



UKA TARSADIA UNIVERSITY(UTU)

C.G. BHAKTA INSTITUTE OF BIOTECHNOLOGY(CGBIBT)

- A. NAME:** **RAMAR KRISHNAMURTHY**
- Department/Institute C .G. Bhakta Inst. of Biotechnology
Month of Appointment September, 2011
Status on Appointment Director
- B. PRESENT STATUS** Director, CGBIBT - UTU
Dean, Faculty of Science, UTU;
Visiting Professor to University of Ilorin, Nigeria since March, 2013;
Fellow of Chartered Institute of Environmental & Public Health Management of Nigeria
- C. (i) UNIVERSITY EDUCATION WITH YEAR**
- a. M.S. University of Baroda, Baroda, India 1983 – 1988
b. University of Madras, Madras, India 1981 – 1983
c. University of Madras, Madras, India 1978 – 1981
- (ii) Pre-University Education**
- a. Government Arts and Science College, 1977 – 1978
University of Madras, Cuddalore, India
- D. ACADEMIC QUALIFICATIONS WITH YEAR**
- Ph. D. (Botany) 1988
M.Sc. (Botany) 1983
B.Sc. (Zoology, Chemistry, Botany-Main) 1981
- E. SCHOLARSHIPS, PRIZE AND HONOURS**
- (i) Awarded the **Fellow** status by Chartered Institute of Environmental and Public Health Management of Nigeria(**CEPHM**), Lagos, 28th April, 2017
(ii) CSIR-RA & CSIR-Pool Officer, CSIR-New Delhi
Post-Doctoral Fellowship at South Gujarat Univ., India 1990 -1995
(iii) UGC-JRF Doctoral Fellowship (Ph.D.)& CSIR-SRF(after Ph.D.) at1983 - 1989
M.S. University of Baroda, India
- F. PROFESSIONAL EXPERIENCE**
- (i) Total: 28 years (15 years teaching & research, and 13 years Industrial Research & Development Experience)
(ii) Currently Visiting Professor to University of Ilorin, Kwara State, Nigeria

G. ACADEMIC BOARD AND UNIVERSITY MANAGEMENT EXPERIENCE

- (i) Member of Academic Council, Veer Narmad South Gujarat University, Surat, India 2007 – 2011
- (ii) Member of Senate, Veer Narmad South Gujarat University, Surat, India 2007 – 2011
- (iv) Member of Board of Management, Uka Tarsadia University, Bardoli, Surat, India 2011 – Till Date
- (v) Member of Academic Council, Research Council and Board of Studies, Uka Tarsadia University, Bardoli, Surat, India 2011 – Till Date
- (vi) Member of Governing Body, Uka Tarsadia University, Bardoli, Surat, India 2021– Till Date

H. RESEARCH INTEREST OR COMMISSIONED PROJECTS

Details of Research cum Teaching experience in various institutions and Transfer of technology

- (i) Junior Research Fellow (U.G.C., New Delhi): April 1983- Dec. 1986; At Botany Department, M. S. University, Baroda.-During Ph.D.
- (ii) Senior Research Fellow (Direct Fellowship, C.I.S.R., New Delhi): Jan 1987 – Dec. 1989; At Botany Department, M.S. University, Baroda.-After Ph.D.
- (iii) Lecturer: Jan 1989 - May 1990; At Botany Department, M. S. University, Baroda.
- (iv) Research Cum Teaching (Direct Selection, C.S.I.R Research Associate, New Delhi): June 1990 – May 1991 Involved in research and teaching at Dept of Bioscience(as Post – Doctoral Research & Teaching at M.Sc. level), Veer Narmad South Gujarat University, Surat.
- (v) Lecturer: June 1991 – May 1992 (One Academic Year); At Post Graduate Dept of Botany, Science College Shahada (M.S.), Under University of Poona, India, for Teaching M.Sc.
- (vi) Scientist (Direct Selection as Scientist Pool Officer, C.S.I.R, New Delhi): June 1992 – Feb 1995, Involved Research and Teaching at Dept. of Bioscience(at M.Sc. level). Veer Narmad South Gujarat University, Surat, India
- (vii) Director (Previous Position):Mar.1995 - Feb. 2007. For 13 years: At Zandu Foundation for Health Care (ZFHC), Gujarat/Bombay, Handled various R & D Departments and Office Administration (ZFHC was approved for M.Sc - by Research and Ph.D. by Bombay University, India).
- (viii) Director (Previous Position): March 2007 – August 2011. Bhagwan Mahavir College of M.Sc. Biotechnology, Surat, India; In addition to academic, Conducted Research on Medicinal & Aromatic plants, & Plant Tissue Culture for Ph.D. and M.Sc., students.
- (ix) Transfer of Research Technology to Industry for the best project award by Dept. of Biotechnology(DBT), Govt. of India, New Delhi. The 5yrs DBT project has been completed (as Principal Investigator) on “Development of Novel Germplasm of *Mucuna pruriens* through conventional breeding and tissue culture methods,” during

