25-27, 2010 at Banaras Hindu University, Varanasi.
91. Soumya V. Menon and **T. V. Ramana Rao**
Changes in the activities of enzymes associated with watermelon fruit development and ripening. Under Botany Section A2 – 05 of XXIV Gujarat Science Congress held on 21st March 2010 at Gujarat University, Ahmadabad (**Awarded First Prize - Oral Presentations**).
90. Nirupama, P., Neeta, G. B., **Tadapaneni, V. R. R.**
Influence of postharvest chemical treatments on the shelf life and physicochemical characteristics of tomato (*Lycopersicon esculentum* Mill.) - Contributed for 28th International Horticultural Congress held at Lisboa, Portugal during 22 – 27 August 2010.
89. Prakash R. Patel and **T. V. Ramana Rao**
Screening of antibacterial activity of some selected underutilized fruits.
Paper was presented in oral session during 97th Indian Science Congress held at Thiruvananthapuram, Kerala from January 3 – 7 2010.
88. Soumya V. Menon and **T. V. Ramana Rao**
Phytochemical profiling of watermelon (*Citrullus lanatus* Matsum and Nakai) in relation to its growth and ripening. Presented an oral paper during the National Seminar on Frontiers in Life Sciences organized by N. V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar, Gujarat during 19th December, 2009
87. Neeta B. Gol and **T. V. Ramana Rao**
Effect of post-harvest treatments on the nutritional quality and shelf life of mango (*mangifera indica* l.). Presented an oral paper during the National Seminar on Frontiers in Life Sciences organized by N. V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar, Gujarat during 19th December 2009.
86. **T. V. Ramana Rao** and Jay B. Pandya
Analysis of certain biochemical changes associated with growth and ripening of pumpkin fruit in relation to its seed development.
Paper was accepted for its oral presentation during the 4th International Cucurbitacea e symposia held during Sept 21-26, 2009 at Changsssha, Hunan, China.
85. Jay B. Pandya and **T. V. Ramana Rao**
Compatibility analysis of different types of root stocks for grafting of watermelon plants.
Presented a poster during National Seminar on Emerging areas in Plant Sciences at M. S. University of Baroda on 22nd February 2009.

84. Prakash R. Patel and **T. V. Ramana Rao**
 Certain physiological changes in relation to growth and ripening of Karanda (*Carissa carandus* L.) fruit
 Presented an oral paper during IVth GSA- VVN CSC Annual Science Meet “Science Meet: 2009” held at Department of Biosciences, Sardar Patel University, Vallabh Vidyanagar, Gujarat on 2nd February, 2009.
83. Neeta B. Gol, Prakash R. Patel and **T. V. Ramana Rao**
 Physico-chemical changes during growth and development in an underutilized fruit, Sunberry (*Physalis minima* L.)
 Presented a poster during 96th Session of Indian Science Congress held at Shillong from Jan. 3 to 7, 2009.
82. Prakash R. Patel and **T. V. Ramana Rao**
 Certain biochemical changes in relation to development and ripening of Gunda (*Cordia dichotoma* Forst. f.), an underutilized fruit.
 Presented a poster during 96th Session of Indian Science Congress held at Shillong from Jan. 3 to 7, 2009.
81. Prakash R. Patel and **T. V. Ramana Rao**
 Certain compositional changes in relation to development and ripening of Spanish cherry (*Mimusops elengi* L.)
 Presented a poster during Golden Jubilee Conference on Challenges and emerging strategies for improving plant productivity organized by Indian Society for Plant Physiology and Indian Agricultural Research Institute held at New Delhi during November 12 to 14, 2008.
80. **T. V. Ramana Rao**
 Misconceptions in Teaching about Plants
 Taxonomy Teaching and Research : the Relevance in the National Context
 Presented during National Conference organized by R.K. Parikh Arts and Science College, Petlad, Gujarat during 27th September 2008.
79. **T. V. Ramana Rao**, Sung-Whan Kwon and Yong Kyu Shin
 Chilling stress in watermelon seedlings
 Presented during International Symposium on Stress in plants held on Nov. 8, 2007 at Gwanju, Korea
78. Sung-Whan Kwon, **T. V. Ramana Rao** and Yong Kyu Shin
 Source and sink relations between the growth of the vegetative parts and fruit of watermelon plant.
 Presented during Conference of the Korean society for horticultural sciences and Korean society for bio-environment control, Autumn 2007 (October 26-27, 2007) held by.....:
77. **T. V. Ramaana Rao**, Sung-Whan Kwon and Yong Kyu Shin
 Evaluation of efficacy of some chemical protectants against chilling injury of young watermelon plants: a chlorophyll fluorescence based study.
 Presented during Conference of the Korean society for horticultural sciences and Korean society for bio-environment control, Autumn 2007 (October 26-27, 2007) held by.....:
76. Vinay R. Patel and **T. V. Ramana Rao**
 Histo-architectural and biochemical integration in organically grown *Lagenaria leucantha* (Roxb.) Rusby with an emphasis on the relationships between the parent plant and the developing fruit.
 Presented during National Seminar on new horizons in Biological Sciences held at Vallabh Vidyanagar, Anand, Gujarat during 23 September 2007.
75. Prakash R. Patel and **T. V. Ramana Rao**
 Changes in the activity of cell wall degrading enzymes during fruit development and its ripening in muskmelon (*Cucumis melo* L.)
 Presented during National Seminar on new horizons in Biological Sciences held at Vallabh Vidyanagar, Anand, Gujarat during 23 September 2007.

