

Name : CHANNARAYAPPA



Address : **Office:**
Department of Biotechnology,
M.S. Ramaiah Institute of Technology
Vidya Soudha, M.S. Ramaiah Nagar,
M.S.R.I.T. Post, Bangalore – 560054
Ph: 23603123 Ext: 331
Fax: 23603124

Residence
31, 3rd Cross, Shabarinagar,
Byatarayanapura,
Bangalore-560 092
eMail: crayappa@rediffmail.com
channarayappa@gmail.com
Ph: 23622375, Cell# 9449425111

EDUCATION

Degree	Year	University/Institution	Subject
PDF (USA)	1991-95	Division of Laboratory Medicine, UT-M.D. Anderson Cancer Center, Houston, Texas, USA	Molecular diagnostics & Leukemia cell culture
Ph.D.(USA)	1986-90	West Virginia University, Morgantown, West Virginia, USA.	Genetics & Developmental Biology
Ph.D.(UAS-B)	1983-86	University of Agricultural Sciences, G.K.V.K., Bangalore, Karnataka, India	Genetics & Plant breeding
M.Sc. (Ag.)	1981-83	University of Agricultural Sciences, G.K.V.K., Bangalore, Karnataka, India	Genetics & Plant breeding
B.Sc. (Ag.)	1977-81	University of Agricultural Sciences, G.K.V.K., Bangalore, Karnataka, India	Agriculture

Additional qualifications

P.G.D.B.A.	1998-99	Postgraduate Diploma in Business and Administration, The Institute of Management and, Industrial Engineering (IMIE), Coimbatore, Tamil Nadu, India.
------------	---------	---

BRIEF CHRONOLOGY OF EMPLOYMENT

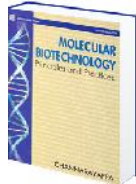
Designation	Institute and the Place of Work	Year
Professor and Head, Dept. of Biotechnology	M.S. Ramaiah Institute of Technology Vidya Soudha, M.S. Ramaiah Nagar, M.S.R.I.T. Post, Bangalore - 560054	Oct 2007- present
Principal & Professor and Head, Dept. of Genetics	Vydehi Institute of Biotech Sciences, EPIP area, White Field Bangalore-66	July 2003-Oct 2007
Assistant Professor	Department of Biotechnology, University of Agricultural Sciences, G.K.V.K., Bangalore-56, India	June 1996-Jul 2003
Visiting Research Scientist	Microbiology Section, National Institute for Occupational Safety and Health, Morgantown, WV, USA	Aug 1995-June 96
Postdoctoral Associate Research and teaching	Molecular Diagnostic Laboratories, Division of Laboratory Medicine, UT MD Anderson Cancer Center, Houston, TX, USA.	Aug 1993-Aug 95
Postdoctoral Fellow (Research and teaching)	National Institute for Occupational safety and Health (NIOSH), Morgantown, West	Mar 1990-Aug 91

Teaching Assistant & Supervisor Teaching labs

Virginia, USA.
West Virginia University,
Morgantown, West Virginia, USA

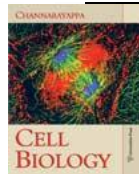
Aug 1986-Mar 91

LIST OF BOOKS PUBLISHED



Channarayappa (2006) **MOLECULAR BIOTECHNOLOGY: Principles and Practices**. Published by Universities Press (India) Pvt. Ltd, Hyderabad, India. Worldwide publishing: CRC Press/ Taylor and Francis Group.

Reviewed by: P. KHURANA and J. P. KHURANA*, *Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi 110 021, India.* *e-mail: khuranaj@genomeindia.org. **CURRENT SCIENCE**, VOL. 94, NO. 3, 10 FEBRUARY 2008, p392.



Channarayappa (2010) **CELL BIOLOGY**, Published by Universities Press (India) Pvt. Ltd, Hyderabad, India. and Distributed by Orient Blackswan.

Reviewed by: Hemalatha Reddy, Department of Biochemistry, Sri Venkateswara College, University of Delhi, Dhaura Kuan, New Delhi 110 021, India. E-mail: redhy.hl@bio-svc.ac.in **CURRENT SCIENCE**, Vol., 100, No. 5, 10 MARCH 2011, p771

Channarayappa (2010) **MOLECULAR BIOLOGY: Information Flow in Biological Systems**, Submitted for the publication to University Press, Hyderabad India. (**Under processing**)

