

## CURRICULUM VITAE OF DR R. CHITHIRACHELVAN

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### Examinations passed and degrees and technical qualifications obtained:

DEGREE	DEGREE	CLASS/ DIVISION	YEAR	MAJOR FIELD OF SPECIALIZATION	NAME OF THE UNIVERSITY / INSTITUTE / BOARD
Bachelor's Degree	B.Sc (Ag)	Second	1972	Agriculture	Tamil Nadu Agricultural University, Coimbatore
Master's Degree	M.Sc (Ag). Horticulture	First	1975	Horticulture	Tamil Nadu Agricultural University, Coimbatore
Doctorate Degree	Ph.D	First	1997	Horticulture	University of Agricultural Sciences, Bangalore
Title of Ph. D Thesis	Application of propagation techniques of mango ( <i>Mangifera indica</i> L.) and Cashew ( <i>Anacardium occidentale</i> L.) in horticultural education, research and practice.				

### Training programs attended

TITLE	DURATION	INSTITUTION	YEAR
1. Data mining and GIS for decision support in agriculture	Two weeks	Indian Institute of Management Lucknow	2009
2. Management Development Program in Agri Research	Two weeks	NAARM, Hyderabad	2000
3. Computer Networking	One week	CEDTI, Kozhikode	2000
4. Maintenance of Video Equipment	One week	M/s Telerad India, Ahmedabad	1999
5. Course on Computer Applications in Agri Research Management	One week	NAARM, Hyderabad	1990
6. Training in Instructional technology - Video	4.5 months	Cornell University, New York, USA	1990
7. Training in Videodisc design/ Production	One week	University of Nebraska-Lincoln, USA	1990

### Employment record

EMPLOYER	DESIGNATION	PERIOD	PAY CALE	NATURE OF DUTIES
ICAR	Scientist S-1 (Hort) IIHR, Bangalore	26.07.78 to 30.06.85	700 - 1300	Research in Fruit Crops
ICAR	Scientist S-2 (Hort) IIHR, Bangalore	01.07.85 to 27.05.87	1100 - 1600	Research in Fruit Crops

ICAR	Senior Scientist (Hort) NAARM, Hyderabad	28.05.87 to 29.12.99	12000-18300	Training in Agrl Research & Edn Management
ICAR	Principal Scientist NAARM, Hyderabad	27.07.98 to 09.08.00	16400-22400	Training in Agrl Research Management
ICAR	Head CHES, Chettalli	10.08.00 to 31.08.05	16400-22400	Research administration
ICAR	Principal Scientist IIHR, Bangalore	01.09.05 to 14.01.09	16400-22400	Research on fruit crops
ICAR	Principal Scientist & Head, Division of Fruit Crops, IIHR, Bangalore	15.01.09 to 14.01.2014	37400-67000	Research on fruits crops and research administration
ICAR	Principal Scientist Fruit Crops Division IIHR, Bangalore	15.01.14 to 30.04.2014	37400-67000	Research on Fruit Crops