the years 1996 – 2001.69 breeding lines have been developed in the project and short-listed five deserving lines for improved quality (yield and L-Dopa).The DBT has appreciated this work and selected the best project award on 11th May, 2002, Technology Day at New Delhi.

- (x) No. of Govt. sponsored projects handled during the last 20 years as Principal Investigator & Co. Principal Investigator: **Completed 7 Govt.Projects.**
- (xi) No. of Foreign Company Supported Joint Venture Projects: **Completed 3 Projects.**

Completed Projects with Zandu Foundation as Director:

- (i) Development of Traditional Herbal Drugs as Adaptogens – Immuno Modulators- To work on *Tinospora cordifolia*, *Sida cordifolia*, *Centella asiatica*, *Asparagus racemosus* and *Terminalia chebula*. Joint Venture Project with RRL-CSIR Laboratory, Jammu & ZANDU. Sponsored by DST, Govt.of India, New Delhi, Project Year 1995 – 1998.
- (ii) Commercialization of *Stevia rebaudiana* (a natural non-caloric sugar free products 300 times sweeter than sugar) cultivation in different Indian climatic regions Viz. Vikasnagar in Uttaranchal, Dindugal in Tamil Nadu, Bangalore in Karnataka and Ambach-Vapi in Gujarat, Project finance supported by M/S Michimen Corporation, Osaka, Japan and M/S S. E. International, Mumbai. Project Year 1996-1999.
- (iii) Development of Novel Germplasm of *Mucuna pruriens* with improved yield and L-Dopa content through conventional breeding and Tissue Culture methods. Sponsored by Department of Biotechnology, Govt. of India, New Delhi. Project Year 1996 -2002.
- (iv) Commercial scaling-up of *Phyllanthus amarus* (Bhui-Amla) a Hepoto - tonic plant for higher herbage yield and active ingredient content under South Gujarat Conditions. Project finance supported by CMI, Munch, Germany. Project Year 1999-2000.
- (v) Selection of high yielding and chemical content genetic stock lines of Dashmool Drug Plants - Shalparni (*Desmodium gangeticum*) and Pristiparni (*Uraria picta*). Sponsored by Department of Biotechnology, Govt. of India, New Delhi. Project Year 2001-2004.
- (vi) Standardization and Mass-Scale Propagation of Imported Orchid varieties for Export Quality. A Joint Venture Project with Zandu & M/S Natural Synergies Ltd, Chennai and M/S Multico Orchids, Singapore. Project Year 1996-1999.
- (vii) Transfer of technology for promotion of commercial cultivation of medicinal plants in Tribal Regions of South Gujarat. Sponsored by Department of Biotechnology, Govt. of India, New Delh. Project Year 2004-2008.
- (viii) Seed Production, Standardization, Labeling, Storage and Distribution of Medicinal Plants at Ambach, South Gujarat. Sponsored by National Medicinal Plants Board, Dept of ISM & H, Govt of India, New Delhi. Project Start Year 2007.
- (ix) Other ZANDU-Self-Finance Projects Completed: Transfer of Technology for Commercial production of Pharmaceutical products through contract production with farmers and growers – Commercial production of medicinal plants like Kauncha, Kalmegh, Vacha, Ashwagandha, Senna and over 25 medicinal plants during the Year 1995-2007.