AWARDS AND HONORS

- 1993 “**The Jawaharlal Nehru National Award for Outstanding Post-graduate Agricultural Research for 1993**”
For the significant research contribution in Genetic and Plant Breeding, at the University of Agricultural Sciences, Bangalore (1983-93). Award given by the Indian Council of Agricultural Research, New Delhi. INDIA.
- 1989 “**Environmental Mutagen Society Travel Award**”
Awarded by the *Environmental Mutagen Society*, USA, for the “mutation research work” carried out at West Virginia University, Morgantown, USA.
- 1984 Selected as “**Scientist (S-1)**” by Agricultural Research Service (A.R.S) Examination, Agricultural Scientists Recruitment Board, I.C.A.R., New Delhi, INDIA
- 1983–86 “**Senior Research Fellow**”
Awarded by the Indian Council of Agricultural Research, New Delhi, INDIA
- 1981–83 “**Junior Research Fellow**”
Awarded by the Indian Council of Agricultural Research, New Delhi, INDIA
- 1999 Honorary appointment to “**The Research Board of Advisors 1999**”, by the Board of Directors, Governing Board of Editors, and Publications Board of THE AMERICAN BIOGRAPHICAL INSTITUTE. North Carolina, USA.

PG Students Guided						
No.	Degree	Student name	Thesis title	Institution/ University	Year	Status
1	Ph.D. Biotech	Mrs. Thilagavathi V	Isolation screening and detection of methiillin resistant <i>Staphylocounsua ureus</i>	Dravidian University, Kuppam – 517 425: AP	2009	In progress
2	Ph.D. (Res) Biotech	Mr. Lokesh KN	Effect of iron overload induced oxidative stress on vital organs and assessment of efficacy of bioflavonoid in overcoming oxidative stress.	M.S. Ramaiah Institute of Technology, Bangalore. Visvesvaraya Technological University	2011	In progress
1	M.Sc. (Engg.) Biotech	Mr. Rajesh Kumar K	Study of selected under- exploited tree borne oils for biodiesel production and their quality assessment	M.S. Ramaiah Institute of Technology, Bangalore. Visvesvaraya Technological University	2008-	In progress

ADMINISTRATIVE ACCOMPLISHMENTS

<p>Professor and Head Dept. of Biotechnology October 2007-Present</p>	<ul style="list-style-type: none"> ➤ Member academic Council, M.S. Ramaiah Institute of Technology (MSRIT), Autonomous Institute, affiliated to VTU). ➤ Chairman, Board of studies (BoS), Biotechnology, MSRIT ➤ Chairman, Board of Examinations (BoE), Biotechnology, MSRIT ➤ Member, Board of Studies (BoE) Siddaganga Institute of Technology (SIT), Tumkur, Karnataka state. 572 103. ➤ Member, Board of Studies (BoE) Visvesvaraya Technological University (VTU), Belgaum, Karnataka State. 2008-2009 ➤ Examination Coordinator for B.E. Biotechnology (Bangalore region), VTU, Belgaum. 2008-2009 ➤ Organized National symposiums and Work Shops ➤ Participated in curriculum development for BE Biotechnology students, at MSRIT, Bangalore. ➤ Examination Paper setter and paper valuator for RV college of Engineering (RVCE), Bangalore-59. ➤ Examination Paper setter and paper valuator for Visvesvaraya Technology University (VTU) and for other Engineering colleges.
<p>Principal, Professor and Head, Dept. of Genetics, Vydehi Institute of Biotech Sciences, Whitefield, Bangalore-66 July 2003 to October 2007</p>	<ul style="list-style-type: none"> ➤ Shouldered the responsibilities of development of new Biotechnology College from scratch, which constituted with Undergraduate (B.Sc.) and Postgraduate (M.Sc. Biotechnology) degree programs. ➤ Day-to-day administration of entire Institution. ➤ Teaching and conducted Staff Meetings, seminars and guest lectures. ➤ Convening of governing body meetings, constituting members from Bangalore University and College Management.

(4 years 3 months)	<ul style="list-style-type: none"> ➤ Recruitment of staff as-and-when needed for both UG and PG ➤ Chief Superintendent Examinations (Theory): Conducting the Bangalore University Theory and practical examinations for both UG and PG students in Biotechnology, VIBS center. ➤ Conducted curricular and co-curricular activities of students & staff.
--------------------	--