### Documents published in the relevant field of specialization

TITLE	PAGES	PUBLISHERS	YEAR
1. Studies on growth and development of the fruit of CO2 papaya ( <i>Carica papaya</i> L.)	85	TNAU, Coimbatore	1975
2. Research report on impact of Agricultural Research Project Management Training, National Academy of Agricultural Research Management, Hyderabad	40	NAARM, Hyderabad	1991
3. Application of propagation techniques of mango ( <i>Mangifera indica</i> L.) and cashew ( <i>Anacardium occidentale</i> L.) in horticultural education, research and practice	700	UAS, Bangalore	1997
4. Compendium on Participatory video for social change	200	NAARM, Hyderabad	1998
5. Compendium on Internet usage in agriculture	100	NAARM, Hyderabad	2000
6. Compendium on Educational video production	150	NAARM, Hyderabad	2000
7. Compendium on Computer applications for administrative & finance personnel of TNAU	50	NAARM, Hyderabad	2000
8. Report by the subcommittee of Research Advisory Council	20	CHES, Chettalli	2001
9. Production of disease free planting material of Coorg mandarin	15	Deputy Commissioner, Madikeri	2002
10. Rejuvenation of Coorg mandarin	20	Deputy Director (Horticulture) Madikeri	2003
11. Impact Analysis of KVK (2002-05)	22	Krishi Vigyan Kendra, Gonikoppal	2005
12. Mango germplasm database (prototype CD)	-	IIHR, Bangalore	2007
13. Recent trends in fruit crops research (CD)	100	IIHR, Bangalore	2009
14. Compendium on Apomixis in Horticulture	30	IIHR, Bangalore	2011
15. Compendium on Quality seed and planting material production of horticultural crops	30	IIHR, Bangalore	2011
16. National Papaya Seminar Consultation Papers	500	IIHR, Bangalore	2013

## Experience

AREA	DURATION	INSTITUTION / ORGANIZATION	NOTES
Research on fruit crops	12 yrs	IIHR, Bangalore	Management of nutrients of fruit crops
Experience in Educational programmes/Computers/database development	13 yrs	NAARM, Hyderabad	<ul style="list-style-type: none"> <li>• Workshop on meaningful learning (Coordinator)</li> <li>• Officer in charge, Video Instruction &amp; Production Lab</li> <li>• Workshops (2) on Pedagogy (Coordinator)</li> <li>• Production of copyrighted and training videos</li> <li>• Maintenance of Computer Network</li> <li>• Training programs (4) on computers and Internet (Coordinator)</li> <li>• Development of databases and expert systems</li> </ul>
Scientific leadership in fruit crops research in high rainfall hilly region	5 yrs	Head, CHES, Chettalli/ KVK, Gonikoppal	<ul style="list-style-type: none"> <li>• Administration of Research Stations of IIHR, Bangalore</li> <li>• Project on rejuvenation of Coorg mandarin</li> <li>• Reorganization of research projects</li> <li>• Experiments on annatto and subtropical fruits (avocado, rambutan, durian, mangosteen, kokum, Malabar tamarind)</li> <li>• Production of disease free planting material of Coorg mandarin</li> </ul>
Scientific leadership	3 Years  5 Years	Principal Scientist, Plant Genetic Resources  Head Fruit Crops Division IIHR, Bangalore	<ul style="list-style-type: none"> <li>• Exploration to North East</li> <li>• Exploration to Andamans</li> <li>• Augmentation of core competence of scientists of the Division through a Capacity Improvement Program</li> <li>• Reorganization of research projects of the Division</li> </ul>
Educational and Scientific Management	1 year	Dean Rai Technology University	<ul style="list-style-type: none"> <li>• Initiated UG Programme in Agriculture</li> </ul>

### Awards/Recognition

<i>NAME OF THE AWARD/ PRIZE/RECOGNITION/ REVIEWER</i>	<i>AWARDING ORGANIZATION (PLACE / COUNTRY)</i>	<i>YEAR</i>	<i>NATIONAL / INTERNATIONAL / INSTITUTIONAL / PROFESSIONAL SOCIETY</i>	<i>INDIVIDUAL / COLLABORATIVE</i>
1. Senior Research Fellowship	ICAR	1986	National	Individual
2. Member of Editorial Committee on packaging of fruits & vegetables	Agri-horticultural Society, Hyderabad	1988	National	Collaborative
3. International Fellowship	FAO/UNDP/ICAR	1990	International	Individual
4. Leader of Software development team on payroll packages	ICAR	1998	National	Collaborative
5. Consultant (Video technology)	Ministry of Agriculture, Govt. of India, New Delhi	1998	National	Individual
6. Member Secretary of Committee on revival of Coorg mandarin in Kodagu	Deputy Commissioner, Zilla Panchayat, Kodagu	2001	Institutional	Collaborative
7. Member of Software development team for project budgeting	ICAR	1998	National	Collaborative
8. Editorial Committee on Foundation Course Notes for ARS scientists	NAARM, Hyderabad	1999	National	Collaborative
9. Member of Editorial Committee for National seminar on climate change	IIHR, Bangalore	2006	National	Collaborative
10. Vice-President, Society for Promotion of Horticulture	IIHR, Bangalore	2008	International	Collaborative
11. Member, International Society for Horticultural Science	ISHS Secretariat, Belgium	2009	International	Individual
12. Vice-President, Society for Promotion of Horticulture	IIHR, Bangalore	2014	International	Individual