74. **T. V. Ramana Rao**, Sung, Whan Kwon* and Yong Gyn Shin
Effect of Mg and K on growth and sugar accumulation in watermelon (*Citrullus lanatus* Thunb) fruit.
Presented during the Conference of the Korean Society for Horticultural Science, Spring 2007 (June 1 – 2, 2007) held by Korea University, Seoul.
73. **T. V. Ramana Rao**, Sung, Whan Kwon* and Yong Gyn Shin
Chilling tolerance and physiological parameters as influenced by selected chemical protectants in young watermelon plants.
Presented during the Conference of the Korean Society for Horticultural Science, Spring 2007 (June 1 – 2, 2007) held by Korea University, Seoul.
72. Prakash R. Patel and **T. V. Ramana Rao**
Biochemical changes associated with the development and ripening of muskmelon (*Cucumis melo* L.) fruit:: A preliminary study
Presented during 94th Session of Indian Science Congress held at Noida during Jan. 3 – 7, 2007.
71. Yash Dave and **T. V. Ramana Rao**
A morpho-histogenic study of the fruit of *Pedaliium murex* L.
Presented during 94th session of Indian Science Congress Association held at Noida during Jan. 3-7, 2007.
70. Prakash R. Patel and **T. V. Ramana Rao**
Certain physiological changes associated with the development and ripening of Jamun (*Syzygium cumini* L.) fruit
Paper was accepted during National Seminar on Plant Physiology held at Vellanikkara, Thrissur, Kerala during 28 – 30 November, 2006.
69. Payal T. Shah, Prakash R. Patel and **T. V. Ramana Rao**
Cell wall changes associated with fruit softening in Ivy gourd (*Coccinia grandis* (L.) voigt): An aid in fruit biotechnology
Presented during International Conference on Exploring Horizons in Biotechnology: A global venture, Organized by Department of Biosciences Sardar Patel University during November 2 – 4, 2006,
68. Yash Dave and **T. V. Ramana Rao**
Structure, development and dehiscence of the fruit of *Sesamum indicum* L. (Pedaliaceae)
Presented during 29th Annual Conference of Indian Botanical Society held at Udaipur during 9 – 11 October, 2006.
67. Yash Dave and **T. V. Ramana Rao**
Structure and development of the fruit of *Martynia diandra* Glox. (Syn. *M. annua* L.) with a view of its endoskeleton.
Presented during 17th International Symposium on Biodiversity and Evolutionary Biology held during 24 - 28 September 2006 at Bonn, Germany.
66. Joseph, G. V. R. and **T. V. Ramana Rao**
Micromorphological and pharmacognostic analysis of surface features of the fruit of *Mallotus philippensis* Muell-arg. (Euphorbiaceae)
Presented during National Symposium on Current Trends in Medicinal plants and Herbal Technology held at Pondicherry during 22- 24, July 2006.
65. Yash Dave, **T. V. Ramana Rao** and Kajal G. Patel
Ultra-structure of the developing pericarp of *Sesamum indicum* L. (Pedaliaceae)
Paper presented during 93rd Session of Indian Science Congress to be held at Hyderabad from Jan. 3 to 7, 2006.
64. Prakash R. Patel and **T. V. Ramana Rao**
Physiology of fruit ripening in two cultivars of *Cucumis melo* L. A preliminary study (Ab. No. VII-P7, page No.155)
Presented during National Seminar on Plant Physiology held on 23rd to 25th Novemebr 2005 at Navasari Agricultural University, Navasari.

