

Faculty Publications

Department of Horticulture

Dr. Dipika Sarmah

Full length paper:

1. Effect of mulching on growth and flowering of gerbera (*Gerbera jamesonii* Bolus) cv. Red Gem under Assam condition. **Research on Crops**, 15 (1):211-214 (2014). **DipikaSarmah**, PradipMahanta, Madhumita C. Talukdar&Ranjan Das.
2. Physiological and biochemical changes of gerbera (*Gerbera jamesonii*Blous) cv. Red Gem affected by different mulching treatments. **Environment and Ecology** , 33(1B): 458-461(2015); **DipikaSarmah**, PradipMahanta, Madhumita C. Talukdar&Ranjan Das.
3. Evaluation of gerbera varieties for growth and flowering under poly house in the plains of West Bengal. **International journal of Scientific Research**, 3(12): 135-136 (2014); **DipikaSarmah**, SwathiKolukunde and Tapas Mandal.
4. Effect of time of planting and spacing on growth and flowering of gerbera (*Gerbera jamesonii* Bolus) cv. Red Gem under Jorhat condition, Assam. **Environment and Ecology** 31(A): 1702-1704 (2014); SwathiKolukunde, **DipikaSarmah**, Ayandip Biswas & Tapas Mandal.
5. Effect of micronutrients on growth and flowering of gerbera (*Gerbera jamesonii* Bolus) cv. Rosaline under poly house in the plains of West Bengal. **Environment and Ecology (E-copy)**,33(3):1143-1146(2015); Sarmistha Rani Baruah, PradipMahanta, Madhumita C. Talukdar&**DipikaSarmah**.
6. Effect of different doses of gamma rays on survivability and rooting ability in chrysanthemum (*Chrysanthemum morifolium* Ramat.) **Journal Crop and Weed**, 11(1):62-65(2015); R. Sadhukhan, K. Swathi, **D. Sarmah** and T. Mandal.

Abstracts, extended summary and short communications published in national and international seminars and symposiums:

- 1) Evaluation of gerbera varieties for growth and flowering under polyhouse in the plains of West Bengal. **DipikaSarmah**,SwathiKolukunde and Tapas Mandal. **National seminar**

on protected cultivation of horticultural crops and value addition. November 29-30, 2013, Allahabad.

- 2) Physiological and biochemical changes of gerbera (*Gerbera jamesonii* Bolus) cv.Red Gem affected by different mulching materials. **DipikaSarmah,PradipMahanta, Madhumita C. Talukdar and Ranjan Das. 2ndInternational Conference on Agricultural and Horticultural Sciences.** February 03-05, 2014, Hyderabad.
- 3) Tissue culture: A potential alternative for conservation of medicinal orchids. **DipikaSarmah, SwathiKolukunde, KhumukchamJoshna and Tapas Mandal. National Symposium on sustainable Agriculture for food and nutritional security in East and North East India: Prospect and future.** March 01, 2014, University of Calcutta, WB.
- 4) Response of gerbera (*Gerbera jamesonii* Bolus) cv. Red Gem to mulching. **DipikaSarmah,PradipMahanta, Madhumita C. Talukdar and Ranjan Das. International Congress on Agriculture, Food Engineering and Environmental Sciences- Sustainable Approaches.** March 29-30, 2014, JNU, New Delhi.
- 5) Performance of gerbera (*Gerbera jamesonii* Bolus) cv. Red Gem under different mulching materials. **DipikaSarmah, KhumukchamJoshna, SwathiKolukunde, PradipMahanta and Madhumita C. Talukdar. International Conference on Horticulture for nutritional and environmental security in hills: opportunity and challenges.** May 22-24, 2014, Kalimpong, Darjeeling.
- 6) In search of suitable strength of Murashige and Skoog (MS) basal medium for *in vitro* multiplication of *Phalaenopsis*.**DipikaSarmah, SwathiKolukunde, Tapas Mandal and Nirmal Mandal. National Conference on environmental issues and food security in India.** August 10, 2014, Kolkata.
- 7) Influence of plant growth hormones on in vitro clonal propagation of *Phalaenopsis* .**DipikaSarmah, S. Kolukunde, B.K. Singh, T. Mandal and N. Mandal. National Seminar on Horticultural diversity for prosperity.** 10-12 Feb, 2016, O.U.A.T, Bhubaneswar.

