



## UNIVERSITY OF CALCUTTA



### FACULTY ACADEMIC PROFILE/ CV

1. **NAME OF THE FACULTY MEMBER:** Dr. PINAKI ACHARYYA
2. **DESIGNATION:** ASSOCIATE PROFESSOR  
**SPECIALIZATION :** HORTICULTURE
3. **CONTACT INFORMATION :**  
DEPARTMENT OF HORTICULTURE, INSTITUTE OF AGRICULTURAL SCIENCE,  
UNIVERSITY OF CALCUTTA, 51/2 HAZRA ROAD, KOLKATA 700019  
e-mail: [pinakiacharyya@yahoo.co.in](mailto:pinakiacharyya@yahoo.co.in) Mobile : +91-9830576299
4. **ACADEMIC QUALIFICATIONS:**  
*Please mention here the degrees (graduation onward):*

College/ university from which the degree was obtained	Abbreviation of the degree
Banaras Hindu University(BHU)	B.Sc(Ag)
Banaras Hindu University	M.Sc(Ag) in Horticulture
Banaras Hindu University	Ph.D in Horticulture

5. **POSITIONS HELD/ HOLDING:**

- Associate Professor, Department of Horticulture, University of Calcutta(w.e.f. 01.11.2015).
- Senior Scientist(Vegetable Science), ICAR- Central Institute for Arid Horticulture, Bikaner, Rajasthan (14/01/2014 to 30/06/2016).
- Member, Syndicate, University of Calcutta (December 2017 to November 2018)
- Ex-Nodal officer, Plant genetic resources management of ICAR-CIAH, Bikaner, Rajasthan..

- Ex- Member of the Publication committee, ICAR Central Institute for Arid Horticulture, Bikaner, Rajasthan.
- Head, Department of Horticulture, University of Calcutta for three successive terms (November 2006 to December 2013 & Nov 2016 to Nov 2018).
- Member Senate, University of Calcutta during 2012, 2013 and 2017.
- Ex-Member of the governing committee in the Center for Testing & Training for providing technical back up to the beneficiaries of agriculture & horticulture development, University of Calcutta.
- Convenor, Ph.D committee, Dept. of Horticulture, University of Calcutta.
- Assistant Professor, Department of Horticulture, Institute of Agricultural Science, University of Calcutta (12/05/2003 to 13/01/2014) (Thereafter *on lien*).
- Lecturer, SASRD, Medziphema, Nagaland University, 24.07.2000 to 11.05.2003.

#### 6. **RESEARCH INTERESTS:**

- Genetic diversity and evaluation of horticultural crops through morphometrics and molecular characterization .
- Breeding & Crop improvement in vegetables through hybridization programmes with emphasis on abiotic and biotic stress factors.
- Quality assessment of high value horticultural produce through fast track analytical procedures.
- Modification of sex expression in selective horticultural crops.

#### 7. **RESEARCH GUIDANCE :**

Number of researchers awarded Ph.D degrees : Seven

Number of researchers pursuing Ph.D : Three.

Number of M.Sc(Ag) students in Horticulture guided: 35

#### 8. **PROJECTS :**

##### ***Completed projects :***

1. Genetic diversity and characterization of *Momordica* sp. in Eastern and North Eastern India through agro-morphological characters and molecular markers (Funding Agency: UGC-UPE, Status: Completed)
2. Establishment of leaf tissue analysis laboratory (Funding Agency: NHM, Status: Laboratory established and functioning)

##### ***Projects (Handed Over) :***

1. Alleviation of climatic constraints on growth of vegetable crops under hot arid regions with an understanding on its seed physiology.(Funding Agency: ICAR. Status: Was PI of the Project during my tenure at ICAR CIAH, Bikaner).
2. Exploitation of arid fruits and vegetables for value addition and commercialization (Funding Agency: ICAR ,Was the Co-PI of the Project during my tenure at ICAR CIAH, Bikaner.)

3. Introduction, collection, characterization, conservation and evaluation of germplasm of indigenous and exotic underutilized fruit crops (Funding Agency: ICAR ,Was the Co-PI of the Project during my tenure at ICAR CIAH, Bikaner).

## 9. SELECT LIST OF PUBLICATIONS:

### a) *Journals*:

#### **Research Publications (2010 onwards)**

- **Acharyya,P.**, Banerjee,A., Mukherjee,D., Mandal,J. and Sahoo,B.2020.Impact of Different Types of Organic Mulch on Growth, Yield, Soil Dynamics and Weed Infestation in Beetroot (*Beta vulgaris* L.cv. Detroit Dark Red) Plots. *Int.J.Curr.Microbiol.App.Sci* 9(7): 1419-1427. DOI: 10.20546/ijcmas.2020.907.163
- Mandal,J., **Acharyya.P.**,Bera.R. and Mohanta,S.2020.Response of Onion to NPK, S and Micronutrients. *Int.J.Curr.Microbiol.App.Sci* 9(6): 1137-1144. DOI: 10.20546/ijcmas.2020.906.141
- Biswas, Subhankar., Banerjee, Anannya., **Acharyya, Pinaki\***and Chakraborty, Nirmalya.2020. Response of French Bean (*Phaseolus vulgaris* L. cv. Arka Arjun) to Rhizobium Inoculation under Varied Levels of Nitrogen and Molybdenum. *Int.J.Curr.Microbiol.App.Sci* 9(3): 2759-2767.
- Sahoo,Biswanath., Nedunchezhiyan, M., **Acharyya,P.**,Munshi,,R., Tripathy,S. Sahu,D., Kumari Sunita and Toppo, Madhuri.2019. Effect of Secondary and Micronutrients on Growth Attributes, Yield and soil Enzyme Activity of Elephant Foot Yam – A Review. *Int.J.Curr.Microbiol.App.Sci.* 8(12): 950-955.
- Malakar,.M.,**Acharyya, P.** And Biswas,S. 2019. Effect of silver nitrate and sucrose on the vase life of Gerbera (*Gerbera jamesonii* H. Bolus) cut flowers. *Journal of Crop and Weed.* 15(2): 46-51.
- Malakar, M., **Acharyya., P.** And Biswas,S.2019. Consequences of divergent vase solutions on postharvest durability and quality of Heliconia inflorescences. *Acta Horti.* 1256. ISHS 2019. DOI 10.17660/ActaHortic.2019.1256.11 Proc. VI International Conference Postharvest Unlimited Eds.: D. Valero *et al.*