63. Kajal G. Patel and **T. V. Ramana Rao**
Effect of simulated water stress on the physiology of leaf senescence in three genotypes of Cowpea (*Vigna unguiculata* (L.) Walp). (Ab. No. Nil, page No. 195)
Paper presented during National Seminar on Plant Physiology held on 23rd to 25th November 2005 at Navasari Agricultural University, Navasari.
62. G. M. Ramani and **T. V. Ramana Rao**
Biochemical changes associated with the development and ripening of organically grown fruit of *Psidium guajava* L. (Guava)
Paper was accepted for presentation during 1st International Guava Symposium held at Lucknow during 5 – 8 December 2005.
61. Sejal A. Patel and **T. V. Ramana Rao**
Biochemical analysis of development and ripening of organically grown papaya (*Carica papaya* L.) fruit.
Paper was accepted for presentation during First International Symposium on Papaya held at Genting Highlands, Malaysia during 22 – 24 November 2005.
60. Payal T. Shah, **T. V. Ramana Rao** and Prakash R. Patel
Physiological and biochemical changes associated with fruit development and ripening. In some Cucurbits
Paper was accepted for its presentation for 3rd International Symposium on Cucurbits held at Townsville, Australia during 11th to 17th September 2005.
59. Kajal G. Patel and **T. V. Ramana Rao**
Physiological changes during the development, maturation and senescence of leaves of Black gram (*Vigna mungo* (L.) Hepper) (Ab. No. Nill, Page No. 152)
Paper presented during XIX Gujarat Science Congress on Recent advances in Science and Technology held on 19th February 2005 at Department of Biosciences Vallabh Vidyanagar.
58. Payal T. Shah and **T. V. Ramana Rao**
Physiological and biochemical aspects of fruit ripening in parval (*Trichosanthes dioica* Roxb.) (Ab. No. Nill, Page No. 151)
Paper presented during XIX Gujarat Science Congress on Recent advances in Science and Technology held on 19th February 2005 at Department of Biosciences Vallabh Vidyanagar
57. Kajal G. Patel and **T. V. Ramana Rao**
Certain physiological changes associated with the leaf senescence of mung bean (*Vigna radiata* (L.) Wilczek ((Ab. No. 114 – Section XIV and Page No. 74)
Paper was presented during 92nd Session of Indian Science Congress held at Ahmedabad from Jan. 3 to 7, 2005.
56. **T. V. Ramana Rao** and Payal T. Shah
Physiology of developing and ripening of ivy gourd (*Coccinia indica* Weight and Arn.) fruit (Ab. No. 113 – Section XIV and Page No. 73)
Paper was presented during 92nd Session of Indian Science Congress held at Ahmedabad from Jan. 3 to 7, 2005.
55. **T. V. Ramana Rao** and Payal T. Shah
Physiological and biochemical changes associated with the development, maturation and ripening of Snake gourd (*Trichosanthes anguina* L.) fruit (Ab. No. Nil, Page No. Nil)
Paper was presented during National Seminar on Plant Physiology held at Department of Botany, University of Pune, Pune from 27th to 29th December 2004.
54. **T. V. Ramana Rao**
Certain strategies to improve post-harvest shelf life of fruits.
Paper was presented during National Seminar on Bioprocesses and Production Technologies (Ab. No. 30 Page No 41) held at Acharya Nagarjuna University, A. P. from 21st to 23rd December 2004.

53. **T. V. Ramana Rao** and Payal T. Shah
Physiology of fruit ripening in some cucurbits (Ab. No. 48/123 Page No. 23/49)
Paper presented during National Conference on Plant Sciences - 2004 held at Gandhinagar from 25th to 27th November 2004.
52. Yash Dave, **T. V. Ramana Rao** and Kajal G. Patel
Are there real extra-floral nectarines in Pedaliaceae? (Ab. No. Nil Section III, Page No. 32)
Paper presented during XXVII All India Conference of Indian Botanical Society held from October 29th to 31st 2004 at Botany Department of Sri Krishnadevaraya University, Anantapur, A. P.
51. **T. V. Ramana Rao** and Payal T. Shah
Certain physiological changes associated with the development, maturation and ripening of *Momordica balsamina* L. (Cucurbitaceae) (Ab. No. Nil, Section – V, page No. 69)
Paper presented during National Symposium on Recent Trends in Plant Sciences held during XXVII All India Conference of Indian Botanical Society from October 29th to 31st 2004 at Botany Department of Sri Krishnadevaraya University, Anantapur, 52. P.
50. Payal T. Shah and **T. V. Ramana Rao**
Physiology of fruit ripening
Paper presented during National Science Day Celebrations held on 27 – 28 Feb. 2004 at Department of Biosciences, Sardar Patel University.
49. K. G. Patel and **T. V. Ramana Rao**
Physiology of leaf senescence in blackgram (*Vigna mungo* (L.) Hepper) grown under drought condition. A preliminary study (Ab. No. PP – 29, Page Nos. 63 – 64)
Paper presented during National Symposium on Current Perspectives in Stress Biology held at Department of Botany, University of North Bengal on Feb. 6 – 8, 2004.
48. Sheela M. Pandey and **T. V. Ramana Rao**
Biochemical changes due to virus infection in cowpea (*Vigna unguiculata* (L.) Walp.) pusa phalguni (Ab. No. AE - 13., Page No. 40)
Paper presented during National Symposium on Environmental Biotechnology & Biodiversity Conservation held at Department of Biosciences, Sardar Patel University on 31st January and 1st February 2003.
47. Ch. Uma, **T. V. Ramana Rao** and Sheela M. Pandey
Response of *Coriandrum sativum* (L.) to the cement kiln dust pollution. (Ab. No. AE - 20, Page No. 43)
Paper presented during National Symposium on Environmental Biotechnology & Biodiversity Conservation held at Department of Biosciences, Sardar Patel University on 31st January and 1st February 2003.
46. Payal T. Shah and **T. V. Ramana Rao**
Fruit development and ripening in bitter gourd (*Momordica charantia* L.) (Ab. No. AE - 12, Page No. 39)
Paper presented during National Symposium on Environmental Biotechnology & Biodiversity Conservation held at Department of Biosciences, Sardar Patel University on 31st January and 1st February 2003.
45. **Ramana Rao, T. V.** and Ch. Uma
Impact of cement kiln dust pollution on *Capsicum frutescens* L. (Ab. No. PEO – 2, Page No. 15) Paper presented during National symposium on Sustainable environment: Achievements and Future Prospects held at Department of Biosciences, Sardar Patel University on 4-6 January 2001.
44. **Ramana Rao, T. V.** and Yash Dave
Histoarchitecture of the fruit wall of *Cleome viscosa* L. (Capparidaceae) (Ab. No. 112, Page No. 74) Paper presented during the 88th Session of Indian Science Congress to be held at Delhi, January 3-8, 2001.