Dr.Ranjit Pal

Papers published in National/International Journal: (5)

1. Bhowmick, N., **Pal, Ranjit K.**, Suresh, C.P., Paul, P.K., and Ghosh S.K. (2009). Status and Prospects of Litchi Cultivation in Cooch Behar District of West Bengal. *Environment and Ecology*. 27(2A): 771-776. (NAAS rating 4.09).
2. Bhowmick, N., Suresh, C.P., Paul, P.K. & **Pal, R. K.** (2011). Effect of Ethrel on fruiting characteristics of pineapple under Cooch Behar district of West Bengal. *Journal of Crop and Weed*. 7(2): 210-210. (NAAS rating 3.59).
3. **Pal, Ranjit**, and Ghosh, S. N. (2011). Kendu: an underutilized and lesser known fruit of West Bengal. *Proceedings of the International Symposium on Minor Fruits and Medicinal Plants for Health and Ecological Security*. pp 103-104.
4. Roy, D., Kundu, S, Ghosh, B., Dutta, P. and **Pal, R.** (2014). Performance of pummel germplasm in new alluvial zone of West Bengal. *Journal of Crop and Weed*. 10(2): 179-182. (NAAS rating 3.59).
5. **Pal, R.**, Mahato, S. K., Chhetri, Binoy. and Suresh, C. P. (2015). Growth regulators influencing yield and quality of pineapple [*Ananas comosus* (L) Merr]. *Ecology, Environment and Conservation*. 21(2) 885-890. (NAAS rating 5.02).

Papers published in Bengali Journal: (3)

1. **Pal, Ranjit** (2008). “Paschim Babga Khara Prabhan Alakai Falchaser Samvabona” (Prospect of fruit cultivation in drought prone areas in West Bengal). *Sobuj Sona*. Pp 78-81.
2. **Pal, Ranjit** (2010). “Faler Bagan porikolpona o Poricharcha” (Orchard management). *Sobuj Sona*. Pp 73-75.
3. **Pal, Ranjit** (2011). “Paschim Bange Angurchasar Somvabona” (Prospect of grape cultivation in West Bengal). *Sobuj Sona*. Pp 80-84.

Book chapters published: (2)

1. **Pal, Ranjit.**, Roy, D., Das, S., and Deb, P. (2014). Mahua: an underutilized and potential wild fruit in India, *Edited by* P. S. Munsu, S.K. Ghosh, N. Bhowmick and P, Deb (2014). ISBN: 978-93-81274-85-9.
2. **Pal, Ranjit**, and Ghosh, S.N. (2014). Comparative Performance of Some Grapes Cultivars under West Bengal Conditions, *Edited by* P. S. Munsu, S.K. Ghosh, N. Bhowmick and P, Deb (2014). ISBN: 978-93-81274-85-9.

List of papers abstracted in different seminar/symposium: (26)