- Malakar,.M., **Acharyya., P.** And Biswas,S. 2019. Rejoinder of diverse organic growing media on morphological attributes of nine Heliconia species and varieties under West Bengal condition. *Journal of Crop and Weed*, 15(1): 35-44.
- Malakar,.M., **Acharyya., P.** And Biswas,S. 2019. Study on genetic variability and correlation for floral traits and yield in *Heliconia* genotypes. *Journal of Crop and Weed*, 15(1): 64-72.
- Malakar,.M., **Acharyya., P.** And Biswas,S. 2019. Effect of different media for dehydration of some ornamental flowers. *Acta Horti*. 1255. ISHS 2019. DOI 10.17660/ActaHortic.2019.1255.25 Proc. Int. Symp. on Horticulture: Priorities and Emerging Trends Eds.: M.R. Dinesh *et al.*
- Sahoo, Biswanath., Nedunchezhiyan, M., **Acharyya, P.**, Munshi, R., Sahu, D., Toppo, Madhuri., Tripathy, Suchismita and Kumari Sunita .2019. Site-specific Nutrient Management in Elephant Foot Yam-A Review. *Int.J.Curr.Microbiol.App.Sci* . 8(9): 1591-1596.
- Munshi, . Rituparna., Debbarma , Ajanta., **Acharyya,Pinaki \***, Chattopadhyay, Arup. , Mishra , Pritam., Chakraborty, Lopamudra and Sahoo, Biswanath.2019.Salt Induced Modulation on Physio-Biochemical Attributes in Okra (*Abelmoschus esculentus* (L.) Moench. *Int.J.Curr.Microbiol.App.Sci*. 8(6): 2883-2892.
- Ghosh, Souvik., Mandal,Joydip., **Acharyya,P.**, Banerjee, Anannya and Munshi,Rituparna.2019. Influence of organic soil amendment on production potential of Okra (*Abelmoschus esculentus* L. Moench)cv. Avantika. **Indian Agriculturist**.63(1&2):27-32.
- **Acharyya,P.**, Debbarma,Puspa Laxmi., Banerjee, Anannya and Munshi,Rituparna.2019. Impact of organic and synthetic mulch materials on Tomato.(*Lycopersicon esculentum* cv. Pusa Ruby). **Indian Agriculturist**.63(1&2) :19-25
- Sahoo,B., Nedunchezhiyan,M.,**Acharyya,P**, Munshi,R. and Sahu,D..2019. Effect of secondary and micronutrients on growth attributes and yield of elephant foot yam (*Amorphophallus paeonifolius*).**Int.J.Curr.Microbiol.Appl.Sci**. 8(5): 323-330.
- Sahoo,B.,Nedunchezhiyan,M.,**Acharyya,P**, Munshi,R., Pradhan,R and Sahu,D.2018. Biomass production and partitioning at various phenophases of elephant foot yam as influenced by fertility levels. . **Indian Agriculturist**.62(3&4) :131-137.

- Malakar,M., **Acharyya,P.** and Biswas,S.2018.Effect of different pulsing treatments on longevity and freshness of some decorative cut foliage.**Journal of Crop and Weed.** 14 (3):49-56.
- Mandal,J., Acharyya,P.,Singh,W.D. and Mohanta,S.2018. Studis on set production of Onion (*Allium cepa* L.) cultivars. **Journal of Allium Research** : 1(1): 28-31.
- **Acharyya,P.**,Majumder,A.,Malakar,M.,andBiswas,S.2017.Standardization of dehydration techniques of some selected flowers. **Acta Horticulturae.** V1181 :85-92.(DOI No; 10.17660/ActaHortic.2017.1181.11).
- Malakar,M., **Acharyya,P.** and Biswas,S.2017.An approach to colour preservation of some dehydrated flowers and foliage. **Journal of Crop and Weed.** 13 (3):117-125.
- Malakar,M., **Acharyya,P.** and Biswas,S.2017.Vertical gardening for enlivening the ambiance. **Journal of Crop and Weed.** 13 (3):89-93.
- Malakar,M., **Acharyya,P.** and Biswas,S.2017.Effect of certain chemicals on post harvest life of some cut foliage. **International Journal of Agriculture, Environment and Biotechnology.**10(2):199-207.(DOINo:10.5958/2230-732x.2017.00023.7)
- Malakar,M. and **Acharyya,P.** 2017. Versatility of Rambling Rose Thicket's.**The Indian Rose Annual.** XXXIII.pp:111-116.
- Sahoo,B., Nedunchezhiyan,M. and **Acharyya,P.**2016. Incidence of collar rot in elephant foot yam (*Amorphophallus paeoniifolius* (Dennst.)Nicolson.) as influenced by varied nutrient regimes in east and south-eastern coastal plain zone of Odisha. **Journal of Crop and Weed.** 12(3): 160-162.
- Khara,S.N., Thakur,P.K., **Acharyya,P.** and. Dhua,R.S.2016.Characterization of different cultivars of mango commercially grown in Malda, India.**Journal of Postharvest Technology.** 04(04): 50-55.
- Mondal,C.K.,**Acharyya,P.** and Saha, U.2016.Evaluation of chilli genotypes against chilli leaf curl complex based on phenol and isozyme study.**The Bioscan.**11(4): 3011-3016(Supplement on Genetics and Plant Breeding).
- Malakar,M., **Acharyya,P.** and Biswas,S.2016. Standardization of dehydration techniques of some ornamental foliage. **International Journal of Agriculture, Environment and Biotechnology.**9(4):555-562.(DOI No: 10.5958/2230-732x.2016.00073.5)
- Mondal,C.K.,**Acharyya,P.** and Saha, U.2016. Study on genetic diversity in chilli (*Capsicum annum*) based on multivariate analysis and isozyme analysis. **Journal of Applied and Natural Science.**8(4): 1884-1892.
- Sahoo,B., Nedunchezhiyan,M. and **Acharyya,P.**2016.Yield potential and economics of elephant foot yam (*Amorphophallus paeoniifolius* (Dennst.)Nicolson.)as influenced by

fertility levels, light interception and soil resistance. **Indian Agriculturist**.60(1&2) : 65-69.

- Malakar,M., **Acharyya,P.** and Biswas,S.2016. Environment- Friendly Natural Turf for more comfort for users: A review. **IOSR Journal of Agriculture and Veterinary Science**.9(09): 09-15.(DOI: 10.9790/2380-0909010915)
- Malakar,M., **Acharyya,P.** and Biswas,S.2016. Micropropagation of commercially feasible foliage ornamental plants. **Indian Agriculturist**.60(1&2) : 39-44.
- Malakar,M., **Acharyya,P.** and Biswas,S.2016. Effect of different chemicals on the post harvest life of ornamental palms.**International Journal of Agriculture and Environmental Research**. 2(03): 487-497.
- Malakar,M., **Acharyya,P.** and Biswas,S.2016Effect of different chemicals on post harvest life of ornamental palms. **International Journal of Agriculture and Environmental Research**.2(3):486-498.
- Malakar,M., **Acharyya,P.** and Biswas,S.2015. Evaluation of *Heliconia* species based on agro-morphological traits. **International Journal of Agriculture, Environment and Biotechnology**.8(4): 957-964.(DOI No: 10.5958/2230-732x.2015.00109.6)
- Malakar,M., Biswas,S. and **Acharyya,P.** 2015. Evaluation of storage materials and pre-sowing treatments on the germination of some flowering annual seeds. **Indian Agriculturist**, V 58(3):pp.171-176.
- Malakar,M., **Acharyya,P.** and Bhargava,R. 2015. Xeriscaping in Arid climate. **Indian Journal of Arid Horticulture**. V10(1-2)pp:1-12.
- Debbarma,Puspa Laxmi., Saha,Uttam and **Acharyya,Pinaki**.2015. Response of chilli (*Capsicum annumL.*) to organic and inorganic mulches. **Indian Journal of Arid Horticulture**.
- Sahoo,B., Nedunchiziyam,M. and **Acharyya,P.** 2015. Growth and yield of elephant foot yam under integrated nutrient management (INM) in alfisols. **Journal of Root Crops** V41(1):59- 64.
- Sahoo,B., Nedunchiziyam,M. and **Acharyya,P.** 2015. Productivity potential of elephant foot yam (*Amorphophallus paeoniifolius* (Dennst.)Nicolson.)in alfisols as influenced by fertility levels. **The Bioscan** V10(3):1255-1257.
- Malakar,M., Biswas,S. and **Acharyya,P.** 2015. Diversity analysis of *Heliconia* species through the use of RAPD marker. **Indian Agriculturist**, V 58(4):pp: 211-214.