43. **Ramana Rao, T. V.**, Neelam Bhatnagar and Yash Dave
Comparative morpho-histogenic and histochemical features of the fruits of Myrtaceae with discussion on taxonomic and phylogenetic relationships, (Ab. No. nil , Page No. nil)
Paper presented during UGC sponsored State level Seminar on Recent Trends in Plant Sciences held at P. G. Centre in Botany, Smt S. M. Panchal Science College, Talod, November 25 & 26, 2000.
42. Dave Yash, **T. V. Ramana Rao** and Neelam Bhatnagar
Comparative study on the structure and development of the fruits of Combretaceae with their taxonomic importance, (Ab. No. 4.02, Section IV: Phylogeny & Biodiversity, Page No.41)
Paper presented during National Seminar on Plant Biodiversity- Systematics, Conservation and Ethnobotany held at Department of Botany, North Bengal University, Siliguri, West Bengal, November 9-11, 2000.
41. Yash Dave and **T. V. Ramana Rao**
Histoarchitecture of the fruit wall of *Cleome gynandra*, (Ab. No. (Section III) 5 Page No. 32)
Paper presented during 23rd All India Botanical Conference held at Charan Singh University, Meerut, October 14-16, 2000.
40. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Morpho-histogenic and histochemical studies in some fruits of family Lythraceae with the use of its systematic value (Ab. NO. B6, Page No. nil)
Paper presented during 15th Gujarat Science Congress held at M. S. University, Baroda, February 12-13, 2000.
39. Yash Dave, **T. V. Ramana Rao** and M. Sebastian
The pericarp structure of *Papver somniferum* (Ab. No. 56, Page No. 41)
Paper presented during 87th Session of Indian Science Congress held at Pune, January 3-7, 2000.
38. **Ramana Rao, T. V.** and Yash Dave.
Histo- architecture of the fruit wall of *Cadaba fruiticosa* (L.) Druce (Capparidaceae) (Ab. No. XI, Page No. 65)
Paper presented during 22nd Annual Meeting of Indian Botanical Society held at Mumbai, October 23-25, 1999.
37. **Ramana Rao, T. V.** and Yash Dave
Morpho-histogenic studies of the fruit wall of *Argemone mexicana* L. (Papaveraceae) (Ab. No. 20, Page 14)
Paper presented during 86th Session Indian Science Congress held at Chennai, January 3-7, 1999.
36. Uma, Ch., **T. V. Ramana Rao** and Palak, H, Savlani
Biochemical responses of some economically important plants to cement kiln dust pollution: A comparative study (Ab. No. 11, Page No. nil)
Paper presented during National Symposium on Plant Morphogenesis: Biochemical and Molecular Approach held at Department of Biosciences, Sardar Patel University, December 21-22, 1998.
35. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Histo-architectural analysis in relation to the fruit development in *Gossypium hirsutum* L. (Ab. No. 54, Page No. 32)
Paper presented during 85th Session of Indian Science Congress held at Osmania University, Hyderabad, January 3-7, 1998.
34. Palak, H. Savlani, Sunitha Mary Oommen, **T. V. Ramana Rao**, I. L. Kothari, G. B. Valand and A. Mishra
Formation of nuclear inclusion protein of Urdbean Leaf Crinkle Virus (ULCV) in Urdbean
Paper presented during National Symposium –cum- Workshop on Plant Morphogenesis held at Department of Biosciences, Sardar Patel University, December 29-30, 1997.