TEACHING EXPERIENCE AND THE COURSES TAUGHT

2007-2009	Course taught in the Department of Biotechnology , M.S. Ramaiah Institute of Technology (M.S.R.I.T.), M.S. Ramaiah Nagar, M.S.R.I.T. Post, Bangalore - 54	
	Under-graduate Courses:	
	06BT-36 Cell Biology and Genetics (04)	One year
	06BT-43 Structural Biology (04)	One year
	06BT-55 Genetic Engineering and Applications (04)	One year
	06BT-64 Genomics and proteomics (04)	One year
	BT 45 Molecular Biology (3:1:1)	Four years
	BT-55 Genetic Engineering (3:1:1)	Three years
2003-2007	Course taught in the Department of Genetics , Vydehi Institute of Biotech Sciences, # 82, E.P.I.P., Area, Whitefield, Bangalore-66	
	Postgraduate Course:	
	BTP 101 Cell Biology & Genetics (04)	Three years
	BTP 101 Cell Biology (04)	Two years
	BTP 201 Molecular Biology (04)	Four years
	BTP 303 Genetic Engineering (04)	Four years
	BTP 404 Bioethics and Bio-safety (04)	Three years
1996-2003	Courses taught in the Department of Biotechnology , University of Agricultural Sciences, G.K.V.K., Bangalore-65.	
	Postgraduate Courses:	
	BT 601 Fundamentals of Molecular Biology (2+0)	Five years
	BT 609 Biotechnology of Plant-microbe interaction (2+0)	Four years
	BT 551 Post Graduate Seminar (0+1)	Four years
	Under Graduate Courses:	
	BT 101 Introductory Biotechnology (1+0)	One year
1986-90	Courses taught in the Biology Department , West Virginia University, Morgantown, West Virginia, USA.	
	Under Graduate Courses:	
	General Biology-III (0+1)	Five years
	General Biology-IV (0+1)	Four years

THESIS TITLES AND SPECIALIZATION

Degree	Year	Thesis Titles	Specialization
Ph.D. (Direct)	1992	Resistance mechanism of <i>Lycopersicon</i> species to the vector <i>Bemisia tabaci</i> and ultrastructural changes in leaf curl virus infected tomato plants.	Genetics and Plant Breeding, UAS, G.K.V.K., Bangalore
Ph.D. (Direct)	1990	Cytogenetic analysis of clastogens and aneuploidogens by immunofluorescent and micronucleus methods.	Genetics and Developmental Biology, WVU, Morgantown, USA.
M.Sc.(Ag.) (Direct)	1983	Response to selection, correlation and path analyses in niger (<i>Guizotia abyssinica</i> Cass).	Genetics and Plant Breeding UAS, G.K.V.K., Bangalore

PEER-REVIEWED SCIENTIFIC PUBLICATIONS

1. **Channarayappa** (2010) Elucidation of molecular mechanisms of DNA damage and their cytological detection. *Journal of Pharmaceutical and Biomedical Sciences [JPBMS]*, 2(2):1-6
2. Sathyaprakash R.J., Harish M.S., Rajesh MS, **Channarayappa**, Raju Dighe and Shivanada TN (2006) Effect of *Costus speciosus* extracts on liver and Kidney of streptozotocin induced diabetic rats. *BIOMED* 1(2):209-214.
3. Gao H.-G, J-K. Chen, J. Stewart, B. Song, **C. Rayappa**, W.-Z. Whong and T. Ong (1997) Distribution of p53 and K-ras mutations in human lung cancer tissues. *Carcinogenesis*, 18(3):473-478.
4. Narayanaswamy S. and **Channarayappa** (1996) Effect of pre-sowing treatment on seed germination and yield in groundnut (*Arachis hypogaea* L.). *Seed Research*, 24(2):166-168.
5. **Channa Rayappa** and E.A. McCulloch (1993) A cell culture model for the treatment of acute myeloblastic leukemia with fludarabine and cytosine arabinoside. *Leukemia*, 7(7):992-999.
6. Xiao-Chun Shi, Sui-Guang Xing, He-Kan Bi, Ver Hochberg, **Channa Rayappa**, Gopala Krishna and Tong-Man Ong (1993) The cytogenetic effects of benzene on rat bone marrow and spleen cells. *Journal of Occupational Medicine and Toxicology*, 2(1):53-63.
7. **Channarayappa**, G. Shivashankar, V. Muniyappa and R. H. Frist (1992) Resistance of *Lycopersicon* species to *Bemisia tabaci*, a tomato leaf curl virus vector. *Canadian Journal of Botany*, 70:2184-2192.
8. **Channarayappa**, Muniyappa V., Schwegler-Berry D. and Shivashankar G. (1992) Ultrastructural changes in tomato infected with tomato leaf curl virus, a whitefly-transmitted geminivirus. *Canadian Journal of Botany*, 70:1747-1753.
9. **Channarayappa**, Nath J. and Ong T. (1992) Immunofluorescent staining of kinetochores in micronucleus for detection of aneuploidy inducing agents. *Journal of Tissue Culture Methods*. 14:125-132, USA.
10. **Channarayappa**, Ong T. and Nath J. (1992) Cytogenetic effects of vincristine sulfate and ethylene dibromide in human peripheral lymphocytes: Micronucleus analysis. *Environmental and Molecular Mutagenesis*, 20:117-126.
11. **Channarayappa**, Nath J. and Ong T. (1992) Clastogenic and aneuploidogenic effects of cigarette smoke condensate, mitomycin C and vincristine sulfate. *Mutagenesis*, 7(6):457-460.
12. Muniyappa V., Jalikop S.H., Saikia A.K., **Channarayappa**, Shivashankar G, Ishwara Bhat A and Ramappa HK (1991) Reaction of *Lycopersicon* cultivars and wild accessions to tomato leaf curl virus. *Euphytica*, 56:37-47.
13. **Channarayappa**, Nath J. and Ong T. (1990) Micronuclei assay in cytokinesis-blocked binucleated and conventional mononucleated methods in human peripheral lymphocytes. *Teratogenesis, Carcinogenesis and Mutagenesis*. 10:273-279.
14. Virupakshappa K., Shivashankar G. and **Channarayappa** (1986) Response to selection in niger (*Guizotia abyssinica* Cass) *SABRAO JOURNAL*, 18(2):83-88.