1. **Pal, Ranjit.**, Deb, P. and Ghosh, S.N. (2015). Performance of some Grape Cultivars for Commercial Cultivation in West Bengal. 2nd International Conference on “Bio-resource and Stress Management” during 7th to 10th January, 2015 at PJTSAU, Rajendranagar, Hyderabad, India.
2. **Pal, Ranjit.**, Roy, D., Das, S., Deb, P. and Ghosh, S.N. (2015). Influence of Different Micronutrients on Growth, Yield and Quality Parameters in Grape (*Vitis vinifera L.*). 2nd International Conference on “Bio-resource and Stress Management” during 7th to 10th January, 2015 at PJTSAU, Rajendranagar, Hyderabad, India.
3. **Pal, Ranjit.**, and Ghosh, S.N. (2014). Comparative Performance of Some Grapes Cultivars under West Bengal Conditions. National Seminar on “Integrated Approaches in Horticulture for Sustainable Development” during 29th -30th November, 2014, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
4. **Pal, Ranjit.**, Roy, D., Das, S., and Deb, P. (2014). Mahua: an underutilized and potential wild fruit in India, . National Seminar on “Integrated Approaches in Horticulture for Sustainable Development” during 29th -30th November, 2014, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
5. Roy, D., Kundu, S, Ghosh, B., Dutta, P. and **Pal, R.** (2014). Performance of pummel germplasm in new alluvial zone of West Bengal. “International Seminar on Integrating Agriculture And Allied Research: Prioritizing Feature Potentials For Secure Livelihoods” during 6th -9th November, 2014, held at FTC (Lake Hall), , Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, (W.B) India.
6. Suresh, C.P., Deb, P., **Pal, R.** and Roy, A. (2014). Effect of NAA and Ethrel on yield and quality of pineapple (cv. Kew). . “International Seminar on Integrating Agriculture And Allied Research: Prioritizing Feature Potentials For Secure Livelihoods” during 6th -9th November, 2014, held at FTC (Lake Hall), , Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, (W.B) India.
7. **Pal, Ranjit.**, Roy, D., Biswas, M.R., Das, S., Dutta, A., Pati, S., Panda, R., Roy, D., Paramanik, B., and Deb, P. (2014). Improving pineapple production through crop regulation in hill and tarai region of West Bengal. International Conference on “Horticulture for Nutritional Livelihood and Environmental Security in Hills: Opportunity and Challenges” during 22nd -24th May 2014, at Uttar Banga Krishi Viswavidyalaya (Hill Campus), Kalimpong, Darjeeling, West Bengal, India.

8. Roy, D., Pari, Arnab., Bandyopadhyay, A, K., **Pal, Ranjit** and Lepcha, Jason. (2014). Study on the Adoption Behaviour of Anthurium Flower (*Anthurium andreanum*) Cultivation in Some Selected Areas of Darjeeling District of West Bengal. International Conference on “Horticulture for Nutritional Livelihood and Environmental Security in Hills: Opportunity and Challenges” during 22nd -24th May 2014, at Uttar Banga Krishi Viswavidyalaya (Hill Campus), Kalimpong, Darjeeling, West Bengal, India.
9. **Pal, Ranjit** and Ghosh. S.N. (2014). Effect of time of pruning on fruit production and berry quality of grapes (*Vitis vinifera*) under Bankura condition of West Bengal. National Conference on “Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood” during 5th to 7th March 2014, at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India.
10. **Pal, Ranjit.**, Reang, E., L. Mantosh., Deb, P and Ghosh, S.N. (2014). Prospect of commercial cultivation of pomegranate in western part of West Bengal. National Conference on “Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood” during 5th to 7th March 2014, at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India.
11. Roy, D., **Pal, Ranjit** and Kundu, S. (2014).The pummel: an underutilized citrus fruit in West Bengal. National Conference on “Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood” during 5th to 7th March 2014, at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India.
12. **Pal, Ranjit.**, Ghosh, S.N. and Biswas, M.R. (2014).Underutilized fruits: an option for sustainable livelihood and income security. National Conference on “Adaptation and Mitigation Strategies of Climate Change for Sustainable Livelihood” during 5th to 7th March 2014, at Uttar Banga Krishi Viswavidyalaya, Pundibari, Cooch Behar, West Bengal, India.
13. **Pal, Ranjit.** & Ghosh, S.N. (2014). Fruiting Potential and Quality of Arka Neelamani Grape as Influenced by Intensity of Pruning. National Seminar on Agriculture and Bio-security in Changing Scenario, 1st – 3rd February, 2014, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
14. **Pal, Ranjit.** Ghosh, S.N. & Deb, P. (2012). Studies on Pruning Intensity of Grape (*Vitis vinifera*) cv. Atka Trishna. Third National Symposium on “ Agriculture Production and Protection in Context of Climate Change” from 3rd to 5th November, 2012, held at Birsa Agricultural University, Ranchi, Jharkhand, India.