33. Sunitha mary Oommen, Palak H. Savlani, **T. V. Ramana Rao**, I. L. Kothari, G. B. Valand and A. Mishra
Formation of nuclear inclusion of potyvirus CABMV in Cowpea,
Paper presented during National Symposium –cum- Workshop on Plant Morphogenesis held at Department of Biosciences, Sardar Patel University, December 29-30, 1997.
32. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Morph-histogenic studies in the fruit of *Callistemon selaginus* (Smith.) (Myrtaceae)
Paper presented during National Symposium –cum- Workshop on Plant Morphogenesis held at Department of Biosciences, Sardar Patel University, December 29-30, 1997.
31. **Ramana Rao, T. V.** and I. L. Kothari
Potential of Linseed as herbal remedy
Paper presented during National Seminar-cum-Workshop on Perspectives of Research in Medicinal plants, held at Gujarat Agricultural University, Anand Campus, March 1-3, 1997.
30. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Anatomy: An aid in medicinal plant research
Paper presented during National Seminar-cum- Workshop on Perspectives of Research in Medicinal plants, held at Gujarat Agricultural University, Anand Campus, March 1-3, 1997.
29. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Histo- architecture of the developing and mature pericarp of *Eugenia jambos* L.(Myrtaceae) (Ab. No. BC-13)
Paper presented during 12th Gujarat Science Congress held at V. P. Science College, Vallabh Vidyanagar, February 15-16, 1997.
28. **Ramana Rao, T. V.**, Neelam Bhatnagar and Yash Dave
Developmental and structural studies in the fruit of *Lawsonia inermis* L. (Lythraceae) (Ab. No. 81, Page No. 51)
Paper presented during 84th Session Indian Science Congress held at Delhi, January 3-8, 1997.
27. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Scanning electron microscopic study on the surface sculpture of selected Lythraceae members
Paper presented at XX National Conference of the EMSI held at Calcutta, December 5-7, 1996.
26. Yash Dave, **T. V. Ramana Rao** and Neelam Bhatnagar
Structural design of the developing fruit wall of *Terminalia arjuna* (Roxb.) (Combretaceae)
Paper presented during Indian Botanical Conference held at Haridwar, November 28-29, 1996.
25. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
In vivo morphogenesis in the developing pericarp of *Terminalia catappa* L. (Combretaceae) (Ab. No. IV-6, Page No. nil)
Paper presented during All India Symposium on Contemporary studies on Plant Structure and Morphogenesis: In vivo and In vitro Morphogenesis held at Department of Biosciences, Sardar Patel University, October 11-12, 1996.
24. Yash Dave, **T. V. Ramana Rao** and Neelam Bhatnagar
Structural and developmental studies of the extrafloral nectarines in *Lagerstroemia speciosa* (L.) (Lythraceae).
Paper contributed for 7th International Pollination Symposium held at Lethbridge, Alberta, Canada, June 23-28, 1996.

23. Yash dave, Neelam Bhatnagar and **T. V. Ramana Rao**
Histo-architectur of the developing fruit of *Combretum coccinium*.
Paper presented during 11th Gujarat Science Congress held at Ahemdabad, February 18-19, 1996.
22. Neelam Bhatnagar, Yash Dave, and **T. V. Ramana Rao**
Pericarpic studies in the developing fruit of *Terminalia bellirica* (Ab. No. S-34, Page No. 27)
Paper presented during National Seminar on Contemporary Studies on Plant Structure and Morphogenesis held at Department of Biosciences, Sardar Patel university, October 6-8, 1995.
21. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Structural studies of the outer epidermis of fruit of *Syzium cumini* (L.) (Myrtaceae)
Paper presented during Life Science Session of National Seminar on Recent Research in Science and Technology, held at Assam University, Silchar, Assam, November, 1995.
20. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Epicarpic studies in the developing fruit of *Eugenia jambos* L. (Myrtaceae)(Ab. No. 1-4, Page No. 2) Paper presented during 18th Indian Botanical Conference held at University of Jammu, Jammu, October 17-19, 1995.
19. Uma, Ch. and **T. V. Ramana Rao**
Response of *Sesamum indicum* L. to cement kiln dust pollution (Ab. No. 63, Page No. 6)
Paper presented during Annual Congress on Man and Environment held at Goa, March 8-10, 1995.
18. **Ramana Rao, T. V.** and Yash Dave
Morpho-histogenic studies in the pericarp of *Cardiospermum halicacabum* L. (Sapindaceae). (Ab. No. 81, Page No. 51)
Paper presented during 82nd Session of Indian Science Congress held at Calcutta, January 3-8, 1995.
17. Uma, Ch. and **T. V. Ramana Rao**
Studies on the response of *Coriandrum sativum* Linn. to the cement kiln dust pollution (Ab. No. 97, Page No. Nil)
Paper presented during National Symposium on Current Trends in Plant Sciences, held at Department of Botany, Osmania University, Hyderabad, March 11-12, 1995.
16. Neelam Bhatnagar, Yash Dave and **T. V. Ramana Rao**
Studies on sequential developmental changes of epidermis in the fruit of *Terminalia catappa* L. (Combretaceae) (Ab. No. 87, Page No. Nil)
Paper presented during National Symposium on Current Trends in Plant Sciences, held at Department of Botany, Osmania University, Hyderabad, March 11-12, 1995.
15. **Ramana Rao, T. V.** and Yash Dave
Morpho-histogenic studies in the pericarp of *Sapindus laurifolius* Vahl. (Sapindaceae). (Ab. No. 86, Page No. nil)
Paper presented during National Symposium on Current Trends in Plant Sciences held at Department of Botany, Osmania University, Hyderabad, March 11-12, 1995.
14. Uma, Ch. and **T. V. Ramana Rao**
Effect of particulate pollutant on *Hibiscus cannabinus* Linn. (Ab. No. II-3, Page No. nil)
Paper presented during National Seminar on implications of environmental statement held at Baroda, December 3, 1994.
13. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Structure, development and dehiscence in the schizocarpic fruit of *Abutilon indicum* G. Don. (Malvaceae)
Paper presented during 9th Gujarat Science Congress held at Surat, 10-11 April, 1994.