REVIEW PAPERS

1. Channarayappa (2011) GM Food: A molecular miracle, *Modern Food Processing*, 6(6):42-44.
2. Channarayappa (2010) Enzymes, A biotech wonder, *Modern Food Processing*, 5(6):42-45.
3. Channarayappa (2009) R&D in food processing, Going in right direction? (Roundtable), *Modern Food Processing*, 4(5):2-28.
4. Channarayappa (2009) Biotech in food “Genes at work” “Cover Story”, *Modern Food Processing*, 4(6):39-42.

5. Channarayappa (2008) Biotechnology applications in food processing, Biospectrum, Asia Edition. September 1-2.

GENERAL/POPULAR ARTICLES

1. Channarayappa (2000) *Aloe vera* an all purpose medicinal herb. *Krishi Tantrajna*, 12(5):7.
2. Channarayappa (2000) Synthetic seeds. **AGROINDIA**. September 2000, 10-14.
3. Channarayappa (1998) Management of plant viral diseases. **AGROINDIA**. December 1998, pp10–13.
4. Channarayappa (2009) H1N1: A concise review, ‘SRIGEN’ The society of Biotechnologists, MS Ramaiah Institute of Technology. **Progenitor 09**.
5. Channarayappa (2011) Biotechnology is a Mighty, Multicolor and multifaceted field, ‘SRIGEN’ The society of Biotechnologists, MS Ramaiah Institute of Technology. **Progenitor 10**.

PUBLISHED ABSTRACT

1. Rajesh Kumar K, Girish AC, **Channarayappa**, Prasanna KT, B. Gowda (2011) Biodiesel production from *Aphanamixis polystachya* (Wall.) R. Parker-a promising oil yielding tree. XXXIII Conference on Indian botanical society and International symposium on the new horizons of botany. Organized by Department of Botany, Kolhapur-416 004. November 10-12, 2010.
2. **Channarayappa** (2009) Cytological analysis of mammalian cells exposed to various genotoxicants, State level conference on “Recent advances in environmental science and engineering” Organized by Dept. of Biotechnology & Engineering, Shridevi Institute of Engineering and Technology, Thumkur-572 106, October 16 & 17, 2009.
3. **Channarayappa** (2008) Elucidation of molecular mechanisms of DNA damage and their cytological detection. “National Conference on Genomics, Proteomics, and Systems Biology,” Jointly organized by Dept. of Biotechnology, Sir M. Visvesvaraya Institute of Technology and Dept. of Biotechnology, Dayananda Sagar College of Engineering, Bangalore. at J.N. Tata Auditorium, IISc Campus, Bangalore-560 012. October 1-3, 2008.
4. **Channarayappa** (2003) Molecular approaches in crop improvement, A symposium on recent trends in molecular biology and genetic engineering. Organized by **Bioscience Association, CMR Institute of Management and Sciences (CMRIMS)**, Bangalore, on February 22, 2003.
5. Swamy M, Swamy Gowda SN, **Channarayappa** and Niranjana Murthy (2001) Sugarcane production in Peninsular India: Problems and prospects. American Association for Sugarcane Growers, Florida, USA, p32.
6. Shivananda TN, **Channarayappa**, Gowda TKS. Siddaramappa R, Vishwanath SR and Vishwanath DP (1997) A protocol for isolating *Bradyrhizobium japonicum* bacteroids from the root nodules of soybean (*Glycine max* (L.) Merr.). **TCDC International Workshop on Application of Biotechnology in Biofertilizers and Biopesticides**. Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi. Oct 15-18, 1997.
7. **Channarayappa**, L.C. Pagliaro, E.A. McCulloch, and E.J. Freireich. (1994) Hematopoietic growth factor dependence of AML blasts. **Blood: J. Amer. Soci. Hemat.** 84(10): 623a.
8. **Channarayappa**, G. Shivashankar, V. Muniyappa, D. Schwegler-Berry and E.C. Keller, JR. (1991) Electronic microscopic studies of tomato leaf infected with tomato leaf curl virus (TLCV). *Proceedings of the West Virginia Academy of Sciences* 63(1):10.
9. **Channarayappa**, Nath J. and Ong T. (1991) Study of clastogenic and aneuploidogenic effects of cigarette smoke condensate, mitomycin C. and vincristine sulfate. **Environmental and Molecular Mutagenesis**, 17(19):15.