- S. Sengupta , B.Das , **P. Acharyya**, M. Prasad and T. Ghose .2014. Genetic diversity analysis in a set of *Caricaceae* accessions using resistance gene analogues. **BMC Genetics**,15:137(doi:10.1186/s12863-014-0137-).
- Sahoo,B., Nedunchezhiyan,M.and **Acharyya,P.**2014.Effects of Organic and Inorganic Fertilizers on Yield of Elephant Foot Yam and Soil Enzymes Activity. **Journal of Root Crops**, 40(2): 33- 39.
- .Sahoo, B., Nedunchezhiyan,M.and **Acharyya,P.**2014. Mineral nutrition of elephant foot yam cv. Gajendra as influenced by varied nutrient regimes under rainfed alfisols, **Indian Agric.** Vol. 58, No. 3 : 147-150.
- Sasmal.,M., Mondal.C.K., Garain, P.K. and **Acharyya, P.**2015. Evaluation of sweet potato (*Ipomoea batatus* (L.) Lam.) germplasm suitable for the coastal agroclimatic situation of Sundarbans, West Bengal. **International Journal of Applied and Pure Science and Agriculture**.V1(5): 49-57.
- L.Chakraborty.,**P.Acharyya** and S. Raychaudhuri. 2013.Diversity analysis of *Momordica charantia* L. accessions from eastern and north-eastern India based on morphological, yield related traits and molecular marker. **Proceedings of International symposium on Quality management of fruits and vegetables for Human health**. KMUTT, August 5-8,2013, Bangkok, Thailand. pp:179-193.
- S. Angmo., **P.Acharyya** and M.A. Hasan.2013. Performance of indigenous walnut selections under climatic conditions of Ladakh.2013. **Proceedings of the International symposium on Agri-foods for health and wealth**. KMUTT, August 5-8,2013, Bangkok, Thailand. pp:167- 176.
- Samik Sengupta, Basabdatta Das, Manoj Prasad, **Pinaki Acharyya** and Tapas Kumar Ghose.2013. A comparative survey of genetic diversity among a set of *Caricaceae* accessions using microsatellite markers. **Springer Plus**. <http://www.springerplus.com/content/2/1/345>.
- **P. Acharyya**, S. Biswas and S. Saha.2013. Studies on methods of dehydration of rose buds Gold Medal and Minu Parle. **Acta Horticulturae**. V970 :293-298.
- **P. Acharyya**, D.Mukherjee and S.Chakraborty.2013. Effects of flower preservatives on the vase life of Gerbera (*Gerbera jamesonii* H. Bolus) flowers. **Acta Horticulturae**. V970 :287 292 .

- **P.Acharyya**, Chandan Kr. Mondal, Uttam Saha and Himangshu Singh.2013. Diversity analysis of pepper accessions collected from North-Eastern India. **J.Botan.Soc.Bengal.**V 67(2): 89-98.
- Md. Wasim Siddiqui, Changrim M. Momin, **Pinaki Acharyya**, J. Kabir, Manoj Kanti Debnath and R.S. Dhua.2012. Dynamics of changes in bioactive molecules and antioxidant potential of *Capsicum chinense* Jacq.cv. Habanero at nine maturity stages. **Acta Physiologiae Plantarum.** DOI 10.1007/s11738-012-1152-2.
- Sankara Rao Karri and **Pinaki Acharyya**. 2012. Performance of okra(*Abelmoschus esculentus* (L.) Moench. cultivars under summer and rainy environments. **International J. of Advanced Life Sciences.**V2:17-26.
- Sankara Rao Karri and **Pinaki Acharyya**.2012. Analysis of Qualitative traits in okra[*Abelmoschus esculentus*(L.) Moench] grown under two environments. **J. of Plant Development Sciences.** V4(1):73-76.
- Chandan Kumar Mondal, Lakshman Chandra Patel and **Pinaki Acharyya**.2011. A study on socio-economic status and feasibility of growing vegetables under rain fed agro-ecosystem for nutritional and livelihood security in the coastal area of West Bengal. **J. of Interacademia.**V15(2): 314-323.
- M., Rahman, L., Chakraborty, and **P.Acharyya**.2011. Studies on Genetic Variability and Divergence in Sweet Gourd (*Momrdica subangulata* ssp.renigera [( G.Don) W.J.de Wilde]) Accessions collected from West Bengal. **Indian J. Plant Genet. Resources.**V:24(1):67-73.
- A.Paul, S. Bandyopadhyay, **P. Acharyya** and S.S. Raychaudhuri. 2010. Studies on genetic diversity of twelve accessions of *Momordica charantia* L. using morphological, RAPD and SCAR markers. **Asian J. of Plant Sciences.** V:9(8): 471-478.

b) **BOOKS/ BOOK CHAPTERS** : (2010 onwards)

**EDITED BOOKS**

1. Genetic Resource Improvement In Vegetable Crops.2021.ISBN: 9789390083411. New India Publishing Agency(NIPA), New Delhi-110034. Editors: Biswanath Sahoo and **Pinaki Acharyya**. PP: 166.
2. Site specific Nutrient management in elephant foot yam.2018.ISBN: 9789386546883. My Research Publications, New Delhi-110034.Editors: Biswanath Sahoo, Maniyam Nedunchezhiyan and **Pinaki Acharyya**.PP: 140.



3. Nutraceutical values of Horticultural Crops & Products.2017. ISBN: 9789385516979. New India Publishing Agency(NIPA), New Delhi-110034.Editors: Dhurendra Singh, P.N. Sivalingam, **Pinaki Acharyya** and S.R. Meena.PP: 247
4. Good Management Practices for Horticultural Crops. 2016. ISBN: 9789385516641. New India Publishing Agency(NIPA), New Delhi-110034.Editors: M.K. Jatav, **Pinaki Acharyya**, Hare Krishna, Dhurendra Singh, D.K. Samadia and B.D. Sharma.PP: 440.

### **BOOK CHAPTERS**

- Sahoo, Biswanath ., Kumari, Meenu., **Acharyya, Pinaki.**, Munshi, Rituparna and Sahu, Dibyabharati.2021.Biodiversity of vegetable crops. In Book: “Genetic Resource Improvement In Vegetable Crops.” New India Publishing Agency(NIPA),New Delhi-110034. Editors: Biswanath Sahoo and Pinaki Acharyya.
- Sahoo,Biswanath., **Acharyya, Pinaki.**, Munshi, Rituparna and Sahu, Dibyabharati.2021. *In-situ* conservation approaches for germplasm of vegetable Crops In Book: “Genetic Resource Improvement In Vegetable Crops.” New India Publishing Agency(NIPA),New Delhi- 110034. Editors: Biswanath Sahoo and Pinaki Acharyya.
- Malakar,M., **Acharyya,P.** and Biswas,S. 2019.“Standardization of dehydration techniques of some Ornamental foliages”. In book Sustainable Horticulture,Vol:II. Publisher: Apple Academic Press, Inc. January,2019.Editors: D.Mandal, A.C. Shukla and M. Wassim Siddiqui.pp:139-150.
- Sivalingam,P.N., Gurjar,K., Singh, D. and **Acharyya,P.** Date palm -markers and marker-assisted selection. February 2017.In book: Biotechnology of Plantation Crops, Edition: 1st, Chapter: Date Palm, Publisher: Daya Publishing House® A Division of Astral International Pvt. Ltd. New Delhi – 110 002, Editors: Dr. Pallem Chowdappa, Dr. Anitha Karun, Dr. M.K. Rajesh, Dr. S.V. Ramesh, pp.261-272.
- **Acharyya,P.** and Singh,D. 2017. Lason. In : Minor Fruits: Nutraceutical Importance & Cultivation Part II,(Ed. Ghosh,S.N.) . Jaya Publishing House , Delhi-110095.pp:537-553.
- **Acharyya,P.** and Sivalingam,P.N. 2017.Babaco. In : Underutilized fruit crops : Importance and cultivation. Part-II (Ed. Ghosh,S.N. Singh,Akath and Thakur, Anirudh.) Jaya Publishing House , Delhi-110095 pp:65-80.
- Singh,D.,Sivalingam,P.N., Nair,M.G. and **Acharyya,P.** 2017.Bioactive compound profile of khejri. pp:137-144. In Nutraceutical values of Horticultural Crops &