12. **Ramana Rao, T. V.,** Yash Dave and J. A. Inamdar
Morpho-histogenic studies in the pericarp of schizocarpic fruit of *Malvastrum coramandelianum* (L.) (Malvaceae)
Paper presented during National Symposium on Frontiers in Plant Science Research held at Osmania University, Hyderabad (Ab, No, 23 , Page Nos, 223 & 224), February 13 and 14, 1994.
11. Joseph, G. V. R., **T. V. Ramana Rao** and J. A. Inamdar
Histomorphological and pharmacognostic studies on the leaves of *Kignelia reticulata* poir (Euphorbiaceae) (Ab. No. 17, Page No. 221)
Paper presented during Indian Pharmaceutical Congress – in the session of Pharmacognosy, Phytochemistry and Pharmacy in indigenous system of medicine held at New Delhi, December 23-25, 1993.
10. Uma, Ch., **T. V. Ramana Rao** and J. A. Inamdar
A preliminary study on the effect of cement kiln dust pollution in *Brassica nigra* L. (Ab. No. II-6, Page No. nil)
Paper presented during National Seminar on Priorities and Challenges for Air Pollution Abatement – held at Baroda, March 5, 1993.
9. Joseph, G. V. R., **T. V. Ramana Rao** and J. A. Inamdar
Anatomical and pharmacognostic studies in the fruit of *Jatropha curcas* Linn. (Ab. No. 115, Page No. 194)
Paper presented during 80th Session of Indian Science Congress held at Goa, January 3-8, 1993.
8. **Ramana Rao, T. V.,** Yash Dave and J. A. Inamdar
Morpho-histogenic studies in the schizocarpic fruit of *Sida rhombifolia* L. (Ab. No. 191, Page No. 114) Paper presented during 80th Session of Indian Science Congress held at Goa, January 4-8, 1993.
7. **Ramana Rao, T. V.,** Yash Dave and J. A. Inamdar
Anatomy of fruit wall and horns of *Pavonia sepium* Bros (Malvaceae) (Ab. N. 187, Page No. 101) Paper presented during 79th Session of Indian Science Congress held at Baroda, January 3-8, 1992.
6. Dave Yash, **T. V. Ramana Rao** and J. A. Inamdar
Morpho-histogenesis of pericarp of *Urena lobata* (L.) (Malvaceae) (Ab. No. 34, Page No. 17)
Paper presented during National Seminar on Modern Trends in Botany held at Department of Botany, University of Poona, Pune, February 21-24, 1991.
5. **Ramana Rao, T. V.,** Yash Dave and J. A. Inamdar
Morpho-histogenesis of fruit sculpture and dehiscence in *Thespesia populnea* L. Soland (Malvaceae) (Ab. No. 479, Page No. 344)
Paper presented during 75th Session of Indian Science Congress held at Poona, January 3-8, 1988.
4. Dave Yash, **T. V. Ramana Rao** and J. A. Inamdar
Structural design of the developing and mature pericarp of *Hibiscus sabdariffa* L. (Ab. No. 271, Page No. 149)
Paper presented during 74th Session of Indian Science Congress held at Bangalore, January 3-8, 1987.
3. **Ramana Rao, T. V.,** Yash Dave and J. A. Inamdar
Morpho-histogenic studies of the fruit of *Hibiscus micranthus* L. (Malvaceae) (Ab. No. 173, Page No. 117)
Paper presented during 73rd Session Indian Science Congress held at Delhi, January 3-8, 1986.

2. **Ramana Rao, T. V.**, Yash Dave and J. A. Inamdar
Structural design of the developing pericarp of *Abelmoschus esculentus* (L) Moench (Ab. No. 98, page No. 54)
Paper presented during 72nd Session of Indian Science Congress held at Lucknow, January 3-8, 1985.
1. Inamdar, J. A., R. Balakrishna Bhatt and **T. V. Ramana Rao**
Internodal vessel elements of some Malvaceae
Paper presented during All India Symposium on Normal and Pathological development and structure of Economic Plants (Ab. No. Page No.) held at Department of Biosciences, Sardar Patel University November 2-5, 1991.