10. **Channarayappa** (1990) Cytogenetic analysis of clastogens and aneuploidogens by immunofluorescent and micronucleus methods. **W Microfilm 3365**.
11. **Channarayappa**, G. Shivashankar, V. Muniyappa and R. H. Frist (1990) Resistance to *Lycopersicon* species to the tomato leaf curl virus vector *Bemisia tabaci*. **Phytopathology**, USA, 80(7):670.
12. **Channarayappa**, J Nath and T Ong (1990) Cytogenetic effects of vincristine sulfate and ethylene dibromide in human peripheral lymphocytes. *Environmental and Molecular Mutagenesis*, 15(17):12.
13. **Channarayappa** (1986) Resistance mechanism of *Lycopersicon* species to the vector *Bemisia tabaci* and ultrastructural changes in leaf curl virus infected tomato plants. **Thesis Abstract**.
14. **Channarayappa**, J Nath and T Ong (1992) Comparative studies on the micronucleus assay in cytokinesis-blocked binucleated and conventional mononucleated methods in human peripheral blood lymphocytes. *Environmental and Molecular Mutagenesis*, 14(15):35.
15. Saikia AK, Muniyappa V, **Channarayappa**, Shivashankar G and Ramaswamy TK (1986) Reaction of breeding lines, Cultivars and (*Lycopersicon*) species to tomato leaf curl virus. National Symposium on New Horizons in Resistance Breeding for Vegetable Crops. p10. JNKVV, Jabalpur, MP, India, February 14-16.
16. **Channarayappa** (1985) Response to selection, correlation and path analyses in niger (*Guizotia abyssinica* Cass). Thesis Abstract XI (2):153.
17. Ranganath ARG, Shivashankar G, Virupakshappa K, **Channarayappa** and Sreekantaradhya R (1984) National Seminar on New Dimensions in Pulse Research and Development. JNKVV, Jabalpur, MP, India, May 21-23.

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

From	Organizations/Societies
1999	Life Member of “Institution of Agricultural Technologists”, 15 Millers Tank bed, Queens Road Bangalore-52.
1998	Life Member of “The Mysore Horticultural Society”, Golden Jubilee Hall, Lalbagh, Bangalore-04.
1996	Life Member of “Association for Promotion of Organic Farming”, University of Agricultural Sciences, G.K.V.K., Bangalore-65.
1996	Life Member of “Alumni Association”, University of Agricultural Sciences, Hebbal, Bangalore-24.

SEMINARS/CONFERENCES/SYMPOSIUMS ORGANIZED

- Organizing Secretary**, “National Conference on Medical Biotechnology & Clinical Research,” Jointly organized by Dept. of Biotechnology, Sir M. Visvesvaraya Institute of Technology and Dept. of Biotechnology, M.S. Ramaiah Institute of Technology, Bangalore, at J.N. Tata Auditorium, IISc Campus, Bangalore-560 012. October 2-3, 2009.
- Organizing Secretary**, One day, National Symposium on “NanoBoTechnology”, 1st September 2008, at M.S. Ramaiah Institute of Technology (MSRIT), (Autonomous Institute, Affiliated to VTU), M.S.R. Nagar, Bangalore-54
- Organizing Secretary**, One day National Symposium on “RECENT ADVANCES IN MEDICINAL BIOTECHNOLOGY, Faculty Development Program, Under Technical Education Quality Improvement Program (TEQIP), April 5, 2008, M.S. Ramaiah Institute of Technology, M.S.R. Nagar, Bangalore-54