### Teaching

<i>ITEM</i>	<i>DETAILS</i>	<i>YEAR</i>	<i>INDIVIDUAL / COLLABORATIVE</i>
<b>Courses taught</b>	PG Diploma in Agricultural Research Management and Education (Distant mode)	1997	Collaborative
<b>Designing of course</b>	PG Diploma in Agricultural Research	1996	Collaborative

<b>curriculum</b>	Management and Education (Distant mode)		
<b>Innovation in teaching methods</b>	Computer assisted instruction on propagation of mango and cashew	1997	Individual
<b>Major Guide for M.Sc / Ph.D</b>	One M.Sc student in Biotechnology	2002	Individual
	One M.Sc (Ag.) student in Horticulture	2014	Individual
	One Ph.D student in Horticulture	2015	Individual
<b>Courses in Horticulture</b>	<b>Undergraduates in Agriculture</b>	2015	Individual

### Research

<i>TYPE OF PROJECT</i>	<i>DETAILS SUCH AS TITLE, PI/CO-PI, ALLOCATION, ETC.</i>	<i>DURATION</i>	<i>ACCOMPLISHMENTS</i>	<i>INITIATION / FORMULATION</i>	<i>INDIVIDUAL/ JOINT</i>
Institutional	Nutritional studies on grape (Thompson Seedless & Anab-e-Shahi)-Co PI	7 years	Fertilizer schedule Critical levels of nutrients Time of application	Formulated & Initiated	Collaborative
Institutional	Crop regulation studies in guava-PI	6 years	Less pronounced effect on increasing winter yields	Formulated & initiated	Collaborative
Institutional	Impact of NAARM training-Co PI	2 years	Useful in learning new skills & techniques	Formulated & initiated	Collaborative
Institutional	Documentation of ITK in agriculture-PI	2 years	Enabled validation ITK	Formulated & initiated	Individual
Institutional	Application of propagation techniques in mango and cashew -PI	3 years	Development of CAI modules & decision support systems	Formulated & initiated	Individual
Sponsored	Introduction of improved varieties of acid lime, pummelo and avocado-Co PI	3 years	Evaluation of cultivars for high altitude/ rainfall Coorg conditions	Initiated	Collaborative
Consultancy	Rejuvenation of Coorg mandarin-PI	3 years	Package for rejuvenation	Formulated & initiated	Collaborative
Institutional	Nutritional studies in annatto-PI	5 years	Nutrient management for high yields	Formulated & initiated	Collaborative
Institutional	Collection, evaluation and improvement of mangosteen, durian, rambutan and litchi Co-PI	5 years	Collection from various resources and planting	Initiated	Collaborative

Institutional	Collection, characterization, evaluation, conservation and documentation of horticultural genetic resources-Activity Leader/Co PI	2 years	Collection of valuable & threatened <i>Mangifera</i> species from Andamans; Documentation of mango germplasm	Continued	Collaborative
Institutional	Integrated nutrition management trials in annona and edible fig-Activity Leader/Co PI	1 year	Development of growth model for edible fig	Continued	Collaborative