I. HONOUR, INVITATION, TECHNICAL ADVISOR, DISTINCTION AND MEMBER OF BODY:

- (i) Saline and Waste-Land Development through Medicinal Plants Cultivation and Organic Fertilizer application Approach, Project with ZAHAB General Trading & Contracting Corporation, Safat & Self Supported by ZAHAB(2007).
- (ii) Project Advisor: Developing Cultivation of Medicinal and Tissue Culture Plants of Industrial Importance, with M/S SMASB Limited & HAMDANI FARM LTD, Ilorin, Nigeria, (June, 2009).
- (iii) Visited Nigeria as an expert in March 2013 to commence commercial R&D project with Hamdani Farm Pvt Ltd, Ilorin on Tissue Culture Banana, Papaya, Watermelon, other fruit crops and Medicinal Plants.
- (iv) Visited University of Ilorin, for projects and MoU meeting in March 2013.
- (v) Visited International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria for MoU and Research meeting in Nov 2013.
- (vi) Currently supporting Local Farmers for cultivating Tissue Culture plants of Banana, Sugarcane, Medicinal Plants and other crops, through Maliba Centre for Excellence in Tissue Culture, C.G.Bhakta Institute of Biotechnology, Uka Tarsadia University, Bardoli, Surat, Gujarat, India. The Project finance is partially supported by Gujarat State Horticultural Mission, Govt. Gujarat, India. The Project is in Progress since the year 2013.
- (vii) Member of National Society of Ethnopharmacology(NSE), India, Society for Ethnopharmacology(SFE), Kolkatta and Association of Microbiologists of India(AMI).
- (viii) Participated as Zandu Company Representative in Research Project Committee to the Dept of Biotechnology, Govt.of India, New Delhi.
- (ix) Currently Project Committee Member, Gujarat Medicinal Plants Board, Govt. of Gujarat since Dec 2014.
- (x) Visited University of Ilorin (Unilorin), Nigeria, 2 May – 28 May 2015, for providing technological support to establish Plant Tissue Culture Laboratory. The Tissue Culture Lab was commissioned and inaugurated by Prof. A.G. Ambali, Vice Chancellor, Unilorin, on 21 May 2015.
- (xi) Visited University of Ilorin (Unilorin), Nigeria in September & November 2015; in May & November 2016 for providing technical guidance in Plant Tissue Culture Laboratory project, Shri N G Patel(Bhakta) Research Project and other joint research projects.
- (xii) Visited Lagos, Nigeria on 28th April 2017 to receive Fellow status award conferred by Chartered Institute of Environmental and Public Health Management of Nigeria(CEPHM) and also attended Shri N G Patel(Bhakta) International Research Fellowship Awardees – 2017 selection committee meeting and joint research projects as an expert & mentor at University of Ilorin, in the 1st & 2nd week of May 2017.
- (xiii) Delivered talk on “Scientific Application of Biotechnology to Organic Farming, Food Production and Environmental Management” in the Environmental International Conference at Lagos, Organized by Chartered Institute of Environmental and Public

- Health Management of Nigeria(CEPHM as Invited Guest Speaker on 27th October, 2017.
- (xiv) Attended Collaborative Research Meeting and Selection Committee for Shri N G Patel(Bhakta) International Research Fellowship Awardees - 2018 at University of Ilorin, Nigeria, 19th – 23rd March 2018.
- (xv) Attended Collaborative Research Meeting and Selection Committee for Shri N G Patel(Bhakta) International Research Fellowship Awardees - 2018 at University of Ilorin, Nigeria, 5th – 9th November 2018 and 21st – 29th May 2019.
- (xvi) Organized Jointly with TGG Foundation, Wayanad, India & CGBIBT-Uka Tarsadia University, Bardoli, Gujarat, India “National Conclave 2019 on Sustainable CSR Project in Rural India”, during 11- 13th October, 2019, at Mysore; also delivered talk in the same Conclave as Key Note Speaker.
- (xvii) Attended APBA’s African Plant Breeders Association Conference at Accra, Ghana, West Africa, 23-25th October 2019 for paper presentation on “Medicinal Plant Mucuna Breeding for Commercial Cultivation in India”.
- (xviii) Attended meeting of “Research Collaboration and N G Patel Fellowship Awardees Progress Evaluation” at University of Ilorin, Nigeria, 28 - 29th October 2019. This is as a part of MoU Collaboration between our two Universities.
- (xix) Attended MoU renewal signing meeting between Uka Tarsadia University, Bardoli, India and International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria on 30th October 2019.
- (xx) Attended Collaboration Meeting and MoU Signing protocol between Uka Tarsadia University, Bardoli, India and Cocoa Research Institute of Nigeria, Ibadan, Nigeria on 1st November 2019.
- (xxi) Attended Collaboration Meeting and MoU Signing Protocol between Uka Tarsadia University, Bardoli, India and University of Johannesburg, Johannesburg, South Africa on 4th November 2019.