Products.2017.New India Publishing Agency(NIPA),NewDelhi-110034.(Eds. Singh,D.,Sivalingam,P.N.,Acharyya,P. and Meena,S.R).

- Singh,D.,Sivalingam,P.N.,**Acharyya,P.**andMeena,S.R.2017.Cactus pear for nutraceutical and functional food. pp:145-156. In Nutraceutical values of Horticultural Crops & Products.2017.New India Publishing Agency(NIPA),NewDelhi-110034.(Eds. Singh,D.,Sivalingam,P.N.,Acharyya,P. and Meena,S.R).
- **Acharyya,P.** and Singh,R.S. 2017. Mangosteen In : Underutilized fruit crops : Importance and cultivation.Part-II (Ed. Ghosh,S.N. Singh,Akath and Thakur, Anirudh.) . Jaya Publishing House , Delhi-110095.pp: 797-822.
- **Acharyya,P.** and Saha,U.2016.Potato cultivation through T.P.S( True Potato Seed)- A Revolution.In: High Tech Vegetable Cultivation.(Ed. Prof. Ashim Chowdhury).University of Calcutta.pp: 115-120.
- Singh,D.,Sivalingam,P.N.,**Acharyya,P.** and Meena,S.R.2015. Nutraceuticals in horticultural plants. Published by : Society for Agriculture and Arid Ecology Research, Bikaner.
- Singh,D.,Sivalingam,P.N.,Nair,M.G.and **Acharyya,P.** 2015.Bioactive compound profile of khejri. pp:139-148.In:Nutraceuticals in horticultural plants.(Eds. Singh,D.,Sivalingam,P.N.,Acharyya,P. and Meena,S.R).Society for Agriculture and Arid Ecology Research, Bikaner .
- Singh,D.,Sivalingam,P.N.,**Acharyya,P.**andMeena,S.R.2015.Cactus pear for nutraceutical and functional food. pp:149-160. In: Nutraceuticals in horticultural plants.(Eds. Singh,D.,Sivalingam,P.N.,Acharyya,P. and Meena,S.R). Society for Agriculture and Arid Ecology Research, Bikaner.
- **Acharyya,P.** 2012. Chilli and Sweet Pepper. In Handbook of Vegetables. (Edited byKV Peter & Pranab Hazra) Studium Press LLC. Houston, TEXAS, USA. pp: 149-188.
- **Acharyya,P.**2010. *Pyrus communis* L.(Common pear) . In Dictionary of Horticulture (Edited by T.K. Bose, G.G. , G.G. Maity, D. Sanyal and M.K. Sadhu ), Vol-9. pp-5074-5083.

c) **CONFERENCE/ SEMINAR VOLUMES:**

- **Acharyya,P.** and Jatav,M.K.2016. Remote sensing and GIS application in watershed management. pp:176-183.In the book entitled" Good management practices for arid horticultural crops to combat current agrarian crisis".Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE & edited by M.K. Jatav, Hare Krishna, Pinaki Acharyya, D. Singh, B.D. Sharma and D.K. Samadia.
- Haldhar,S.M., Jat,G.C., **Acharyya,P.**, Samadia,D.K., Singh,D. and Meena,S.R.2016. Integrated pest management and optimal use of pesticides in arid fruit and vegetable crops.pp:35-42. In the book entitled" Good management practices for arid horticultural crops to combat current agrarian crisis".Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE & edited by M.K. Jatav, Hare Krishna, Pinaki Acharyya, D. Singh, B.D. Sharma and D.K. Samadia.
- Singh,P.P and **Acharyya,P.**2016. Effect of frost and cold temperature on arid horticultural crops. pp: 88-94. In the book entitled" Good management practices for arid horticultural crops to combat current agrarian crisis".Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE & edited by M.K. Jatav, Hare Krishna, Pinaki Acharyya, D. Singh, B.D. Sharma and D.K. Samadia.
- Jatav,M.K.,**Acharyya,P.**,Krishna,H.,Maheswari,S.K,Sharma,B.D.andMeena,S.R. 2016.Micro-irrigation in arid fruit and vegetable crops: Status and Prospects.pp:74-81. In the book entitled" Good management practices for arid horticultural crops to combat current agrarian crisis".Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE & edited by M.K. Jatav, Hare Krishna, Pinaki Acharyya, D. Singh, B.D. Sharma and D.K. Samadia.
- Singh,D. Krishna,H. and **Acharyya,P.**2016.Micropropagation in minor fruits.pp:272-292. In the book entitled" Exploitation of underutilized horticulture crops for sustainable production" Published by CHES, Godhra(ICAR CIAH), Vejalpur, Gujarat & edited by S.K. Singh, A.K. Singh and V. V. Apparao.
- Singh,D., Krishna,H., and **Acharyya,P.**2016.Mulberry germplasm resources and its greater economic utilization.pp:256-271.In the book entitled" Exploitation of underutilized horticulture crops for sustainable production" Published by CHES, Godhra(ICAR CIAH), Vejalpur, Gujarat & edited by S.K. Singh, A.K. Singh and V. V. Apparao.
- Singh,D.,Samadia,D.K.,**Acharyya,P.**and Haldhar,S.M.2016. Genetic diversity of mulberry and suitability for cultivation in arid ecology. In: Compendium of National seminar on "Agriculture Resource management for sustainability and eco-restoration.(March 11-13th,2016), Bikaner. pp:1-8.
- Singh,D.,Sivalingam,P.N. and **Acharyya,P.**2016. Hi Tech plant propagation- A tool to mitigate stresses. In: Compendium of National seminar on "Agriculture

Resource management for sustainability and eco-restoration.(March 11-13th,2016), Bikaner. pp:93-103.