15. Ghosh, S.N. & **Pal, Ranjit**. (2012). Integrated Nutrient management in Sweet Orange Under Rainfed condition for Better Fruit Production, Plant and Soil Health. Third National Symposium on “ Agriculture Production and Protection in Context of Climate Change” from 3rd to 5th November, 2012, held at Birsa Agricultural University, Ranchi, Jharkhand, India.
16. Ghosh, S.N., Bera, B, Roy. S. & **Pal, Ranjit**. (2012). Canopy Management in Sweet Orange (*Citrus Sinensis*) – A New Approach for quality Crop Production in Perspective of climate Change. Third National Symposium on “ Agriculture Production and Protection in Context of Climate Change” from 3rd to 5th November, 2012, held at Birsa Agricultural University, Ranchi, Jharkhand, India.
17. **Pal, Ranjit**. & Ghosh, S.N. (2012). Effect of Pruning Intensity on Fruiting Behavior, Yield and Quality of Grapes in West Bengal. National Seminar on “Horticulture for Livelihood Security, Economic Prosperity and Sustainable Development” from 24th to 26th September, 2012, held at Mizoram University, Aizawl, Mizoram, India.
18. **Pal, Ranjit**, Ghosh, S.N & Suresh C.P. (2012). Influence of Micronutrients on Yield and Quality of Grapes (*Vitis vinifera*) cv. Pusa Navrang in west Bengal. Golden jubilee Seminar on “Advances in Agricultural Research Towards Food Security and Environmental Sustenance” from 1st to 3rd September, 2012, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
19. **Pal, Ranjit**. & Ghosh, S.N. (2012). Potentiality of Growing Grape on Western Part of West Bengal. National Seminar on “Safe Food for All” from 21st – 23rd February, 2012, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
20. **Pal, Ranjit**. & Ghosh, S. N. (2011). Kendu: an underutilized and lesser known fruit of West Bengal. International symposium on “Minor Fruits and Medicinal Plants for Health and Ecological Security” (ISMF&MP) from 19th – 22nd December, 2011, held at FTC (Lake Hall), Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, (W.B) India.
21. Bhowmick, N., Suresh, C.P., Paul, P.K. & **Pal, Ranjit K**. (2011). Influence of Ethrel on fruiting characteristics of pineapple cv. Kew under Cooch Behar District of West Bengal. International Symposium on “System Intensification Towards Food and Environmental Security” from 24 – 27th February, 2011, held at FTC (Lake Hall), , Bidhan Chandra Krishi Viswavidyalaya, Kalyani, Nadia, (W.B) India.

22. **Pal, R.**, Subba, S., Seletsy, S., Paul, P.K., Bhowmick, N., Mathew B. & Suresh, C.P. (2010). Induction of flowering in Pineapple (*Ananas comosus*. (L) Merr. By NAA and Ethrel. 7th International Pineapple Symposium 2010. From 13 – 15th July, 2010, held at PERSADA Johor International Convention Centre Johor Bahru. Johor. Malaysia.
23. N. Bhowmick, C.P. Suresh, P.K. Paul, **Ranjit, K. Pal** and P. Deb and S. Gurung. (2010). Effect of ethrel on fruiting characteristics of pineapple in Cooch Behar District, West Bengal, India. 7th International Pineapple Symposium 2010. From 13 – 15th July, 2010, held at PERSADA Johor International Convention Centre Johor Bahru. Johor. Malaysia.
24. Suresh, C.P., **Pal, R.**, Deb, P., Bhutia, K.D., Roy, A., Hasan, M.A.(2010).Effect of NAA & Ethrel on yield and quality of pineapple(*Ananas comosus*. (L) Merr. 7th International Pineapple Symposium 2010. From 13 – 15th July, 2010, held at PERSADA Johor International Convention Centre Johor Bahru. Johor. Malaysia.
25. **Pal, Ranjit** K., Bhowmick & Suresh, C.P. (2008). Latka (*Baccaurea sapida* Muell. Arg.) – An Under Exploited Minor Fruit Crop of West Bengal. 3rd Indian horticulture Congress 2008. From 6 – 9th November, 2008.held in Bhubaneswar.
26. Ghosh S.K, Bhowmick, N., Suresh, C.P., Paul, P.K., and **Pal, Ranjit**. (2008). Prospects of litchi cultivation in Cooch Behar district of West Bengal - A Case Study. National Seminar on “Production, Processing, Marketing and Export of Litchi for Economic Prosperity” from 08 to 11th June 2008, held in National Research Centre for Litchi, Mushari, Muzaffarpur, Bihar.