TECHNICAL WORKSHOPS ORGANIZED

- Organizing Secretary**, Three days Technical Workshop on “Protein expression, purification and characterization”, jointly organized by Dept. of Biotechnology, MSRIT and MERCK India Ltd., at MSRIT, Bangalore-560 054. October 20th – 22nd, 2010.
- Convener**, eBiotech Workshop, Two days seminar cum hands on training, Maharani Lakshmi Ammanni College for Women (DBT-BIF Center) and M.S. Ramaiah Institute of Technology. May 9th - 10th, 2009, at Dr. K.N.V. Shastri Memorial Hall, MLACW, Bangalore-560012, Supported by DBT BTIS NET, Government of India.
- Organizing Secretary**, Three days Technical Workshop on “Immunological Techniques”, Under TEQIP, 19th – 21st February 2009, at M.S. Ramaiah Institute of Technology (MSRIT), (Autonomous Institute, Affiliated to VTU), M.S.R. Nagar, Bangalore-54
- Organizing Secretary**, Two day, Faculty Development Program on “BIOLOGY FOR ENGINEERS”, 16-17, April 2008, M.S. Ramaiah Institute of Technology, M.S.R. Nagar, Bangalore-54
- Advisory Committee Member**: One week, Faculty Development Workshop on “FOOD PROCESS ENGINEERING” Under Technical Education Quality Improvement Program (TEQIP), June 23-27, 2008, M.S. Ramaiah Institute of Technology, (Autonomous Institute, Affiliated to VTU), M.S.R. Nagar, Bangalore-54

NATIONAL SEMINARS & CONFERENCES: CHAIRED/JUDGE

- 2010 “National Conference on Molecular Medicine and Nanobiotechnology” Jointly organized by Dept. of Biotechnology, Sir M. Visvesvaraya Institute of Technology and Dept. of Life Sciences, Reva Institute of Science and Management, Bangalore. At NIMHANS Convention Center, NIMHANS, Bangalore. October 13th & 14th, 2010 (**Judge for Poster Presentations**).
- 2010 Symposium on “Innovations in Biofuel Technologies” Organized by the Department of Biotechnology, BMSCE, Bangalore, on 23rd April 2010 (**Chaired the Session-I**).
- 2008 “National Conference on Genomics, Proteomics, and Systems Biology,” Jointly organized by Dept. of Biotechnology, Sir M. Visvesvaraya Institute of Technology and Dept. of Biotechnology, Dayananda Sagar College of Engineering, Bangalore. At J.N. Tata Auditorium, IISc Campus, Bangalore-560 012. October 1-3, 2008 (**Judge for Poster Presentations**).

NATIONAL / INTERNATIONAL SEMINARS AND CONFERENCES ATTENDED

- 2009 National “Symposium on Emerging Trends in Naobiosciences and Workshop on Nanoscience Engineering” Organized by Dept. of Biotechnology & Department of Physics, Dayananda Sagar College of Engineering, Bangalore-560 078, November 19 & 20, 2009 (**Lead speaker**: Exploring the potential benefits of molecular nanotechnology).
- 2009 State level conference on “Recent advances in environmental science and engineering” Organized by Dept. of Biotechnology & Engineering, Shridevi Institute of Engineering and Technology, Thumkur-572 106, October 16 & 17, 2009 (**Lead speaker**).
- 2008 “National Conference on Genomics, Proteomics, and Systems Biology,” Jointly organized by Dept. of Biotechnology, Sir M. Visvesvaraya Institute of Technology and Dept. of Biotechnology, Dayananda Sagar College of Engineering, Bangalore. at J.N. Tata Auditorium, IISc Campus, Bangalore-560 012. October 1-3, 2008 (**Lead speaker**).
- 2009 Technical symposium on MEDSYM-2008 (under TEQIP) Organized by Department of Medical Electronics. M.S. Ramaiah Institute of Technology, Bangalore. 8th March, 2009.

- 1999 “National Roving Seminar on **Patenting in Biotechnology**”. Organized by the Department of Biotechnology (Government of India) and WIPO, at Central Institute of Medical and Aromatic Plants (CSIR) CIMAP Lucknow, UP, INDIA. On 5th Nov, 1999.
- 1991 22nd Annual Meeting of the Environmental Mutagen Society, Orlando, Florida, USA, March 25-29, 1991 (**Paper presentation**).
- 1990 47th Annual Meeting, Potomac division, American Phytopathological Society, Lake view Resort and Conference Center, Morgantown, WV, March 21-23, 1990 (**Paper presentation**).
- 1990 21th Annual Meeting of The Environmental Mutagen Society, Albuquerque, New Mexico, USA, March 25-29, 1990 (**Poster presentation**).
- 1989 5th International Conference on Environmental Mutagenesis, and 20th Annual Meeting of The Environmental Mutagen Society, Cleveland, Ohio, USA, July 10-15, 1989, (**Poster presentation**).
- 1986 "National Symposium on New Horizons in Resistance Breeding for Vegetable Crops". JNKVV, Jabalpur, MP, India, February 14-16, 1986 (**Paper presentation**).