J. EXPERIENCE SINCE BASIC QUALIFICATIONS AND ADMINISTRATIVE EXPERIENCE

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|------|---|----------------|
| i. | Director, C. G. Bhakta Institute of Biotechnology,
Uka Tarsadia University, Bardoli, Surat, India | 2011- To Date |
| | Dean, Faculty of Science, Uka Tarsadia University, Bardoli
Surat, India | 2016 – To Date |
| ii. | Dean, Faculty of Science, Uka Tarsadia University, Bardoli,
Surat, India | 2011 - 2014 |
| iii. | Director, Bhagwan Mahavir College of Biotechnology, affiliated
to Veer Narmad South Gujarat University, Surat, India | 2007 - 2011 |
| iv. | Director, Zandu Foundation For Health Care, India | 1995 - 2007 |
| v. | Research Associate and Scientist Pool Officer at Veer Narmad,
South Gujarat University, Surat, India | 1990 - 1995 |
| vi. | Lecture at Botany Dept., M.S. University of Baroda,
Baroda, India | 1989 - 1990 |
| vii. | Senior Research Fellow(C.S.I.R. – Direct) at Botany, | |

Dept., M.S. University of Baroda, Baroda, India	1987- 1989
viii. Junior Research Fellow (UGC) at Botany Dept. M. S. University of Baroda, Baroda, India	1983- 1986

K. PATENT

Patent Filed: Patents filed jointly with Zandu, RRL scientists, Jammu (CSIR Laboratory– Govt. of India) on the following title.

Patent taken (European patent)

TITLE:3-0-[ALFA-L-RAMNOPYRANOSYL-(1-2)-ALFA-L- RAMNOPYRANOSYL-(1-4)-3 BETA- D- GLUCO PYRANOSYL] -25 (S) –SPIROSTAN -3 BETA – OL, PROCESS FOR ITS ISOLATION, AND ITS USE AS IMMUNOMODULATOR (2005)

Patent number: 02708616.4 -2123-IN0200057

L. SOME SELECTED IMPORTANT PARTICIPATION IN LECTURES, INVITED TALK, PRESENTATION AND OVERSEASE RESEARCH COLLABORATION

- (i) Delivered a lecture and chaired in a session of International Conference on Ethnopharmacology at Trissur, Kerela, India, 20-22 January, 2006.
- (ii) Participated and delivered special lectures at department of Agriculture, Government of Kuwait on Developing Agro-Biotechnological based Industrial Projects during 5th - 14th April 2007 at Kuwait
- (iii) In the work-shop on “Minor forest produce (MEP) and MEP based Industries” as a member of Project Guidance Committee and also delivered a lecture on “Feasibility studies on Medicinal Plants Cultivation in South Gujarat” in GITCO project Report (Sponsored by DSIR, Govt. of India, New Delhi). Review committee meeting held on July 6, 2007 at Gujarat Industrial and Technical Consultancy Organization Limited, Ahmedabad, Gujarat, India
- (iv) Delivered special lecture at Department of Agriculture, Ministry of Kwara State, Ilorin, Nigeria, on Developing Cultivation of Medicinal and other Plants of Industrial Importance in June, 2009 at Ilorin, Nigeria.
- (v) Organized an International Conference (as a Chairman) on Medicinal Plants at UkaTarsadia University, Bardoli, Surat, India, 24–26Sep 2014.
- (vi) Delivered a Special Invited Talk at Ladoke Akintola University of Technology, Ogbomosho, Oyo State, Nigeria on 25 May 2015.
- (vii) Supervised as Mentor jointly along with Prof. J. A. Morakinyo (Supervisor, Unilorin) to Mr. David A. Animausan, Asst Lecturer, Plant Biology, University of Ilorin (Unilorin) for his part of Ph.D. work on **Nigerian and Indian Napier Grass**, Nov 2013 – Mar 2015.
- (viii) Supervised as Mentor jointly along with Prof. O. T. Mustapha (Supervisor, Unilorin) to Mrs. Khadijah A. Abdulkareem, Asst Lecturer, Plant Biology, University of **Ilorin** (Unilorin), for her part of Ph.D. work, on some **Nigerian Accessions of *Dipcadi***, Nov 2014 – Apr 2015.