National /International Awards: (4)

1. **Best Paper Award** on National Seminar on “Integrated Approaches in Horticulture for Sustainable Development” during 29th -30th November, 2014, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
2. **Best Oral Presentation Award** on National Seminar on Agriculture and Bio-security in Changing Scenario, 1st – 3rd February, 2014, held at Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan. Bolpur, Birbhum, West Bengal. India.
3. **Best Poster Paper Presentation Award** on Third National Symposium on “Agriculture Production and Protection in Context of Climate Change” from 3rd to 5th November, 2012, held at Birsa Agricultural University, Ranchi, Jharkhand, India.

4. **Best Poster Award** on 7th International Pineapple Symposium 2010. From 13th – 15th July, 2010, held at PERSADA Johor International Convention Centre Johor Bahru. Johor. Malaysia.

Dr. Arwankie Shadap

Full length paper:

1. Studies on storage of ginger seed rhizome in zero energy cool chamber under northern dry zone of Karnataka. **Journal of Plantation Crops**, 39 (1): 119-124; 2011.
2. Performance of ginger var. humnabad as influenced by planting dates under northern dry zone of karnataka. **The Bioscan**, 8(1): 131-133, 2013; **A. Shadap**, N. K. Hegde and A. Pariari.
3. Heterosis and combining ability studies in near homozygous lines of okra [*abelmoschus esculentus* (l.) moench] for growth parameters. **The Bioscan**, 8(4): 1275-1279, 2013; Y. A. Lyngdoh, R. Mulge and **A. Shadap**.
4. Effect of storage methods and seed rhizome treatment on the field performance of ginger. **Journal of Spices and Aromatic Crops**, 24 (1) : 51–55 (2015); **A Shadap**, N K Hegde & Y A Lyngdoh. **A. Shadap**, N.K. Hegde and S. Patil.

Department of Crop Physiology, Biotechnology and Seed Science Technology

Dr.Pushpalatha Ganesh

1. **Pushpalatha G.**, Ajay J., Brajendra P., Rao A.R., Sreenu K., Pragya M., et al., (2016). Identification of salt tolerant rice lines among inter-specific BILs developed by crossing *O. sativa* x *O. rufipogon* and *O. sativa* x *O. nivara*. Australian Journal of Crop Science (ISSN:1835-2707), 10(2), 220-228.
2. Sreenu K., **Pushpalatha G.**, Subramanyam D., Brajendra, Ram T., Sarla N. and V. Rai (2015). Effect of drought stress on morpho-physiological and biochemical responses on introgression lines of KMR3 x *O. rufipogon* and Swarna x *O. nivara*. Annals of Plant and Soil Research, 17 (Special Issue), 9-14.

3. **Pushpalatha G.**, Archana G., Sarla N. and V. Rai (2014). Comparative biochemical analysis of wild introgression lines in response to short-term exposure to salinity. *Asian Journal of Bioscience*, 9(1), 1-8 ([http://www.researchjournal.co.in/online/AJBS/AJBS%209\(1\)/9_1-8_A.pdf](http://www.researchjournal.co.in/online/AJBS/AJBS%209(1)/9_1-8_A.pdf)).
4. **Pushpalatha G.**, Sreenu K., Ajay Jain, Suresh T., Subrahmanyam D., Ram T., Subbarao L.V., Archana G., Sarla N. and V. Rai (2014). Allele mining of salt tolerant genes in *O. rufipogon* x *O. sativa* introgression lines and functional analysis of *cis*-acting regulatory elements. *World Research Journal of Bioinformatics*, Bioinfo publications, 2(1), 025-032.
5. **Pushpalatha G.**, Subrahmanyam D., Sreenu K., Ram T., Subbarao L. V., Parmar B., Archana Giri, Sarla N. and V. Rai (2013). Effect of salt stress on seedling growth and antioxidant enzymes in two contrasting rice introgression lines. *Indian Journal of Plant Physiology*, 18(4), 360-366 (DOI 10.1007/s40502-014-0061-3).
6. Suresh T, Ansari M. W., Babu A. P., **G. Pushpalatha**, K. Sreenu, N. Sarla, Narendra Tuteja and V. Rai (2013). Physiological assessment and allele mining in rice cultivars for salinity and drought stress tolerance. *Vegetos - An International Journal of Plant Research*, 26(1), 219-228 (DOI 10.5958/j.2229-4473.26.2s.142).
7. V. Rai, Sreenu K., **Pushpalatha G.**, Babu A.P., Brajendra, Sandhya and Sarla N. (2010). Swarna/*O. nivara* and KMR3/*O. rufipogon* introgression lines tolerant to drought and salinity. *DRR Newsletter*, Vol. 8(4), pp.4.