- **Acharyya,P.**, Bhargava,R.. and Jatav,M.K.2014 . Hydroponics and Aeroponics- Relevance of these systems towards horticultural crop management.pp:159-176. In Advances in water management and fertigation in fruit and vegetable crops of hot arid region in India.Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE.
- Rajkumar. and **Acharyya,P.**2014.Irrigation systems and scheduling of irrigation in horticultural crops pp: 99-108.In Advances in water management and fertigation in fruit and vegetable crops of hot arid region in India.Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE.
- Jatav,M.K.,**Acharyya,P.**,Krishna,H.,Maheswari,S.K.,Sharma,B.D.andMeena,S.R. 2014.Micro-irrigation in arid fruit and vegetable crops: Status and Prospects.Pp:29-38. In Advances in water management and fertigation in fruit and vegetable crops of hot arid region in India.Published by ICAR-CENTRAL INST FOR ARID HORTICULTURE.

d) **OTHER PUBLICATIONS :**

**ABSTRACTS PUBLISHED (2014 Onward)**

- **Acharyya,P.**, Banerjee,A. and Mukherjee,D.2019. Impact of different types of organic mulches on growth, yield, soil dynamics and weed infestation in selected root crops. In Abstract Book of International Seminar on Agri-skills for convergence in Research, Industry and livelihood (ACRIL) organized by the Crop and Weed Science Society during Nov 28<sup>th</sup> to 1<sup>st</sup> Dec.2019 at BCKV, Kalyani, West Bengal.pp:64.
- Chakraborty,N., **Acharyya,P.** and Acharya,K.2019. Bacillus species from soil of West Bengal: a hope for management of egg plant wilt. In the Abstract book of 4<sup>th</sup> Regional Science and Technology Congress (Western Region) held at Burdwan University, West Bengal from 9<sup>th</sup> to 10<sup>th</sup> Dec,2019.pp: 13.
- Malakar,M.,Biswas,S.and **Acharyya,P.** 2019.Molecular characterization of ten *Heliconia* (Heliconiaceae) genotypes by means of RAPD markers. In Conference book of IX International Symposium on New Ornamental Crops, Session V-Propagation and Production., Guadalajara, Mexico from 30<sup>th</sup> September to 3<sup>rd</sup> October,2019.

- Malakar,M.,Biswas,S.and **Acharyya,P.** 2019.Discernment of pollen grain fertility and stigma receptivity plying hasty easy techniques of *Heliconia* species L. under optical microscope.In Conference book of IX International Symposium on New Ornamental Crops, Session IV- Genetic Resources and Biotechnology, Guadalajara, Mexico from 30<sup>th</sup> September to 3<sup>rd</sup> October,2019.
- Malakar,M.,Biswas,S.and **Acharyya,P.** 2019. Phenotypic characterization of *Heliconia* genotypes based on qualitative descriptors. In Abstract book of 6<sup>th</sup> India Biodiversity Meet,2019 – International Conference held at Indian Statistical Institute, Kolkata from 14<sup>th</sup> to 16<sup>th</sup> Feb,2019. pp: 74.
- Banerjee,A., Tripathi,S. and **Acharyya,P.** 2018. Feasibility studies on conversion of tannery sludge to vermicompost. In Abstract book of National Symposium on “ Role of resource management in Agriculture in the context of Food security, Nutrition and Economy”, at Institute of Agricultural Science, University of Calcutta from 15<sup>th</sup>-17<sup>th</sup> Dec,2018. pp:31.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2018.Consequences of divergent vase solutions on post harvest durability and quality of *Heliconia* inflorescences. In Abstract book of National Symposium on “Role of resource management in Agriculture in the context of Food security, Nutrition and Economy”, at Institute of Agricultural Science, University of Calcutta from 15<sup>th</sup>-17<sup>th</sup> Dec,2018. pp:123.
- Munshi,R., **Acharyya,P.** and Mishra,P. 2018. Screening of okra genotypes through morpho- physio qualitative evaluation towards varied salinity levels at field condition. In Abstract book of National Symposium on “Role of resource management in Agriculture in the context of Food security, Nutrition and Economy”, at Institute of Agricultural Science, University of Calcutta from 15<sup>th</sup>-17<sup>th</sup> Dec,2018. pp:130.
- Chakraborty,N., **Acharyya,P.** and Acharya,K. 2018. Management of *Fusarium* wilt of tomato using *Bacillus velezensis* Nc2, A broad spectrum antifungal bioagent.In Abstract book of International Symposium on Fungal Biology: Advances, Applications and Conservation held at MAC’S Agharkar Institute, Pune from 19<sup>th</sup> to 21<sup>st</sup> November,2018.pp:101.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2018,Genetic variability and correlation studies in *Heliconia* genotypes for yield and floral biology allied attributes. In Abstract book of International symposium on Biodiversity and Biobanking -Biodiverse 2018 held at IIT Guwahati from 27<sup>th</sup>-29<sup>th</sup> Jan,2018.pp: 214.

- Malakar,M.,Biswas,S.and **Acharyya,P.**2018.Vase life evaluation of cut foliages of selected *Heliconia* species and varieties. In Abstract book of National symposium on Recent advances in floriculture and urban horticulture in global perspective held from 4<sup>th</sup> to 5<sup>th</sup> Jan,2018 at BCKV, Kalyani.pp: 364-367.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2017.Rejoinder of Diverse Organic Growth Media on Agro-Morphological Attributes of Nine *Heliconia* Species and Varieties Under West-Bengal Condition.at 3<sup>rd</sup> International Conference on Bioresource & Stress management at Jaipur, Rajasthan held from 8-11<sup>th</sup> November,2017.
- Chakraborty,N., **Acharyya,P.** and Acharya,K. 2017. Antifungal activity of two rhizospheric bacteria isolated from West Bengal against phytopathogens.In In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security”. held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2017. The Effect of Using Acute Gamma Irradiation on Morphological Characteristics of *Heliconia rostrata* plants.In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security” held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.
- Sahoo,B., Nedunchiziyam,M. and **Acharyya,P.** 2017. Soil fertility management strategies in elephant foot yam cv, Gajendra under rainfed alfisols. In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security” held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.pp:125.
- Maitra,S., Munshi,R., Debbarma, A. and **Acharyya,P.** 2017. Screening of okra genotypes towards salinity tolerance. In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security” held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.pp:140.
- Chakraborty,L., Reang, S. and **Acharyya,P.**2017. Effect of plant growth regulators on earliness, sex expression and yield traits of cucumber cv. Chaitali. In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security” held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.pp:141.

- Munshi,R., Debbarma,A.,Maitra,S. and **Acharyya,P.**2017. Salt induced modulation and physio biochemical attributes in okra. In Abstract Book of National Symposium on “Towards climate Smart Agriculture-A Key to Livelihood Security” held at Institute of Agricultural Science in collaboration with, AlumniAssociation, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.pp:136.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2017.Effect of different media for dehydration of some ornamental flowers.In Abstract Book of International Symposium on Horticulture: Priorities & Emerging trends.(5<sup>th</sup>-8<sup>th</sup> Sept,2017), Bengaluru.S4035 IS3 pp: 105.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2017.Discernment of pollen grain fertility and stigma receptivity plying hasty-easy techniques of Heliconia species under optical microscope.In: Proccedings of the International conference on recent trends in Agriculture, Veterinary & Life sciences.Goa. 02-04 Feb,2017. pp:26.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2017.Evaluation of different treatments of silver nitrate and sucrose on the vase life of gerbera cut flowers. In: Proccedings of the International conference on recent trends in Agriculture, Veterinary & Life sciences.Goa. 02-04 Feb,2017. pp:27.
- Malakar,M., **Acharyya,P.**and Biswas,S. 2017. Effect of NAA and GA<sub>3</sub> on growth and flowering of marigold. (*Tagetes erecta* cv. “ African Giant” L. In Book of Abstracts of National Symposium on Agriculture and Food Production- Today and Tomorrow. 22<sup>nd</sup>-24<sup>th</sup> Feb,2017, Kolkata. pp:49. SIV- HRP1.
- Malakar,M., **Acharyya,P.**and Biswas,S. 2017. Influence of different holding solutions on post harvest life of some foliages. In Book of Abstracts of National Symposium on Agriculture and Food Production- Today and Tomorrow. 22<sup>nd</sup>-24<sup>th</sup> Feb,2017, Kolkata. pp:52. SIV- HRP4.
- Munshi,R., Chodhury, A., **Acharyya,P.** and Chattopadhyay,P.K. 2017. Studies on fruit quality of mandarin orange (*Citrus reticulata* Blanco) cv. Darjeeling in relation to tree age and spatial distribution with tree canopy. In Book of Abstracts of National Symposium on Agriculture and Food Production- Today and Tomorrow. 22<sup>nd</sup>-24<sup>th</sup> Feb,2017, Kolkata. pp:56. SIV- HRP8.
- Munshi,R., Sinha, A. and **Acharyya,P.** 2017. Influence of growth regulators in enhancing the yield of carrot (*Daucus carota*)cv. Nantes. . In Book of Abstracts of National Symposium on Agriculture and Food Production- Today and Tomorrow. 22<sup>nd</sup>-24<sup>th</sup> Feb,2017, Kolkata. pp:57. SIV- HRP9.

