

### ***Bio-data***

1. Name of the Teacher :Dr. MANJULA.C.
2. Educational Qualifications : M.Sc, M.Phil, Ph.D
3. Area of Specialization : Botany( Biochemistry and Biotechnology)
4. Experience  
Research : 10 Years Research Experience in ICAR Institutes  
Teaching : 13 Years Teaching Experience
5. Total Publications : 31 Research papers Published in National  
& International Journals.
6. Awards : Kerala Science congress award (1995)  
: ICAR Team Award (1994-96)
7. University level Membership : Member of Board of Studies (UG) Botany/  
In academic committees Plant Science of Kannur University 2007-2012.
8. College Level Membership : Member and Coordinator of various College level  
Committees.

### **LIST OF PUBLICATIONS**

**Manjula.C** .1990. Physiological and Biochemical changes during the germination of coconut (Cocos nucifera L.) M.Phil . Desertation ,University of Mangalore Karnataka.

**Manjula.C.,**Chembakam.B.,Rajagopal.v.1993.solubilization and utilization of coconut(Cocos nucifera .L)PLACROSYEM X.P.313-323.

**Manjula.C.,**Chembakam.B.,Rajagopal.v.1993.germination, growth and dry matter partition in coconut (Cocos nucifera .L)PLACROSYEM X.P.328-335.

**Manjula.C.,**Chembakam.B.,Rajagopal.v.1993. Changes of nut water constituents during seed **germination** in coconut (Cocos nucifera .L).J.OF.Plantation crops .6.3-10.

Nirmal Babu,K.,**Manjula.C.**, Geetha S.P.Ravindran.P.N.And Peter.K.V.1994.Medium cardamom germplasm an invitro approach.II.Asia Pasific

Conference on Agricultural Biotechnology.March.9-10.Madras (Abstack: p.57).

Ravindran P.N., **Manjula**.C.,Nirmal Babu.K., Rema.J AndPeter.K.V. 1994.Micropropagation of some importantspices and Medicinal Plants.Proc.ExpositionandWorkshop in.Micropropagated commercial plants.West Bengal Acadamy

Nirmal Babu,K.,**Manjula**.C., Geetha S.P.Ravindran.P.N.And Peter.K.V.1994.Medium term conservation of cardamom germplasm an invitro approach.II.Asia Pasific Con.Agric-Biotech.6-10,Madras.p.81-83.

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**Manjula**.C.,Geetha,S.P.And Sajina,A.1995.Invtro conservation of Genetic Resources of spices.Proc.of the 7<sup>th</sup> Kerala science Congress.Jan.1995.Palakkad.p.12-16.

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Nirmal Babu, k.,Minoo,D .**Manjula**, C.,Rema,J., Revindran,P.N and Peter,K.V. 1995. Short protocol for Micropropagation of Spices and Aromatic crops. A Book Published by National Research Centre For Spices .Calicut.Kerala

Nirmal Babu,k .**Manjula**,C,Geetha,S.P,Peter,K.V And Ravindran,P.N.Biotechnology its role in Coservation of Genetic Resources of Spices (Idid; 198-213)

Geetha,S.P,**Manjula**,C John, C.Z.,Minoo,D.Nirmal Babu,K.and Revindran,P.N.1997.Micropropagationof Kaempferia spp.(K.Galanga and K.rotundaL.).J.of Spices and Aromatic crops 6(2):129-135.

**Manjula**.C.,Geetha,S.P,Peter.K.V. Samsudeen,KandMinoo.D.1997.Biotechnological approach in Spices crops.J.of.Spices andAromatic crops 6(3):150-158.

Minoo.,D. **Manjula**.,C Samsudeen.,k and Nirmal Babu.,k.1997.Tissue culture propagation of Vanillla and its crop improvements.J.of Spices and Aromatic crops:6(3).77-83

Radha.,T and **Manjula**.,C1998.Physico-Chemical analysis ofAlphonso and Bangalora varieties ofMango.1998.J.of.Tropical Agiculture:84.145-146.

Radha.,T and **Manjula.**,C1999 . Characteristic of some plyembryony Mango types grown under Kerala conditions. Abstact in the sixth Inter National Mango Symboosium held at Thiland.p.25

Ratha.T., **Manjula.**, C and Aravindakshan.K. 1999.Comparactive performance of Tissue cultured plants and suckers of Pine apple variety Kew Indian .J. of Horticulture.45-48.

**Manjula.**C and Radha.T.2000.Early response of Mango variety Alphonso spacing and tree size control measure under Kerala conditions. National Seminar on Hitech Horticulture organized by National Academy of Agricultural Science, held at Bangalore 26<sup>th</sup>-28<sup>th</sup> June 2000, An Abstract 62-63.

Radha.,T and **Manjula.**,C1999 . Characteristic of some plyembryony Mango types grown under Kerala conditions. Acta Horticulture 509.Vol.1.p.135-143.