Dr.Animesha Pathak

8. **Pathak A.** and Chakraborti S. K. (2014). Impact of bio-fertilizer seed treatment on seed and seedling parameters of maize (*Zea mays* L.). *The Bioscan*. 9(1):133-135.
9. **Pathak A.** and Chakrabarti S. K. (2014). Correlation and path analysis study of seed coat colour and seed deterioration in green gram (*Vigna radiata* L.). *The Bioscan*. 9(2): 815-817.
10. Mandal M. K., Banerjee M., Banerjee H., **Pathak A.** and Das R. (2014). Evaluation of cereal-legume intercropping systems through productivity and Competition ability. *Asian Journal of Science and Technology*. 5 (3): 233-237.

11. **Pathak A.**, Choudhary D., Das R. and Chattopadhyay P. (2015). Effect of Inorganic Fertilizers and GA3 on Seed Production of Clianthus (*Swainsona formosa*). *Environment & Ecology*. **33** (3A): 1209-1213.
12. **Pathak A.**, Chakraborti S. K., Das R. and Mandal M. K. (2015). Storage Life Enhancement of Wheat (*Triticum aestivum* L.) *Environment & Ecology*. **33** (3A): 1377-1381.
13. Sarkar, N., **Pathak, A.**, Chakrabarti, S.K. (2015). Effects of GA3 and Tannic Acid on Seedling Parameters of Rice (*Oryza sativa* L.). *Environment & Ecology*. **33** (4): 1474—1479.
14. Das, R., Patra, B. C., **Pathak, A.**, Mandal, M.K., (2015). Influence of Phosphorus, VAM and PSB on the Performance of Summer Green Gram. *Environment & Ecology*. **33** (4): 1430—1435.
15. Mandal, M.K., Banerjee, M., Malik, G.C., Das, R., and **Pathak, A.** (2015). Effect of Intercrop on Productivity, Energetic of Maize (*Zea mays* L.)- Legumes Based Intercropping Systems. *Environment & Ecology*. **33** (3A): 1382-1385.
16. Das, R., Patra, B. C., Mandal, M.K. and **Pathak, A.** (2015). Integrated weed management in Blackgram (*Vigna Mungo* L.) and its effect on soil microflora under sandy loam soil of West Bengal. *The Bioscan*. **9**(4): 1593-1596.
17. **Pathak, A.**, Mahata, A. C., Sen, S., Mondal, A. and Chakraborti, P. (2014). Modification in biochemical actions of wheat (*Triticum aestivum* L.) Seed under variable storage situation. *Journal of Crop and weed*. **11**(1):66-71.
18. Das, R., Bera, S., Pathak, A. and Mondal, M.K. (2015). Weed Management in Transplanted Rice through Bispyribac Sodium 10% SC and its Effect on Soil Microflora and Succeeding Crop Blackgram. *Int. J. Curr. Microbiol. App. Sci.*, **4**(6): 681-688.
19. **Pathak A.**, Chakraborti S.K., Mandal M.K. and Das R. (2015). Study of response of different wheat varieties towards *Azospirillum* and PSB seed inoculation. *Journal of Applied and Natural Science* **8** (1): 213 – 217
20. Das R., Patra, B. C., Mandal, M.K. and **Pathak, A.** (2015). Efficacy of Some Weed Control Methods in Soybean during *Kharif* Season. *Journal of Applied and Natural Science* **8** (1): 154 – 158

Mr.Dinakar J Gaikwad

21. P. C. Gupta, **D. J. Gaikwad** and S. Mondal (2014). Effect of arsenic toxicity on phytate degradation of Rice (*Oryza sativa* L.) Seed during germination, *The Ecoscan*, **6**: 97-101.