- Chakraborty,L., Dutta,D., Munsi,R. and **Acharyya,P.**2017. Differential response of growth regulators on earliness, sex expression and yield attributes of bitter gourd (*Momordica charantia* l.) cv. Super Meghna 3. In Book of Abstracts of National Symposium on Agriculture and Food Production- Today and Tomorrow. 22<sup>nd</sup>-24<sup>th</sup> Feb,2017, Kolkata. pp:58. SIV- HRP10.
- Malakar,M., **Acharyya,P.**and Biswas,S. 2017.Vertical gardening for enlivening the ambience.In Proceedings of International Symposium on Eco-Efficiency in Agriculture & Allied Research.BCKV, Kalyani.20-23<sup>rd</sup> Jan,2017.pp: 672-673.INS-T5-176-P-6.
- Malakar,M., **Acharyya,P.**and Biswas,S. 2017.An approach to color preservation of some dehydrated flowers and foliage.In Proceedings of International Symposium on Eco-Efficiency in Agriculture & Allied Research.BCKV, Kalyani.20-23<sup>rd</sup> Jan,2017.pp: 670-671.INS-T5-175-P-5.
- Mondal,C.K.,**Acharyya,P.** and Hazra,P.2017.Genetic variability, correlation and path coefficient studies in chilli (*Capsicum annum* L.). In Proceedings of International Symposium on Eco-Efficiency in Agriculture & Allied Research.BCKV, Kalyani.20-23<sup>rd</sup> Jan,2017.pp: 210-211.INS-T1-439-P-33.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2016. Effect of certain chemicals on the post harvest life of some cut foliages.In Abstract book of National Symposium on Recent trends in Agriculture and Allied Sciences for better tomorrow held at Visvabharati, Santineketan on 4<sup>th</sup> Dec,2016.pp: 65.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2016. Effect of different chemicals on the post harvest life of three ornamental palms.In:Book of Abstracts of International Symposium on sustainable Horticulture, Mizoram University, Aizawl, 14-16<sup>th</sup> March,2016.Code T5-AB13.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2016. Standardization of dehydration techniques of some ornamental foliages.In:Book of Abstracts of International Symposium on sustainable Horticulture, Mizoram University, Aizawl, 14-16<sup>th</sup> March,2016.Code T5-AB10.
- Malakar,M.,Biswas,S.and **Acharyya,P.**2016. Micropropagation of foliage ornamental plants for commercial importance. In : Book of Abstracts of National seminar on Plant genomics and biotechnology- Challenges and Opportunities in 21st century,23-24th January,2016. at Orissa University of Agriculture and Technology.
- **Acharyya,P.**,Bhargwa,R.,Sivalingam,P.N. and Sharma,S.K.2016. Differential response of cucurbitaceous species to osmopriming.In Book of abstracts of the 25th National conference on " National Resource management in arid and semi-arid ecosystem for climate resilient agriculture and rural development" 17-19th February,2016, SKRAU, Bikaner, Rajasthan. pp:265.



- Malakar,M., **Acharyya,P.**, Biswas,S.and Gahlot,A.2016.Environment friendly natural turf for more comfort for users- A review. In: Book of Abstracts of National seminar on "Agriculture Resource management for sustainability and eco-restoration.(March 11-13<sup>th</sup>,2016), Bikaner. pp:205.
- **Acharyya,P.**,Bhargwa,R.,Sivalingam,P.N.,Gahlot,A.and Sharma,S.K. 2016. Isozyme patterns of osmoprimered cucurbitaceous seeds in response to drought stress..In the National conference of Plant Physiology , 3-5th March,2016, Banaras Hindu University, Varanasi, India.pp:87.
- Singh,P.P., **Acharyya,P.** and Singh,D. 2016. Genetic variability studies for improvement in Brinjal under hot arid agro climate.In the abstract book on Global conference on Perspective of Future Challenges and Options in Agriculture held on 28<sup>th</sup> to 31<sup>st</sup> May,2016 at Jalgaon and organized by ASM Foundation and Jain Irrigation Systems Ltd.pp:34-35.
- Singh,P.P., **Acharyya,P.** and Singh,D. 2016.Multivariate analysis of brinjal genotypes evaluated under hot arid climate.In the abstract book on Global conference on Perspective of Future Challenges and Options in Agriculture held on 28<sup>th</sup> to 31<sup>st</sup> May,2016 at Jalgaon and organized by ASM Foundation and Jain Irrigation Systems Ltd.pp:34-35
- **Acharyya,P.**,Singh,D.,Jatav,M.K. and Sivalingam,P.2015. Vertical vegetable growing system - An alternative approach to sustain nutritional security among masses of arid region.In International conference on vertical farming (2nd and 3rd November,2015), Bengaluru and organized by Vertical farming association(India), Mumbai., Association for vertical farming, Munich, Germany and Society for promotion of Horticulture, India. pp: 9.
- **Acharyya,P.** and Sharma,S.K.2015. Plant genetic resource management under emerging climate change in "National seminar on Current trends in environmental research" organized by Dept. of Environmental Science, Maharaja Ganga Singh University, Bikaner during 28th February till 28th March,2015.pp:45-46.
- Malakar,M., Biswas,S. and **Acharyya,P.** 2014. Diversity analysis of *Heliconia* species through the use of RAPD markers. in " National seminar on Integrated Approaches in Horticulture for sustainable development" organized by Palli Siksha Bhavana, Visva Bharati, Sriniketan and Uttar Banga Krishi Viswavidyalaya during 29-30th November,2014.pp: 9

#### **TECHNICAL / POPULAR ARTICLES (2012 onwards)**

- a. Chakraborty,I., Marak, D.S.,Chattopadhyay,A. and **Acharyya,P.** 2017. Food and Nutritional Security- Role of Horticulture in West Bengal. In souvenier of National Symposium –Towards Climate Smart Agriculture- A key to livelihood security held from

9<sup>th</sup> Dec to 11<sup>th</sup> Dec,2017 and organized by the Institute of Agricultural Science and its Alumni Association, University of Calcutta.pp:42-45.