Indira.P.K And **Manjula.**C.2006.Medicinal plants in our vicinity, Description and uses.Book.Published by Dept. of Botany NAS College Kanhangad,Kasargod.,

**Manjula C.**, Samsudeen,K., Shafeeq Rehman and Rajesh, M K.2012. Morphological and molecular characterization of Kuttiyadi ecotypes of coconut(Cocos nucifera L.). Paper presented on the 22 Swadeshi science congress held at CPCRI, Kasaragod . Abstract published in the proceeding:105-106.

Samsudeen K., Thamban C., Niral V., Augustine Jerard B., Rajesh, M K., **Manjula C.**, Devadas D and Anitha Karun .2012.In-Situ approach for rapid characterization to aid conservation of coconut (Cocos nucifera L.)- A case study of two ecotypes from west coast of India. Journals of Plantation Crops.

**Manjula C.**, Samsudeen,K., Shafeeq Rehman and Rajesh, M K.2012. Morphological and molecular characterization of Kuttiyadi ecotypes of coconut(Cocos nucifera L.). Indian journal of Genetic& Plant Breeding.

**Manjula C.**2012.**Geographical** adaptation in West Coast Tall cultivar of coconut (Cocos nucifera L.). PhD thesis submitted to Kannur University.

**Manjula C.**, Samsudeen,K., Shafeeq Rehman and Rajesh, M K . 2013.Characterization of Annur and Bedakam Ecotypes of Coconut from Kerala State, India, Using Microsatellite

Markers," International Journal of Biodiversity, vol. 2014, Article ID 260895, 7 pa -2014. /260895.

**Manjula C.**, Samsudeen,K., Shafeeq Rehman and Rajesh, M K.2013. Characterization of Kuttiyadi ecotypes of coconut in India Using Morphological and Microsatellite Markers," International Journal of Genetics Plant Breeding and Biotechnology. Volume 73. November 2013. Page. 405.

**Manjula C.**, Samsudeen,K.and Sughatha P.2014.Fatty acid composition of oil from coconut (Cocos nucifera L.)ecotypes growing in two agro-climatic regions of Kerala. Book of abstracts on National Conference on sustainability of coconut, arecanut and cocoa farming- Technological advances and way forward 22-23 August 2014.CpCRI kasaragod. Page 45.

**Manjula C.**, Samsudeen,K., Shafeeq Rehman and Rajesh, M K.2014. Characterization of Kuttiyadi ecotypes of coconut in India Using Morphological and Microsatellite Markers,"JPC.2014.42(3):301-315.

**Manjula C.2015.**Germination performance of West Coast tall Coconut Seeds(Cocos nucifera L.)growing in two Agro-Climatic regions of Kerala.Academia.Vol.1. Published by NAS College kanhangad, Kerala. Pages.1-3.

**Staff Editor College Magazine 2014-2015 Named: OLI' Total 212 pages.**

**Manjula C.2016.** Soil conservation- Need of the Day. An Article Published In College Magazene OLI Pages.69-73.

### **Seminars/ Workshops/ Conference Attended during last Five Years (2012-2016)**

Participated International Conference on Coconut Biodiversity for prosperity Held during 25-28 October 2012 at CPCRI , Kasaragod.

FDP Deputation on 01.10.2010 to 31.09.2012

Participated two days workshop on Strategies on Reaccreditation held on 4 and 5<sup>th</sup> July 2012 at NAS College Kanhangad, Sponsored by National assessment and Accreditation Council, Bangalore.

Participated National seminar on Current Development in Biology conducted by the Department of Botany, Govt. College Kasaragod on 13<sup>th</sup> march 2012. Sponsered by Department of Collegiate Education Government of Kerala.

Participated and **Paper Presented** on “Morphological and Molecular characterization of Kuttiyadi Ecotypes of Coconut” in Swadeshi Science Congress on 6-8 November-2012, Organized by Swadeshi Science Movement and CPCRI Kasaragod.

Participated in the training cum Awareness Programm on the Protection of plant Varieties and Farmers Rights acts, held at CPCRI Kasaragod on 23<sup>rd</sup> March 2013. Organized by CPCRI kasaragod and Ministry of Agriculture Government of India.

Participated and **Paper Presented** on “Fatty acid composition of oil from coconut (Cocos nucifera L.) ecotypes growing in two agro-climatic regions of Kerala” in **International Conference** on Sustainability of Coconut, Arecanut, Cocoa farming Technological advances and way Foreword- Organized by CPCRI, Kasaragod during 22and 23, August 2014.

Participated Refresher course in Environmental Science From 18.11.2014 -08.12.2014. from Academic Staff College, Kannur, Sponsored by UGC.

Participated National seminar on “New Perspective on Decentralization: Youth, Woman, Marginalized and Local level Development” .Organized by PG Department of History NAS, College Kanhangad in Association with KILA on 9 and 10 March 2015.

Conducted, Chaired and Presented paper on” Effect of Climate Change on Coconut plants” in Two Day National Seminar on Climate changes- Challenges and Solutions Conducted by Department of Botany NAS College, Kanhangad on February 22-23. Sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE).

Participated Two day National Seminar on AQUACULTURE-AQUA 16 during 10<sup>th</sup> and 11<sup>th</sup> March 2016,Organized by Department of Zoology NAS,College ,Kanhangad and Sponsored by KSCSTE.