### Involvement in Participatory Technology Development

DETAILS OF TECHNOLOGY PACKAGES	YEAR(S)	ACCOMPLISHMENTS
Rejuvenation of declining Coorg mandarin trees	2003	Package included ITK of removal of dropped silver oak leaves to overcome allelopathic effects

### National / International Research Assignments

DETAILS	YEAR(S)	ACCOMPLISHMENTS	INDIVIDUAL / COLLABORATIVE
Household Food and nutritional security for tribal, backward and hilly areas	2000-02	Collection and evaluation of lime varieties Collection and evaluation of various species of Garcinia	Collaborative
Network Project on under-utilized fruits	2003	Collection and field planting of avocado, mangosteen, rambutan and durian	Collaborative

### Popularization of new technologies

TITLE OF TECHNOLOGY	METHODS ADOPTED	IMPACT ASSESSMENT	INDIVIDUAL / COLLABORATIVE
1. Arka Lohit chilli cultivation	Demonstration	Well received	Individual
2. Artificial pollination in vanilla	Demonstration	Highly useful	Individual
3. Surya papaya cultivation	Demonstration	Moderately accepted	Individual
4. Use of azolla in rice cultivation	Demonstration	Well received	Collaborative
5. Duroc pig rearing	Demonstration	Highly accepted	Collaborative
6. Control of pepper wilt	On farm trial	Successful use of IDM	Collaborative

7. Evaluation of cardamom varieties	On farm trial	--	Collaborative
Innovation of new extension technologies	Computer Assisted Instruction on Mango and cashew (multimedia) for use by farmers		
Collaborative extension programmes			
1. Demonstration of use of Azolla in rice cultivation (ARS, Ponnampet)			
2. Onfarm trial on use of botanicals in control of rice blast disease (ARS, Ponnampet)			
3. Demonstration on chemical control of coffee berry borer (Coffee Board)			

### Training Programmes Conducted

<i>PROGRAMS</i>	<i>YEAR</i>	<i>DURATION</i>	<i>NUMBER OF BENEFICIARIES</i>	<i>CO-ORDINATOR / ASSOCIATED</i>
1. Orientation course on Agricultural research project management	1988	One month	60	Coordinator
2. Foundation course on agricultural research project management (3)	1989 1991 1993	Four months	290	Coordinator
3. Videography in agriculture (2)	1997 1997	Two weeks	5 6	Coordinator
4. Educational Video Production (2)	1998 1999	Two weeks	16 6	Coordinator
5. Participatory video for social change (2)	1992 1998	Two weeks	20 5	Coordinator
6. Executive development program on computer applications in agricultural research and education (2)	1999 2000	One week	40	Coordinator
7. Internet usage in agriculture	2000	Two weeks	16	Coordinator
8. Training program in horticulture for farmers (KVK) (3)	2003 2004 2005	1-7 days	834 1285 3578	Coordinator
9. Training program in horticulture for extension functionaries	2005	2 days	75	Coordinator & trainer
10. Capacity Improvement Program-Recent trends of research in fruit crops	2009	One week	24	Coordinator & trainer
11. Training on Apomixis in Horticultural Crops	2011	One week	10	Coordinator
13. International training programme on	2011	Two weeks	18 from 11 African	Coordinator

Quality seed and planting material production of horticultural crops			Countries	
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### Organization of Kisan Melas, exhibitions

PROGRAMS	YEAR	DURATION	NUMBER OF BENEFICIARIES	CO-ORDINATOR/ ASSOCIATED
Krishi Mela, Kudige, Kodagu	2002	One week	--	Associated
Krishi Mela, Ponnampet	2001	One week	--	Associated

### Special Attainments

CATEGORY	TITLE	YEAR	DETAILS	INDIVIDUAL/ COLLABORATIVE	ADDITIONAL INFORMATION
Prototype development	PROPEX Expert System	1997	Decision support system	Individual	Helps in mango propagation
Attainment of merit	Completed 4 courses at Cornell University, USA 1. Video communication I 2. Video communication II 3. Communication for social change 4. Participatory approach to action research	1990	3 credit hours 3 credit hours 3 credit hours 3 credit hours	Individual	Grade A Grade A Grade A Grade A