- (ix) Initiated (in May 2015) as Mentor along with Prof. A. T. Oladiji (Supervisor, Unilorin) to Ms. Abidakun, Oreoluwa Moyosore, Dept of Biochemistry, University of Ilorin (Unilorin), Nigeria for a Research Project on “**Anti – Anaemic Potentials of Nigerian and Indian Accessions of Jowar (*Sorghum bicolor*) for Iron deficiency**”.
- (x) Supervised as Mentor jointly along with Prof. L.O.Tiamiyu(Supervisor, Unilorin) to Dr.Akinwande Akinlolu Ademuyiwa, Faculty of Agriculture, University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on “**Random Amplified Polymorphic DNA(RAPD) analysis of the genetic variability in wild and hatchery raised populations of the African *Clariid catfishes* in Nigeria**”, at Uka Tarsadia University, Project period: August 2016- October 2016.
- (xi) Supervised as Mentor jointly along with Prof. O.S. Balogun(Supervisor, Unilorin) to Miss Fatima A.Ibrahim, Centre for Research Development and In-House Training(CREDIT), University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on “**Micropropagation of Sugarcane using Tissue Culture Technique**”, at Uka Tarsadia University, Project period: August 2016- October 2016.
- (xii) Chaired in a session of 3rd Convention: SFE-India, 2016, National Seminar on “Analytical Techniques for Drug Discovery & Development from Natural Products” at Kolkata, India, 24th September, 2016.
- (xiii) Chaired in a session in 7th world Ayurveda Congress & Agroya Expo 2016, “International Conclave on Ethnopharmacology, Ethno-medicine and Traditional Health Practices”, 3-4th December 2016, Science City, Kolkata, India
- (xiv) Organized 4thInternational Congress of Society for Ethnopharmacology, SFE-India, as a Chairman on “**Healthcare in 21st Century: Perspectives of Ethnopharmacology & Medicinal Plant Research**” at UkaTarsadia University, Bardoli, Surat, India, 23–25, 2017
- (xv) Invited Guest Speaker in the International Environmental Management Stakeholders’ Conference on “**Scientific Application of Biotechnology to Organic Farming, Food Production and Sustainable Environmental Management in the 21st Century**”, Organized by Chartered Institute of Environmental and Public Health Management of Nigeria, on 27th October, 2017 at Lagos, Nigeria.
- (xvi) Invited Keynote Speaker, title of Lecture “**Application of Plant Tissue Culture Technology with Special Reference to Cultivation of Horticultural and Medicinal Plants**” in the U6 International Conference based on the theme on “**Research, Innovation & Technology for African Development**”, 4-6th September 2018, Organized by the Cape Peninsula University of Technology(CPUT), Cape Town, South Africa.
- (xvii) Had been as Chairman and Guest of honor in several conferences.
- (xviii) Supervised as Mentor jointly along with Prof.G.Olaoye, Faculty of Agriculture(Supervisor, Unilorin) to Miss Abidakun,Oreoluwa Moyosore, Centre for Research Development and In-House Training(CREDIT), University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on “**In**