- b. **Acharyya,P.** and Das,A. April 2017. Horticulture in india : consumption at household level. Kurukshetra. Pp: 35-38.
- c. Singh,D.,Meena,S.R., **Acharyya,P.** and Sivalingam,P.N. 2015. New innovations and opportunities of cactus pear and *Aloe vera* for culinary uses. ICAR CIAH Newsletter. Jan-June,2015. pp:3-4.
- d. Kumar Ramesh., Singh,R.S.,Meena,S.R. and **Acharyya,P.**2015. Standardization of technologies for dehydration and value addition of karonda. ICAR CIAH Newsletter. July- December,2015.pp:2.
- e. **Acharyya,P.**, Singh, D,Jatav, M.K. and Meena,S.R. 2015. New concept of vertical vegetable farming in hot arid region. ICAR CIAH Newsletter. July-December,2015.pp:3.
- f. Jatav, M.K., Meena,S.R.,**Acharyya,P.**,Gora, J.S. and Pareek,P.P Sush Khetra mei sabjio mei poshak tatya ki kami ebong unki poorti ke upay2014.. pp: 57-62.,(In Hindi). In Sushk bagbani phasolo utpadan ki naveen taknique. Edited by S.R. Meena, B.D. Sharma, M.K. Jatav, S.M. Halder and D. Singh.
- g. **Acharyya , Pinaki** and Singh, Himanshu .2012.Biopreservatives and their importance in Food Preservation. Food, Marketing and Technology.V3(4): 16-18.

#### 10. **MEMBERSHIP OF LEARNED SOCIETIES:**

- ❖ Life member - Indian Society of Vegetable Science, IIVR, Varanasi.
- ❖ Life member - Indian Society of Plant Genetic Resources, NBPGR, New Delhi.
- ❖ Life member - The Horticultural Society of India, IARI, New Delhi.
- ❖ Life member - The Society for the Development of Horticulture, Bidhan Chandra Krishi Viswa Vidyalaya, West Bengal.
- ❖ Life member - Indian Association of Hill Farming, Umiam, Meghalaya
- ❖ Life member - The Indian Science Congress Association.
- ❖ Life member - Indian Society for Arid Horticulture.
- ❖ Life Member – Indian Society of Alliums.
- ❖ Member - Indian Agriculture Professionals Network.
- ❖ Member - DSSAT open forum
- ❖ Member, Scientific and Technical Committee & Editorial Review Board on Medical and Biological Sciences, World Academy of Science, Engineering and Technology, USA.
- ❖ Member of Scientific Technical Committee and Editorial Board on Chemical, Biological, Medical & Environmental Sciences, International Scientific Academy of Engineering & Technology (ISAET).
- ❖ Member and reviewer of *Notulae Botanicae Horti Agrobotanici* –Napoca.
- ❖ Member and reviewer of International Journal of Agriculture Sciences.
- ❖ Member and reviewer of Advances in Crop Science and Technology.
- ❖ Member and reviewer of Journal of Tropical Agriculture.
- ❖ Member and reviewer of Agricultural Science- An International journal.

- ❖ Member and reviewer of Issues in Biological sciences and pharmaceutical Research.
- ❖ Reviewer of “ National Academy of Science Letters”.

#### 11. **INVITED LECTURES DELIVERED (2014 ONWARDS)**

- Invited as a speaker by Hiralal Mazumdar Memorial College for women, Dakshineswar in the webinar organized by IQAC & Dept. of Botany, held on 22<sup>nd</sup> August,2020. Delivered a lecture on “ **Urban Forests and Human Wellbeing**”.
- Delivered a talk on “ **Harnessing weeds for medicinal values**” at the National Conference on Biotechnology & Agriculture Based Technological Interventions Towards Sustainable Rural Development, organized by Department of Biotechnology, Brainware University from 14<sup>th</sup> to 15<sup>th</sup> March,2020 at Barasat, Kolkata.
- Invited as a chairman to address the session on Policies and Practices in Agriculture in the conference on “Down to Earth: An Interdisciplinary conference on Agri-Innovation and Entrepreneurship ” organized by the Department of Business Management, University of Calcutta in association with EDI-India and UK India Educational research institute on 21<sup>st</sup> Jan,2019.
- Invited as a speaker to address the workshop on “ Manufacturer to Entrepreneur: feeding the Billions” organized by the Department of Business Management, University of Calcutta in association with EDI-India and UK India Educational research institute . Delivered a lecture on the topic “**UNRAVELING AGRICULTURAL Entrepreneurship - Indian Context** “ on 5<sup>th</sup> September,2018.
- Served as a panellist in the plenary session of the National Symposium on “**Role of Resource management in Agriculture in the context of Food security, Nutrition and Economy**” held from 15-17<sup>th</sup> December,2018 at Institute of Agricultural Science,University of Calcutta.
- Served as a panellist in the Regional seminar on “ **Scope of Horticultural development in West Bengal with special reference to Paschimanchal**” and presented a deliberation on “**Horticultural Crops for Semi Arid region**” on Nov 4<sup>th</sup>,2017 at The Agri-Horticultural Society of India, Alipore, Kolkata.
- Delivered an invited lecture on “**Waste Management of Horticultural Produce**” at the South Asian Regional Workshop on Agricultural Waste Management Practice to Policy held at Birla Industrial and Technological Museum from 29<sup>th</sup> to 30<sup>th</sup> April,2017 and organized by South Asian Forum for Environment (SAFE) and Asia Pacific Network, Global Change Research.
- **Hydroponics and Aeroponics - Relevance of these systems towards horticultural crop management.** In Short course on " Advances in water management and fertigation in fruit and

vegetable crops of hot arid region in India." held at ICAR-CIAH during 22nd September,2014 to 1st October,2014.

- Delivered a talk on "**Closed soilless growing systems**" on 22nd December,2015 in the National Workshop on " Sustainable ground water development and management" organized by Department of Geology and Geo-Ventures, Govt. Dungar College, Bikaner.
- Delivered a talk on "**Vertical Farming**" on 6<sup>th</sup> April,2016 in the Zonal Workshop of Agriculture Research Station at SKRAU, Bikaner, Rajasthan.

## 12. **AWARDS / RECOGNITIONS :**

1. JRF & SRF (ICAR).
2. Nominated as an "Editor" for the online journal " Open Agriculture" for Tropical Agriculture and Horticulture sections brought out by De Gruyter Open, Warsaw, Poland in September, 2015.
3. Appointed as Associate Editor (Agriculture, Veterinary Sciences, Forestry, Food Sciences) as Book Author of De Gruyter, Warsaw, Poland in September 2015.
4. Appointed as "Editor -In -Chief" of the journal " Journal of Agriculture and Ecology"(Online) brought forth by Society for Agriculture and Arid Ecology Research, Bikaner.
5. Appointed as Member of the Executive Council of the Agricultural Society of India for 2018-2020.
6. Served as the Chairman of Technical session" Post Harvest Technology, Nutrition and Value Addition" in the National symposium On "Role of Resource management in Agriculture in the context of Food security, Nutrition and Economy" held from 15-17<sup>th</sup> December,2018 at Institute of Agricultural Science, University of Calcutta.
7. Served as Organizing Secretary of the National Symposium on "Towards climate Smart Agriculture-A Key to Livelihood Security". held at Institute of Agricultural Science in collaboration with, Alumni Association, Institute of Agricultural Science, 9<sup>th</sup>-11<sup>th</sup> Dec,2017.
8. Served as Co-Organizing Secretary, in the National Seminar on "Agriculture Resource Management for sustainability and Eco restoration" held at ICAR CIAH, Bikaner from 11<sup>th</sup> to 13<sup>th</sup> March,2016 and organized by the Society for Agriculture and Arid Ecology Research.