### Externally Funded Projects

PI OR CO-PI/ ASSOCIATED SCIENTIST	TITLE OF PROJECT(S)	YEAR	AMOUNT	FUNDING AGENCY
Co PI	Household Food and Nutritional security for tribal, backward and hilly areas	2000	25 lakhs	NATP
PI	Copyrighted videos (2 for CPCRI & 1 for PDBC)	2000	07.5 lakhs	CPCRI, PDBC
Co PI	National network project on underutilized fruits	2003	97 lakhs	ICAR Network
PI	Rejuvenation of Coorg mandarin in Kodagu	2003	04 lakhs	Govt. of Karnataka
PI	Rapid multiplication of IIHR varieties of fruit crops	2013	25 lakhs	Govt. of Karnataka

### Organization of Winter School/ Summer School/ Refresher Course/ Seminar/ Symposium

NAME OF THE PROGRAM ORGANIZED	LEVEL OF PARTICIPATION	TITLE	YEAR	DURATION	FUNDING AGENCY
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Workshop (3)	Senior level scientists in ICAR/SAUs	Meaningful learning as a communication process	1991 1992 1993	Two days	ICAR/SAUs
Workshop (3)	Teachers/trainers in ICAR/SAUs	Pedagogy	1998	Two days	ICAR
Seminar	Officials & farmers	Rejuvenation of Coorg mandarin	2001	One day	Kodagu ZP
Seminar	Scientists of ICAR/SAUs	Impact, adaptation and vulnerability of horticultural crops to climate change	2005	One day	ICAR/SAUs
Training	Scientists of Fruit Crops Division	Enhancing the capabilities of fruit crops scientists	2009	One week	IIHR
Seminar	Scientists of ICAR/SAUs	National consultation on pomegranate	2011	One day	IIHR
Focus Group Meeting	Scientists of ICAR/SAUs	Assessment of future human capital requirements in horticulture	2011	One day	ICAR
Seminar	Scientists of ICAR/SAUs	National consultation on Mango	2012	One day	IIHR
Seminar	Scientists of ICAR/SAUs	National consultation on papaya	2012	One day	IIHR
Workshop	Scientists of ICAR/SAUs and Presidents of Growers Associations	National Meeting on Fruit Crops : An Interface	2013	One day	IIHR

### International Exposure

COUNTRY	PURPOSE / SUBJECT TITLE	YEAR	DURATION	SPONSOR
USA	Instructional Technology-Video	1980	4.5 months	FAO/UNDP
USA	Videodisc design/production	1980	Two weeks	FAO/UNDP

### Languages known:

SPEAK ONLY	READ, WRITE & SPEAK
Kannada, Telugu	Tamil, Hindi, English, German

### Publications:

TYPE	No.
Research/Conference papers	75
Commercial Videos	03
Training Videos	54
Lecture materials	29
Crop Databases	02
E-Repository	01