Mr.Shradheyya Kumar Patel

22. S. K. Tripathy and **S. K. Patel** (2014). Abnormal mitosis of root meristem cell of *Alien cepa* L. induced by fabric dye reactive turquoise blue (Procian MX). *African Journal of Biotechnology*.

Department of Entomology

DR.ABID HUSSAIN

SCIENTIFIC PUBLICATIONS

List of notable publications

- Hussain M.A. and Ahmad T. 2016. Infestation of two lepidopteran pests to *Balanites aegyptiaca* fruits in Keren, Eritrea. *International Journal of Medicinal Plants*. Photon: Accepted.
- Hussain M.A. 2015. Concise lecture notes on *Introduction to Plant Protection* (Entomology and Pest Management) for undergraduate students. Department of Plant Protection, Hamelmalo Agricultural College, Keren, Eritrea, pp. 177.
- Hussain MA, Haile A. and Ahmad T. 2015. Infestation of two tephritid fruit flies, *Bactrocera dorsalis* (syn. *B. invadens*) and *Ceratitis capitata*, in guava fruits from selected regions of Eritrea. *African Entomology* 23(2): 510–513.
- Hussain MA and Ahmad W. 2015. The management of *Helicoverpa* species by entomopathogenic nematodes, pp. 289–314. In: *Biocontrol of Lepidopteran Pests*, Series: Soil Biology 43 (K.S. Sree and Ajit Varma, eds.). Springer International Publishing Switzerland.
- Hussain MA, Prasad CS, Ahmad R, Ahmad W, Singh R. 2014. Foliar application of entomopathogenic nematodes, *Steinernema masoodi*, *S. carpocapsae* and *Heterorhabditis indica* for management of legume pod borer, *Helicoverpa armigera* infesting chickpea. *Vegetos* 27(1): 194–198.
- Hussain MA, Ahmad R, Ahmad W. 2014. Evaluation of *Steinernema masoodi* (Rhabditida: Steinernematidae) against soil-dwelling life stage of *Helicoverpa armigera* (Lepidoptera: Noctuidae) in laboratory and microplot study. *Canadian Journal of Plant Protection* 2(1): 4–8.
- Kumar P, Hussain MA, Prasad CS, Prasad M. 2013. Phenotypic characterization and application of RAPD technique in *Bacillus thuringiensis* isolates from North India. *Vegetos* 26(1): 293–300.

- Ahmad T, Hussain MA, Emha E, Gebrehiwet T, Gebremeskel W, Tesfahans W. 2013. Management of African bollworm *Helicoverpa armigera* (Lepidoptera: Noctuidae) in chickpea crop at State of Eritrea. *World Journal of Applied Sciences and Research* 3(1): 27–29.
- Prasad CS, Hussain MA, Pal R, Prasad M. 2012. Virulence of nematode *Heterorhabditis indica* (Meerut strain) against lepidopteran and coleopteran pests. *Vegetos* 25(1): 343–351.
- Hussain MA, Ahmad W. 2011. Management of *Helicoverpa armigera* by Entomopathogenic Nematodes. Lambert Academic Publishing GmbH & Co. KG, Germany, ISBN 978-3-8465-2447-3, 168 pp.
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Mrs.V.Ramalakshmi

1. V.Ramalakshmi,G.m.v. Prasadarao, T.Madhumathi . 2015. Estimation of yield losses due to sucking pests in transgenic cotton. *Indian journal of plant protection sciences* vol-43 (1) pp.98-100.
2. V.Ramalakshmi,G.m.v. Prasadarao,T.Madhumathi . 2013. Bio efficacy of novel insecticides against cotton leafhopper. *Annals of plant protection sciences*. vol- (1) pp.228-230.