RADIO/TV/SATELLITE PRGRAMS GIVEN

VTU EDUSAT PROGRAMME- SERIES 13, VTU eLearning Center, Delivered 9 lectures in (06BT55) Genetic Engineering and Applications. From 23rd August to 9th September 2010, VTU studio, DSERT, Bangalore.

UNIVERSITY/INSTITUTIONAL WORKS AND COMMITTEE ASSIGNMENTS

Member of Academic Council, M.S. Ramaiah Institute of Technology (Autonomous Institute, affiliated to VTU). M.S. Ramaiah Nagar, Bangalore-54, August 2007-09.

Chairman, Board of Studies (BoS), Department of Biotechnology, M.S. Ramaiah Institute of Technology (MSRT), M.S. Ramaiah Nagar, Bangalore-54. From 2007 to Present.

Chairman, Board of Examinations (BoE), Department of Biotechnology, M.S. Ramaiah Institute of Technology, M.S. Ramaiah Nagar, Bangalore-54. From 2007 to Present.

Examination Coordinator, Biotechnology (Bangalore region), Visvesvaraya Technological University, Belgaum, Karnataka 2008-2009.

Member, Board of Examinations (BoE), Visvesvaraya Technological University, Belgaum, Karnataka 2008-2009.

Member, Board of Examinations (BoE), Siddaganga Institute of Technology, Tumakur, Karnataka 2009-2010.

Paper Setter, BE Biotechnology, Visvesvaraya Technological University, Belgaum, Karnataka 2008-10.

Paper Valuator, BE Biotechnology, Visvesvaraya Technological University, Belgaum, Karnataka 2008-10.

Member Invitee, “**Roundtable conference on Biotechnology policy making**”. Chaired by **Mr. Kapil Sibal**, Honorable Union Minister for Science and Technology and Ocean Development, Government of India. For Developing Biotechnology Policy. Venue: Leela Palace Hotel, Bangalore. October 21, 2004

Assistant Chief Superintendent, VTU-Examinations, at M.S. Ramaiah Institute of Technology, M.S.R. Nagar, Bangalore-54.

Member, Board of Studies (BoS), Syllabus and Scheme of Examinations, B.Sc., Genetics, University of Calicut, Kerala 673 635. 2005.

Chief Superintendent of Examinations, Bangalore University, Bangalore, theory and practicals for both UG and PG. From 2003 to 2007.

Ex-officico of Governing Body, at Vydehi Institute of Biotech Sciences, Whitefield, Bangalore, Affiliated to Bangalore University and recognized by the Karnataka Government, Karnataka. From 2003 to 2007.

Examiner for M.Sc., Biotechnology Practical Examinations. Conducted by Bangalore University, Bangalore. From 2006 to 2007 Batches.

Member of Technical and Editing Committee: National Symposium on the Role of Biochemistry and Biotechnology in Twenty-first Century, Organized by Department of Biochemistry, University of Agricultural Sciences, G.K.V.K., Bangalore. Between 30-11 to 8-12-1998.

WORKSHOPS ATTENDED

- 2009 **TRAINERS' TRAINING PROGRAMME on 'Internalize Intellectual Property & Strategic Management of Intellectual Property Rights'**, Conducted by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Entrepreneurship Development Cell, "Jnana Sangama", Belgaum-590 018, Karnataka.
- 2009 Workshop on "MATLAB/MAPLE and its Applications" (under TEQIP) Organized by Department of Mathematics and Department of Instrumentation Technology, M.S. Ramaiah Institute of Technology, Bangalore. 9th to 13th February, 2009.
- 1999 **"Summer School on Molecular Diagnostics in Plant Sciences"**, Sponsored by ICAR, New Delhi, Organized by Department of Molecular Biology and Genetic engineering, and Department of Biochemistry. College of Basic Sciences and Humanities, G.B., Pant University of Agriculture and Technology, Pantnagar, INDIA. **June 20 - July 10, 1999.**
- 1997 Regional Workshop on **"Analysis of Protein and Nucleic Acid Sequences Using the GCG Package and Internet"** Bioinformatics Center, Indian Institute of Science, Bangalore-12, Karnataka, INDIA. **Between March 26 to 28, 1997.**

EXTRA CURRICULAR ACTIVITIES

Writing Poetry, Writing Science books and popular articles

Computer graphics: Graphics: Macromedia, Free Hand 8.0; Aldus Super Paint 3.5; Cricket Graph 3.0; Word Processing: Apple Works; Microsoft MS office.

Published Poems:

"Why you worry for the death", In "The Poet" International Journal, Chennai, TN

"The time flies", In "The Poet" International Journal, Chennai, TN

INVITED TALKS

Role of Academia in creating Industry-ready talent: measures taken and way forward. Industry Academia forum: Herb Boyer Auditorium: Biocon, 22 July 2011.