### Honours/Awards/Fellowships:

1. ICAR Senior Research Fellowship in Horticulture
2. FAO/UNDP Fellowship in Instructional Technology

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## PUBLICATIONS

### Full length papers

1. Chithiraichelvan R and Shanmughavelu K.G 1976. Organic acids during the growth and development of CO. 2 papaya (*Carica papaya* L.) *J Assam Sci Soc.*, **19** : 138.
2. Chithiraichelvan R and Shanmughavelu K.G 1976. Sugar fractions during the growth and development of CO. 2 papaya (*Carica papaya* L.) fruit. *Sci. & Cult.*, **43** : 542-3.
3. Chithiraichelvan R and Shanmughavelu K.G 1976. A study on the correlation of fruit weight and volume with seed weight and number in CO.2 papaya (*Carica papaya* L.) *Indian J. Hort.*, **35** : 222-4.
4. Chithiraichelvan R and Shanmughavelu K.G 1977. Studies on the physico-chemical changes during growth and development of CO2 papaya (*Carica papaya* L.) seeds. *Seed Res.*, **5** : 32-6.
5. Chithiraichelvan R and Shanmughavelu K.G 1977. Certain bio-chemical changes during the growth and development of papaya (*Carica papaya* L.) fruit. *Food, Fmg and Agri.*, **8** : 13-4.
6. Shanmughavelu K.G. Selvaraj P. Veerannah L and Chithiraichelvan R. 1976. Effect of ethephon on the ripening of fruits. *Progr. Hort.*, **8** : 89-96.
7. Shanmughavelu K.G Chithiraichelvan R and Madhavarao V.N 1976. Effect of ethephon latex stimulant on papaya (*Carica papaya* L.) *J. Hort. Sci.*, **51** : 425-7.
8. Chithiraichelvan R and Shanmughavelu K.G 1979. Studies on the growth and development of fruit of CO.2 papaya (*Carica papaya* L.) . II. Changes in biochemical conditions. *Indian J. Hort.*, **36** : 42-8.
9. Shikhamany S.D Chithiraichelvan R Chadha K.L and Ramachander P.R. 1983. Determination of leaf area by its linear measurements in Thompson seedless grape (*Vitis vinifera* L.) *Indian J. Hort.*, **40** : 18-20.
10. Ramachander P.R Shikhamany S.D. and Chithiraichelvan R. 1984. Investigation in optimum plot sizes of vines (*Vitis vinifera* L.). *Indian J. Hort.*, **41** : 127-30.
11. Chithiraichelvan R Shikhamny S.D. and Chadha K.L 1984. Evaluation of low yielding vines of Thompson Seedless (*Vitis vinifera* L.) for nutrient analysis by DRIS . *Indian J. Hort.*, **41** : 166-70.
12. Chithiraichelvan R Shikhamny S.D. and Chadha K.L 1984. Effect of cane twisting on apical dominance in Thompson Seedless grape (*Vitis vinifera* L.). *South Indian Hort.*, **32** : 234-5.
13. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1985. Determination of critical levels of petiole nutrient contents for Thompson Seedless grapes (*Vitis vinifera* L.) *Indian J.Hort.*, **42** : 8-11.
14. Chithiraichelvan R Shikhamny S.D. and Chadha K.L 1985. Contribution of leaf area towards bunch development in Thompson Seedless grape (*Vitis vinifera* L.). *Indian J.Hort.*, **42** : 156-60.
15. Chithiraichelvan R Shikhamny S.D. and Chadha K.L 1987. Effect of preharvest irrigation cut off on bunch size, ripening and quality of Anab-e-Shahi grape (*Vitis vinifera* L.). *Indian J.Hort.*, **44** : 9-13.
16. Chithiraichelvan R Shikhamny S.D. and Chadha K.L 1987. Variation in the leaf chlorophyll contents in relation to leaf position and stages of berry growth in Thompson Seedless grape (*Vitis vinifera* L.) : *South Indian Hort.*, **35** : 187-91.
17. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1988. Effect of varying levels of nitrogen and potash on petiole nutrient contents in Thompson Seedless grapes (*Vitis vinifera* L.) *Indian J.Hort.*, **45** : 180-88.
18. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1989. Relationship of petiole nutrient contents at different stages with yield components in Thompson Seedless grapes (*Vitis vinifera* L.) *Indian J.Hort.*, **46** : 1-7.

19. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1989. Effect of varying levels of nitrogen and potash on vine growth, fruit yield and quality in Thompson Seedless grapes (*Vitis vinifera* L.) *Indian J.Hort.*, **46** : 303-9.
20. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1990. Response of Thompson Seedless grape (*Vitis vinifera* L.) to varying levels of nitrogen and potash. *Indian J. Hort.*, **47** : 359-63.
21. Shikhamany S.D., Chithiraichelvan R. and Chadha K.L. 1990. Variation in vine growth, fruit yield and quality of Thompson Seedless grape (*Vitis vinifera* L.) as influenced by split application of nitrogen and potash. *Indian J.Hort.*, **47** : 359-64.
22. Karunakaran G., Chithiraichelvan R. Sakthivel T and Sudhir Kumar. 2007. Role of agrochemical sprays on enhancing the seedling growth of citrus species. *Indian J. agric. Sci.* **77** (4) : 299-301.
23. Sudhir Kumar., Sakthivel T, Chithiraichelvan R and Karunakaran G. 2007. Effect of time, media and root inducing auxins in guava cv. Allahabad Safeda under high rainfall area of Kodagu. *Annals of Agrl Research (New Series)* **28** (1) : 10-4.
24. Sudhirkumar, Chithiraichelvan R, Karunakaran G and Sakthivel T. 2008. Studies on propagation of passion fruit cv Kaveri by cuttings under Coorg conditions. *Indian J. Hort.*, **65** (1) :106-09.
25. Kumar Sudhir, Chithiraichelvan R., and Karunakaran G. 2011. Performance of *aonla* cultivars for yield and physico-chemical properties under Coorg conditions. *Indian J. Hort.*, **68** (2): **268-9**.
26. Sudhir Kumar, Venugopalan, R., Rao, V. K., Nair, A. K. and Chithiraichelvan, R. 2012. Requirement of major nutrients for annatto (*Bixa orellana* L.) seed yield and bixin content, *Indian J. Hort.*, **69** (3): 399-403.
27. Tripathi, P.C, G. Karunakaran. T.Sakthivel, H.Ravishankar, R.Chithiraichelvan, V.V.Sulladmath, T.K.Jacob., S.J. Anke Gowda, M.N.Venugopal and R. Senthil Kumar. 2013. New pepper clone - Arka Coorg Excel suitable for high altitute Kodagu region of Karnataka. *Spice India*, **26** (3): 8-10.
28. Vasugi, C., Dinesh, M. R., and R.Chithiraichelvan. 2013. Genetic diversity in Appemidi pickle mangoes. *Journal of Horticultural Sciences*. **8**(2):224-227.
29. Chithiraichelvan, Ravindra Kumar, S. Ganesh and R. Venugopalan. 2013. Simple models for non-destructive leaf area prediction in fig (*Ficus carica* L.) cv. Deanna and Poona. *Indian Journal of Arid Horticulture* **8**(1-2): 10-15.
30. Ravindra Kumar, S. Ganesh, R. Chithiraichelvan, K.K. Upreti and V.V. Sulladmath. 2014. Effect of spacing and pruning on growth, yield and quality of cv. Deanna fig (*Ficus carica* L.). *Journal of Horticultural Sciences* **9**(1): 31-37.
31. Makki Ramachandra Dinesh, Kundapura Venkataramana Ravishankar, P. Nischita, B. S. Sandya, B. Padmakar, S. Ganeshan, R. Chithiraichelvan, T. V. R. S. Sharma. 2015. Exploration, Characterization and Phylogenetic Studies in Wild *Mangifera indica* Relatives, *American Journal of Plant Sciences*, **6** (13):2151-60.
32. Kumar Ravindra, Chithiraichelvan R, Ganesh S, Upreti K.K and Sulladmath V. 2015. Effect of different spacing and pruning levels on growth, yield and fruit quality in fig (*Ficus carica* L.) cv. Poona. *Journal of Applied Horticulture*, **17**(1):52-7.