## 13. **OTHER NOTABLE ACTIVITIES :**

**Papers Presented in International Conferences, Seminars, Workshops, Symposia**

- Diversity analysis in sweet gourd(*Momordica subangulata* ssp. *renigera*[(G.Don)W.J. de Wilde]) accessions collected from eastern India”. Regional symposium on “ High value Vegetables in Southeast Asia: Production, Supply and Demand(SEAVEG 2012),Chiangmai, 24<sup>th</sup>-26<sup>th</sup> Jan,2012. Organized by AVRDC, ASEAN-AVRDC Network, HSST, VEGINET, Thailand dept. of Horticulture.
- Marketing of major fruits in Kolkata, India with special emphasis on mango- A case study. Southeast Asia Symposium on Quality management in Postharvest Systems(Feb 21-24,2012)at Bangkok, Thailand. Organized by KMUTT, Thailand, Postharvest Technology Innovation Center and ISHS.
- Effects of flower preservatives on the vase life of Gerbera(*Gerbera jamesonii* H. Bolus) flowers. International conference on “Quality management in supply chains of Ornamentals”(Feb-21st-24<sup>th</sup>,2012), Bangkok, Thailand. Organized by KMUTT, Thailand, Postharvest Technology Innovation Center and ISHS.
- Studies on methods of dehydration of rose buds Gold Medal and Minu Parle. International conference on “Quality management in supply chains of Ornamentals”(Feb-21st-24<sup>th</sup>,2012), Bangkok, Thailand. Organized by KMUTT, Thailand, Postharvest Technology Innovation Center and ISHS.
- Country report on Sub tropical fruit crops of India. The 7<sup>th</sup> International training workshop on Quality and Efficient cultivation of subtropical fruits October 15<sup>th</sup> to October 28<sup>th</sup>, 2011.Organized by Baise Modern Agricultural Technology Research and Promotion Center,Guangxi P.R. of China.
- Breeding of Vegetable crops in India- It’s present status. International training workshop on Breeding tech. of Horticultural Crops, Beijing, PR of China, Sept 8-22,2008. Organized by Inst. Of Vegetables & Flowers, Chinese Academy of Agri. Science, PR of China.
- Evaluation of tomato cultivars for juice preparation. 3<sup>rd</sup> International Food Convention held at CFTRI, Mysore.7<sup>th</sup>-12<sup>th</sup> Sept,1993. CFTRI, Mysore.

#### **14. REGISTRATION OF GENE/ MARKER SEQUENCES IN GENE BANK, NCBI, USA**

- Genetic diversity analysis of papaya using DNA markers (Year 2010-2012) 110 marker sequences were registered.
- Genetic diversity analysis of *Citrus* sp. using DNA markers (Year 2010-2011) 11 marker sequences were registered.

#### **15. PROGRAMMES ORGANIZED (2010 onwards)**

- ❖ In the capacity of **Organizing Secretary**,National Symposium on “ Towards climate smart Agriculture-A key to livelihood security” held at Institute of Agricultural Science, University of Calcutta. from 9<sup>th</sup>-11<sup>th</sup> Dec,2017.

- ❖ In the capacity of **Course-coordinator**, ICAR sponsored 10 days training programme on “**Good management practices for Arid horticultural crops to combat current Agrarian Crisis in arid region**” held at ICAR CIAH, Bikaner from 25th Feb to 5th March,2016.
- ❖ The **4<sup>th</sup> International Conference on Landscape and Urban Horticulture**. 12-14<sup>th</sup> Sept,2013, Kolkata. Impact of Landscape Horticulture on development of Urban economy with green environment. Organized by International Society for Horticultural Science ,Society for Advancement of Horticulture and Bidhan Chandra Krishi Viswavidyalaya. **As Organizer**.
- ❖ Delivered a lecture on “ High Tech horticulture –It’s role in 2<sup>nd</sup> Green Revolution” at Kalyan Krishi Vigyan Kendra, Purulia in celebration of Technology Week: 2012-13 on 11<sup>th</sup> January,2013.
- ❖ National symposium on “Approaches to maximizing crop productivity. Horticultural produce and it’s nutritional impact. 12-14th Jan,2012, Kolkata. Organized by The Agricultural society of India , Institute of Agricultural Science , University of Calcutta & The Alumni Association of the Institute of Agricultural Science. **Member, Scientific committee**.
- ❖ Seminar on “Recent developments of fruit & vegetable culture in West Bengal and export potential thereof”. A glimpse of the fruits and vegetables of S.E. Asia. 12<sup>th</sup> Nov,2011, The Agri Horticultural Garden, Kolkata. Organized by Agri-horti Soc. of India, Dept. of Food processing Industries & Horticulture, Govt. of West Bengal, APEDA and NHB. **As Joint Convenor & Speaker**.
- ❖ Skill up-gradation programme for cold storage operations(SUPCO). Post harvest management of horticultural crops. 7<sup>th</sup> & 10<sup>th</sup> August,2011.Organized by Global Cold Chain Alliance and sponsored by National Horticulture Board. **As Resource person**.

### **Linkages established - International**

- ❖ 1. International science and technology cooperation agreement made between the Dept. of Horticulture, Institute of Agricultural Science, University of Calcutta and management committee of Baise National Agricultural Science and Technology zone of Guangxi, P.R. CHINA for 5 years(2011-2016).
- ❖ 2. Cooperative agreement between King Mongkut’s University of Technology, Thonburi (KMUTT) Bangkok, Thailand and University of Calcutta.

## **16. TRAININGS UNDERTAKEN**

1. Attended the winter school on " Advances in Improvement of Vegetable crops using biotechnological approaches" at Division of Vegetable Science, ICAR Indian Agricultural Research Institute, New Delhi from 18th September- 8th October,2015.
2. Winter school on " Bioinformatics and its emerging dimensions in Agriculture" at Bioinformatics Center, Kerala Agricultural university, Thrissur from 12<sup>th</sup> Jan,2015 to 1<sup>st</sup> Feb,2015.
3. Refresher course on Agricultural Research Management from July 14<sup>th</sup> to 26<sup>th</sup>,2014 at National Academy of Agricultural Research Management, Hyderabad.
4. 7<sup>th</sup> International training workshop on Quality and Efficient cultivation of subtropical fruits from October 15<sup>th</sup> to October 28<sup>th</sup>, 2011 at Baise Modern Agricultural Technology Research and Promotion Center, P.R. of China.
5. UGC sponsored Refresher course on " Advances of Biotechnology in Food and Fermentation" offered by the Dept. of Food Technology and Biochemical Engineering, Jadavpur University, West Bengal from 1.7.2011 to 21.07.2011.
6. UGC sponsored Refresher course on Environmental studies from Feb10<sup>th</sup> to March 3<sup>rd</sup>, 2011 organized by the Academic Staff College, University of Calcutta.
7. International Training workshop on "Breeding Technology of Horticultural Crops" at the Institute of Vegetables & Flower, Chinese Academy of Agricultural Sciences from 8<sup>th</sup> to 22<sup>nd</sup> Sept,2008 at Beijing China.
8. ICAR sponsored short course on " Advance technology for production of export oriented tropical and sub-tropical fruits" from 1<sup>st</sup>-10<sup>th</sup> August,2005 organized by Dept. of Fruit & Orchard Management, Faculty of Horticulture, Bidhan Chandra Krishi Viswavidyalay, Mohanpur.
9. Third refresher course in Agricultural Science-,Jan 27- Feb 16,,2004. Academic staff college, Banaras Hindu University.

*Pinaki Acharyya*  
*Signature of the faculty member*