Designer Food crops. Invited by the T-John College, Bangalore, 5th March, 2009

Biotechnology applications in food processing. One week, Faculty Development Workshop on "FOOD PROCESS ENGINEERING" Under Technical Education Quality Improvement Program (TEQIP), June 23-27, 2008, M.S. Ramaiah Institute of Technology (M.S.R.T.), (Autonomous Institute, Affiliated to VTU), M.S.R. Nagar, Bangalore-54.

Strategies for optimization of recombinant protein production in *E. coli*. Invited by the Garden City College of Science and Management Studies. April 22, 2008.

Microarrays for gene profiling. Invited by the Garden City College of Science and Management Studies. 2004.

Molecular approaches in crop improvement, A symposium on recent trends in molecular biology and genetic engineering. Organized by Bioscience Association, CMR Institute of Management and Sciences (CMRIMS), Bangalore, on February 22, 2003.

Future Potentials of Basic Botany, Vignana Vedike-Science Forum: *Workshop on Basic Sciences: Shaping A New Renaissance* (Octo 3, 2002 to Octo 5, 2002). Organized by NMRKV College for Women, Jayanagar, Bangalore-11

Applications of Microarrays. One Day Seminars Series, Organized by the Department of Crop physiology, College of Basic Sciences and Humanities, UAS, G.K.V.K., Bangalore, on 2000.

Protein Synthesis and Secretion. Invited by Srimad Andavan Arts and Science College, Tiruchirapalli. On February 25, 2002.

Recent Advances in Biotechnology. Invited by the Garden City College of Science and Management Studies. November 30, 2000.

INVITED GUEST LECTURES

Book Review: Biology Text for 2nd Pre-University, by the Author, Dr. Y.V. Raghuvver, at Dr. H.N. Auditorium, National College, Basavanagudi, Bangalore-560 004, 28-06-2008

Virus induced gene silencing. Invited by the **Department of Crop physiology**, College of Basic Sciences and Humanities, UAS, G.K.V.K., Bangalore. On 5-7-2002.

"Genetic Engineering" Series of Guest Lectures, Invited by the **Department of Biotechnology**, National First Grade College, Bhoopasandra, Bangalore-94. From Nov 21–30, 2002.

Embryo cloning: an overview. Invited by the **Department of Crop physiology**, College of Basic Sciences and Humanities, UAS, G.K.V.K., Bangalore. On December 15, 2001.

Application of Bioinformatics in Biotechnology, series of lectures. Invited by **Bio Vin Campus, Veetech Infoline Pvt. Ltd.** Bangalore-20.

Molecular Mechanism of Carcinogenesis. Invited by the **Department of Crop physiology**, College of Basic Sciences and Humanities, UAS, G.K.V.K., Bangalore. On 1999.

RESEARCH TRAINING

1995 **Study of Molecular Mutagenesis** (DNA purification, Single-strand conformational polymorphisms, SSCP and DNA sequencing) and **Ames Assay** in Dr. Wen-Zong Whong's laboratory, National Institute of occupational safety and health (NIOSH), Morgantown, West Virginia, USA.

1994 Clonogenic cell culture assays for analysis of leukemic cells *in vitro*, at Dr. McCulloch's, Laboratory, Ontario Cancer Institute, Ontario, Toronto, Canada.

1991 **Polymerase Chain Reaction (PCR), Molecular Cloning and Probe preparation for diagnostics**, in Dr. Philip Liu's Diagnostic laboratory, UT-MD Anderson Cancer Center, Houston Texas, USA.

1989 **Processing and Observation of Plant materials for Scanning and transmission Electron microscopy studies**, in Dr. First's laboratory, Biology Department, Brooks Hall, Morgantown, West Virginia University, Morgantown, West Virginia, USA.

1988 Micronucleus Assay for Testing Genotoxicity of Environmental Pollutants *in vitro* and *in vivo*, at Dr. Kligerman's Laboratory, **Environmental Protection Agency (EPA)**, Durham, NC, USA.

1987 Micronucleus Assay in Binucleated Cells, for Detection of Clastogens and Aneuploidogens in Animal Cell Culture Models, at Toxicology Laboratory, **Park-Davis, Ann Arbor**, Michigan.

1986 *In vitro* Cell Culture of Primary Cells (Bone marrow, spleen, white blood cells) and immortalized cells; **Genotoxicity Testing Assays** (Micronucleus assay, Sister-Chromatid Exchanges (SCE), Chromosomal aberrations in *in vitro*, *in vivo* and *in vivo-in vitro* and immunofluorescent staining of kinetochores) in Dr. Ton-man Ong's laboratory, National Institute of occupational safety and health, Morgantown, West Virginia, USA.