#### Book published/edited

1. Venkatratnam L. Anwer M.M. Chithiraichelvan R. Satyanarayana G. and Rameshwar A. (Ed.) 1988. Packaging of fruits and vegetables in India. Agri-Horticultural Society of India, Hyderabad.
2. Chithiraichelvan.R 2012. Production technology of fig. In: Production technology of tropical fruit crops - A handbook. IIHR, Bangalore.
3. Chithiraichelvan.R, Kurian RM & Gaddagimath PB. 2012. Production technology of fig. In: Production technology of tropical fruit crops - A handbook. IIHR, Bangalore.

4. Vasugi C, M. R. Dinesh, **R Chithiraichelvan** and M.Senthil Kumar 2013. Tender Mango: Genetic Characteristics and evaluation . *In: Book on Horticulture* published by Secretary, All India Scientific Tamil Association, Thannambikkai Off set printers, Coimbatore, Tamil Nadu. pp.87-88.
5. **Chithiraichelvan, R.** 2013. National Papaya Consultation Papers, Indian Institute of Horticultural Research (ICAR), Bangalore.
6. Vasugi, C., Dinesh, M. R., Ravishankar, K.V. and **Chithiraichelvan, R.** 2014. *Ex-situ* conservation and evaluation: A method for selection of indigenous varieties of mango. *In: Perspectives on biodiversity of India*. Vol.I, Biju Kumar *et al.*(Eds), CISSA, pp.258- 65.
7. Dinesh M.R and **R. Chithiraichelvan**, 2014. Papaya. *In: Tropical and subtropical fruit crops: Crop improvement and varietal health*. Part II. S.N. Ghosh (Ed.), Jaya Publishing House, New Delhi. Pp. 485-526.

#### Research Reports /Extension Bulletins/Leaflets

1. Raman K.V. Samanta R.K., **Chithiraichelvan R.** and Gadewar A.U. 1991. Impact of Agricultural Research Project Management Training, National Academy of Agricultural Research Management, Hyderabad.

#### Research notes/Seminar/Symposia papers/Popular articles

1. **Chithiraichelvan R** and Shanmughavelu K.G 1976. Studies on the physico-chemical changes during growth and development of papaya (*Carica papaya* L.) seeds. Proc. of the Intl Symposium on Physiology of Sexual Reproduction in Flowering Plants. Pp 262-65.
2. **Chithiraichelvan R.** 1988. Packaging of papaya. In Packaging of fruits and vegetables. Agri Horticultural Society, Hyderabad pp 87-90.
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#### Instructional videos

1. An instructional video on coconut

#### Copyrighted videos

1. CPCRI at a glance
2. Integrated pest and disease management in coconut
3. PDBC at a glance

#### Trainee Videos (54)

### Training materials

1. Effective communication through audio-visual aids.
2. Photography and slide making.
3. Multimedia in agricultural education.
4. Communication technologies of the future.
5. Video communication.
6. Visual articulation.
7. Participatory approaches to agricultural research.
8. Indigenous knowledge in agriculture.
9. Use of video in training.
10. Computer applications in agriculture.
11. Artificial intelligence and expert systems in agriculture.
12. Basics of computers.
13. Windows operating system.
14. MS-Powerpoint and effective presentations.
15. Internet usage and information access.
16. Ragging and its prevention (PPT)
17. The Internet and World Wide Web (PPT)
18. About Horticulture Division of ICAR (PPT)
19. Area, Production & Productivity of Agricultural Enterprises in India (PPT)
20. Agro-climatic zones of India (PPT)
21. Importance of Horticulture (PPT)
22. Classification and distribution of Horticultural Crops (PPT)
23. Grafting and Budding (PPT)
24. Art, Science, Business & Basics of Crop Production (PPT)
25. Horticultural Crops in health and nutritional security (PPT)
26. Training and Pruning (PPT)
27. Best Practices in Higher Education (PPT)
28. Mango Production - An Overview (PPT)
29. Current Scenario of Papaya (PPT)

### Databases developed

1. A database on Citrus collections at CHES, Chettalli.
2. A database on Mango germplasm at IIHR, Bangalore