Extension Work:

- Since 2009 acting as **Managing Editor of “PRAJNA – Journal of Pure and Applied Sciences”** Published by Sardar Patel University.
- Member, Taskforce Group, Gujarat Knowledge consortium, Gandhinagar
- Reviewer for several Research Journals such as Fruits, World Journal of Agricultural Sciences.
- Member, Library Committee of Department of Biosciences, since 2000-2001. Member, Board of Studies in Biosciences, Sardar Patel University, 2008-2011.
- Involved in organization of Environmental awareness and Biodiversity Conservation related programs.
- Executive Member (Departmental representative) of Sardar Patel University Teachers Association (SPUTA) for the Years 1999 – 2000 and 2000 – 2001 and Joint Secretary for the year 2001 - 2002.
- Member, Executive Committee, Electron Microscope Society of India for the Years 1997 – 98 and 1998 – 99.
- Member, Executive Committee, Gujarat Biosciences Society for the years 1997 – 98 and 1998 – 99.
- Member, Advisory Committee of UGC – DSA Programme of Department of Biosciences, Sardar Patel University

Acted as a Resource person for

- UGC sponsored Refresher Courses in Botany, Life sciences and Environmental Sciences held by Gujarat University, Ahmadabad.
- ICAR sponsored Seed Technology Courses held by Gujarat Agricultural University, Anand.

Acted as a Visiting Faculty of

- M. S. University, Baroda.
- Nagarjuna University, Nagarjuna Nagar
- D. Patel Institute of Technology, New Vallabh Vidyanagar.

Lectures delivered on

- Photomicrography in Biology.
- Recent trends in post-harvest physiology of fruits and vegetables. Rise of Science in 17th & 18th centuries.
- Delivered a Radio Talk on The importance of gaining of knowledge on fruit science for reducing the postharvest losses of fruits.

Other information which is not covered above:

37. Conducted Andhra Pradesh Mahila Abhivruddhi Society (APMAS), Hyderabad sponsored Awareness workshop –cum- Training programs on Edible coatings for Fruits and Vegetables to sustain their freshness, to the Farmer Member Community for Chittur and Anantpur Districts of Andhra Pradesh on 18th and 19th Feb, 2016.
54. Delivered an invited talk and also Chaired one of the Technical Sessions a National Conference entitled, “Biological Tools for Sustainable Environment” held by Veer Narmad South Gujarat University, Surat on 20th Feb., 2016.
35. Delivered an invited talk and also Co-chaired one of the Technical Sessions of AP Science Congress held at Tirupati during January 27 – 29, 2016.
34. Delivered invited Lectures at SRR & CVR Government College, Vijayawada on 4th Nov. 2015 and J KC. College, Guntur on 18th Nov. 2015. Delivered a lecture at Academic Staff College, Vallabh Vidhyanagar on 11th September, 2015.
33. Delivered a lecture at A. D. Patel Institute of Technology, New Vallabh Vidhyanagar, Vitthal Udyognagar, Anand on 18th August, 2015 under the Program of Two Weeks Summer Training School on State of the Art Technologies in Food Engineering,
32. Delivered an Invited talk on ‘Scope and efficacy of Biopreservation of Fruits and Vegetables’ at Andhra Pradesh Agriculture University, LAM farm, Guntur, A. P. on 9th June, 2015.
31. Delivered a lecture on the topic “An overview of Microscopy” at Electron Microscopy Workshop, held by SICART on 20th March 2014.
30. Participated as an invitee in 10th Agresco Meeting of Crop Improvement subcommittee Anand Agricultural University, Anand held at P. G. Seminar hall, B. A. College of Agriculture, AAU, Anand, during 20th and 21st March, 2014.
29. A lecture on “Microscopy as an aid in Biological Sciences Research” was delivered during Refresher Course in Life Sciences held by Department of Life Sciences, Gujarat University, Ahmadabad on 19th March 2013.
28. A lecture was delivered on Recent Trends in Postharvest Technology of Fruits and vegetables during Refresher Course in Life Sciences held by Department of Life Sciences, Gujarat University, Ahmedabad on 19th March 2013.
27. An invited talk was delivered on “Efficiency of eco-friendly based edible coatings on the preservation and quality improvement of fruits and vegetables” during International Conference on Environmental Impact on Human Health and Therapeutic Challenges (ICEHT-2012) & 6th Annual Convention of Association of Biotechnology and Pharmacy (ABAP), Organized by Department of Virology, Sri Venkateswara University, Tirupati, A. P., India during December 20-22, 2012.
26. Delivered an invited talk on Edible coatings for the improvement of postharvest quality and shelf-life of fruits and vegetables during Andhra Pradesh Science Congress-2012 on Innovation in Science, Technology and Mathematics (ISTAM) held at Andhra Pradesh on 14th – 16th Nov., 2012.
25. Recent development in Post-harvest Technology of fruits and vegetables" in Zonal Seminar on Physiological and Molecular Intervention on Sustainable Crop Productivity under Changing Climatic Conditions held at Directorate of Medicinal and Aromatic Plants, Boriavi, Anand on 17th January 2012.
24. Chaired one of the Technical sessions of National Seminar on Nutraceuticals and Plants used in Human Health, held at Department of Botany of M. S. University of Baroda during December 10-11, 2011