- Vitro Propagation of Plantain : A Step to Ensuring Food Security in Nigeria**", at Uka Tarsadia University, Project period: January,2017- April, 2017.
- (xix) Supervised as Mentor jointly along with Prof.O.T.Mustapha, Department of Plant Biology, Faculty Science(Supervisor, Unilorin) to Mr.S.B.Adeyemi, University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on **"Isolation and Characterization of Bioactive Compounds from Selected Nigerian Medicinal Plants for Diabetes Treatment"**, at Uka Tarsadia University, Project period: January,2017- April, 2017.
- (xx) Supervised as Mentor jointly along with Dr. B.V. Owoyele, Department of Physiology, Faculty of Basic Medical Sciences (Supervisor, Unilorin) to Mrs.Ayinla Maryam Tayo, University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on **"Antidiabetic effects of *Ocimum gratissimum* and *Senna fistula*: Inhibitor of gluconeogenic enzymes and Beta cell death in streptozotocin induced diabetic rats"**, at Uka Tarsadia University, Project period: January,2017- April, 2017.
- (xxi) Supervised as Mentor to Prof. Moshood Adewale Belew, Dept of Animal Production, Faculty of Agriculture, University of Ilorin(Unilorin),The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on **"Efficacy of Increasing Milk Production Through Innovative Knowledge of Animal Nutrition"**, at Uka Tarsadia University, Project period: December,2017- February, 2018.
- (xxii) Presently Guiding Ph.D. work of Mr. Adeyemi Sherif Babatunde, Lecturer, Department of Plant Biology, Faculty Life Science, University of Ilorin(Unilorin), Nigeria, Thesis title **" Isolation, Characterization and Toxicological Evaluation of Anti-diabetic Priciples from *Daniellia oliveri*"**, 3 Years Tenure Research Fellowship Awarded by Unilorin to carry-out his full-time Ph.D. project work and Registered at Uka Tarsadia University, India, Project Period: June 2018 to Three Years June 2021.
- (xxiii) Supervised as Mentor to Dr. Raufu Ibrahim, Dept of Vet Microbiology, Faculty of Agriculture, University of Ilorin(Unilorin), Nigeria,The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on **"Milk Quality Assessment in Local Milk In India – A Microbial Perspectives"**, at Uka Tarsadia University, Project period: January, 2019- April, 2019.
- (xxiv) Supervised as Mentor to **Dr. Samson A. Oyeyinka**, Department of Home Economics and Food Science, Faculty of Agriculture, University of Ilorin, Nigeria, The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on **"Production and quality of shelf-stable Bambara Groundnut(*Vigna subterranean*) Milk"**, at Uka Tarsadia University, Project Period: April, 2019 – July, 2019.
- (xxv) Supervised as Mentor to **Dr. Ahmed O. Akeem**, Department of Veterinary Microbiology, Faculty of Veterinary Medicine, University of Ilorin, Nigeria, The

Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on “Comparative Evaluation of *Complylobacter* Contamination of Milk: A case study of India and Nigeria”. Project Period: May, 2019 – August, 2019.

- (xxvi) Supervised as Mentor to **Dr.Garuba, Taofeeq**, Department of Plant Biology, Faculty of Life Sciences, University of Ilorin, Ilorin, Nigeria, The Awardee of three months research fellowship through C.G.Patel(Bhakta) Grant for Research in Biotechnology by Unilorin, to work on “Spawn(Seed)Production and Cultivation of *Pleurotus ostreatus*(Jacq.Ex Fr.) P. Kummer,(Peurotaceae)”, at Uka Tarsadia University, Project Period: April, 2019- July 2019.

M. LIST OF PUBLICATIONS (1987– Till date)
(Selected Publications)

1. **R. Krishnamurthy**, Ramesh Babu, M.Anbazhagan, G. Banerjee and K.A. Bhagwat (1986). Physiological studies on the levels of some avene trees, exposed to chronic low levels of air pollutants. The **Indian Forester**, **112**. 503-511.
2. **R. Krishnamurthy**, M.Anbazhagan, and K.A. Bhagwat (1987). Effect of NaCl on; the inorganic ions, growth and yield of rice, **oryza**, **24**. 65-69.
3. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1987). Relationship of salt tolerance with leaf ascorbic acid content and titrable acid number in rice varieties. **Indian J. Exptl. Biology**, **25**,273-275.
4. **R. Krishnamurthy**, M. Anbazhagan and K.A Bhagwat (1987). Salt responses of enzymes from rice cultivars differing in salt tolerance. **Current Science**, **56**,489-490.
5. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1987). Chlorophyll breakdown and sodium chloride toxicity of rice. **Indian J. Agricultural Science**, **57**,567-570.
6. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1987). Accumulation of free amino acids and distribution of NaCl and K in rice (*Oryza sativa* L.), varieties exposed to NaCl stress. **Indian J. Plant Physiology**, **30**, 183-188.
7. Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1987). Yield of rice cultivars to chronic air pollution stress as, influenced by soil nitrogen. **International Rice Research News Letter** (Philippines) **12**, 16.
8. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1987).Tiller growth as an index of salt resistance. **International Rice Research News Letter** (Philippines), **12**, 14-15.
9. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1988). Evaluation of quaternary ammonium compounds as an index of salt tolerance using rice cultivars. **Indian J. Exptl.Biol.**, **26**, 137-139.
10. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1988). Glycinebetaine accumulation and varietal adaptability to salinity as a potential metabolic measure of salt tolerance in rice. **Current Science**, **57**,259-261.
11. M. Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1987). Foliar application of polyamines, kinetin and ascorbic acid on grain filling of rice. **International Rice Research News Letter** (Philippines), **12**.10.
12. **R. Krishnamurthy**, M.Anbazhagan, and K.A. Bhagwat (1988). Effect of salinity on the concentration of nitrogenous compounds in rice cultivars. **Oryza**, **25**, 84-86.