23. Delivered Invited Lectures on (i) Recent developments in the Postharvest Technology of Fruits and vegetables, and (ii) Grafting Technique as an aid in improving the quality of watermelon in St. Theresa Autonomous College for Women, Eluru, Andhra Pradesh on November 2, 2011
22. Delivered an Invited Lecture on Eco-friendly edible coatings in improvement of quality and shelf life of fruits in National Seminar on Environment and Sustainable Development, Organized by Department of Environmental Sciences, Acharya Nagarjuna University, Nagarjunanagar on October 28 & 29, 2011.
21. Delivered an Invited Talk on "Role of Edible coatings in extension of shelf life and quality of fruits and vegetables" during Andhra Pradesh Akademi of Sciences Young Scientists Convention, Organized by Acharya Nagarjuna University, Andhra Pradesh on October 27 & 28, 2011.
20. Delivered an Invited Lecture on Value Addition for fruits and vegetables through the application of edible coatings in National Symposium on Evolving Paradigm to Improve Productivity from Dynamic Management and Value Addition for Plant Genetic Resources, Organized by Department of Botany, Gujarat University, Ahmadabad on 13th to 15th October, 2011.
19. Acted as a Resource person for an UGC sponsored Refresher Course in Environmental Sciences held by Academic Staff College of Gujarat University Ahmedabad and delivered two lectures on June 25, 2011.
18. Acted as a Judge for the Technical session of BOTANY section of Gujarat Science Congress held by Gujarat Science Academy and Gujarat University on March 21, 2010.
17. Acted as a Resource person for an UGC sponsored Refresher Course in Environmental Sciences held by Academic Staff College of Gujarat University Ahmedabad and delivered two lectures on June 16, 2010.
16. Acted as a Co-Chairman of Poster Session of a National Seminar on Air Pollution Management in changing Global Environmental Scenario held by Botany Department of M. S. University of Baroda, Vadodara on 7th February 2010.
15. Acted as a Resource person and Chairman of one of the Technical Sessions of 3rd Annual Convention and International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, organized jointly by Department of Biotechnology and Department of Nanobiotechnology at Acharya Nagarjuna University, Guntur, Andhra Pradesh during December 19 to 21 2009.
14. Delivered a lecture on the topic "Microscopy and its role in environmental pollution studies" during a National Seminar on "Role of Biotechnology in Alleviating Environmental Pollution" held by Montessori Mahila Kalasala, Vijayawada on 23rd October, 2009.
13. Acted as a Resource person at National Seminar on Emerging Areas in Plant Sciences at M. S. University of Baroda on 22nd February 2009.
12. Acted as Guest Faculty for Seed Technology Course of Botany Department of M. S. University, Baroda on 22nd Feb. 2003, 12th April 2004 and in March 2006.
11. Acted as a Visiting Faculty of ISTAR, Vallabh Vidyanagar to teach Plant Physiology subject to the students of their M. Sc. Environmental Sciences course, from 2001-02 to 2003-04.
10. Also acted as Resource person on for a Winter School held on Seed Technology held at Dept. of Plant Pathology, B. A. College of agriculture, Gujarat Agricultural University, Anand (20 - 09 - 2001).
9. Delivered an invited talk on Microscopy at N. V. Patel College of Pure and Applied Sciences, Vallabh Vidyanagar on 21 February 1999.
8. Acted as Guest Faculty - Biotechnology Centre of Nagarjuna University during October 21st to 30th, 1998 and November 14 to 21, 1999 to teach Cell Biology subject for their M. Sc. (Prev.) Biotechnology students.

7. Also acted as a Resource Person for a Refresher Course held at Department of Biosciences, Sardar Patel University during 2nd to 21st November 2000.
6. Acted as a Resource Person for UGC Sponsored Refresher Courses held at Department of Biosciences, Sardar Patel University during 7th to 28th January 1995 and at Department of Botany, Gujarat University during 14 March to 3 April 1997 and 8 to 28 August 2000 and 11 to 31 March 2004.
5. Acted as Resource Person for UGC Sponsored Refresher Courses held at Department of Biosciences, Sardar Patel University during 7th to 28th January 1995 and at Department of Botany, Gujarat University during 14 March to 3 April 1997 and 8 to 28 August 2000 and 11 to 31 March 2004.
4. Executive Member (Departmental representative) of Sardar Patel University Teachers Association (SPUTA) for the Years 1999 – 2000 and 2000 – 2001 and Joint Secretary for the year 2001 - 2002.
3. Member, Executive Committee, Electron Microscope Society of India for the Years 1997 – 98 and 1998 – 99.
2. Member, Executive Committee, Gujarat Biosciences Society for the years 1997 – 98 and 1998 –99.
1. Member, Advisory Committee of UGC – DSA Programme of Department of Biosciences, Sardar Patel University.