13. M. Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1988). Proline an enigmatic indicators of air pollution tolerance in rice cultivars. **Journal of Plant Physiology** (Stuttgart), **133**, 122-123.
14. **R. Krishnamurthy**, M.Anbazhagan, and K.A. Bhagwat (1988). Effect of NaCl on protein metabolism of seedlings of rice varieties. **The Indian Botanical Society**, **67**, 243-245.
15. **R. Krishnamurthy**, M. Anbazhagan, and K.A. Bhagwat (1989). Testing salt tolerance variability in the nutritional quality of seeds produced by rice cultivars subjected to salinity. **Seed Science & Technology** (England), **17**, 269-275.
16. M.Anbazhagan, **R. Krishnamurthy**, Upasna K. Nehra and K. A. Bhgwat (1989).Evaluation of SO₂ resistance in the Seedlings of rice cultivars. **Acta Botanica Indica**, **17**, 182-186.
17. M.Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1989). The performance of three cultivars of rice cultivated near to, and distant from, a fertilizer plant. **Journal of Environmental Pollution** (Britain), **58**,125-138.
18. **R. Krishnamurthy** and K.A. Bhagwat (1989). Polyamines as modulators of salt tolerance in rice cultivars. **Plant Physiology** (U.S.A.), **91**,500-504.
19. **R. Krishnamurthy** and K.A. Bhagwat (1989). Changes in protein and total nitrogen under salt stress in rice seedlings. **Indian J. Exptl. Biol.**, **27**, 1064-1066.
20. **R. Krishnamurthy** and K.A. Bhagwat (1990). Linear accumulation of choline and glycinebetine in salt stressed wheat seedlings. **Current Science**, **59**,111-112.
21. **R. Krishnamurthy** and K.A. Bhagwat (1990). A rapid and simplified method for determination of chloride in plant material. **Indian J. Exptl. Biol**, **28**, 198-200.
22. M.Anbazhagan, **R. Krishnamurthy** and K.A. Bhgwat. Predisposition of rice plants to the effects of air pollution exposure by modifying nitrogen nutrition, L.J. Brassler and W.C. Mulder (Eds), **Man and His Ecosystem**. Proceedings of the 8thWorld Clean Air Congress 1989, The Hague, the Netherlands, 4-15 September 1989. Volume 2. Elsevier Science Publishers B.V. Amsterdam. Pp, 79-86.
23. M.Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1990). Changes in the levels of carbohydrates in rice cultivars due to air pollution. **Indian J. Exptl. Biol**, **28**,395-396.
24. M.Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1990). Changes in the phenolic contents of rice cultivars towards air pollution exposure. **Proc. Indian Acad. Sci. (Plant.Sci.)**, **100**,107-112
25. M.Anbazhagan, **R. Krishnamurthy** and K.A. Bhagwat (1990).Effect of air pollution on rice plants under the application of polyamines. **Indian J. Exptl. Biol**, **29**, 89-90.
26. M.Anbazhagan, **R. Krishnamurthy**, Ila M. Joshi and K.A. Bhagwat (1990). Appraisal of *Calotropis procera* L. as a Bio-monitor for auto-exhaust pollution. **Indian J. Environmental Health**, **32**,389-392
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O. PhD and M.Sc. Students Guided

- PhD Students guided: 10
- M.Sc. Project/Dissertation Students guided: 250

P. COMMUNITY SERVICE

Involved with Farmers of Gujarat, Maharashtra, Karnataka and Tamil Nadu States, India for commissioning Agro-Technology of Medicinal Plants Cultivation and also helping Farmers in Tissue Culture Plants of Banana, Sugarcane and some fruit crops since 1995. Since then, several Farmers training, lectures and workshops for medicinal and tissue culture plants have been organized and conducted.