Department of Agricultural Extension

Sl No	Publication Type(Journal/Article)	Author	Year	Detail of Publication
1	Journal Of Extension Education, Bhubaneswar OUAT.	Padhy Chitrasena, Dr.Sarkar Asutosh,DrMahapatro Bibhuti Prasad	2010	Impact of Dyadic Communication for taking

				Decision in Farming Sector
2	International Journal of Engineering Technology, Management and Applied Sciences	PadhyChitrasena, Dr Jena Bijaya Kumar	February 2015	Effect of Agricultural Education on Farmers Efficiency: A Review
3	International Journal of Engineering Technology, Management and Applied Sciences	PadhyChitrasena ,BeheraSimadri	June 2015, Volume 3, Issue 6	Role of Horticulture in Human Nutrition: An Analytical Review
4	International Journal of Engineering Technology, Management and Applied Sciences	PadhyChitrasena	September 2015, Volume 3, Issue 9,	Gender involvement in Farm Sector-An interpretative Study and Review
5	International Journal of Engineering Technology, Management and Applied Sciences	PadhyChitrasena	November 2015, Volume 3, Issue 11,	Agriculture for Meeting the Demand of Future Generation and Sustainability: An Interpretative Study
6	International Journal of Engineering Technology, Management and Applied Sciences	PadhyChitrasena , Dr PatroTreshu	April 2016, Volume 4, Issue 4,	Organic Farming Concerning Sustainable Agriculture: An Interpretative

				Study
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Department of Soil Science and Agriculture Chemistry

Dr.Rahul Adhikary

1. **R. Adhikary** ,D. Pain, S.K. Dey, P.K. Tarafdar, A. Pal, A.P. Mahata and S.K. Bauri (2013). Efficient use of geotextile as soil conditioner to increase potato productivity on inceptisol.of West Bengal. *Journal of soil and Water Conservation*, 12(2); 14-17
2. **R. Adhikary** ,Abhijit Ghosal, D. Manna (2014). Seasonal incidence of leaf hopper on okra in correlation with abiotic factors and Evaluationof some neonicotinoid insecticides against okra leaf hopper *Amrasca biguttula biguttula* (Ishida). *ECOLOGY, ENVIRONMENT AND CONSERVATION*, VOL. 20 (2) : 2014.
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Book Chapter Published:

1. Soil water availability and rainfall probability under rain – fed agro ecology of hilly region in West Bengal. In. Global environment: contemporary issues and challenges (Eds. S. Sarkar and A. Sukul). Alpana Enterprise, Kolkata- 700050, West Bengal, India. ISBN: 978-81-921382-2-0.

Dr.Arunbha Pal

Paper Published:

1. S. Kumar, A. Dutta, **A. Pal** and A. Das (2015). Colonization behaviour of arbuscular mycorrhizal fungi and phosphorus uptake pattern of mycorrhizal sensitive upland paddy using hydroponics culture. *Journal of Applied and Natural Science* 7 (1): 10 – 17 (2015).
2. D. Pain, S.K. Dey, P.K. Tarafdar, **A. Pal**, A.P. Mahata, R. Adhikary and S.K. Bauri (2013).Efficient use geotextile as soil conditioner to increase potato productivity on

inceptisol of West Bengal. *Journal of Soil and Water Conservation* 12(2):104 – 107, April – June 2013

3. A. Mahata, S. Sarma, **A. Pal** and N C Das (2013). Impact of organic manure and locally available flora on sub-surface flow of water in paddy field. *Journal of Interacademia* 17(2):254-260, (2013)

Book Chapter Published:

2. S. K. Day, P. Tarafder, S. Bauri and **A. Pal** (2011). Soil water availability and rainfall probability under rain – fed agro ecology of hilly region in West Bengal. In. *Global environment: contemporary issues and challenges* (Eds. S. Sarkar and A. Sukul). Alpana Enterprise, Kolkata- 700050, West Bengal, India. ISBN: 978-81-921382-2-0.

Dr. Saurav Barman

6. **Barman, S.**, Saha, D., and Poi, S.C. (2014). Comparative study of the efficacy of P-solubilising microorganisms under broth culture and soil amended with different Indigenous rock under broth culture and soil amended with different Indigenous rock phosphates, *Indian Agriculturist*.58(3): 129-136. **(NAAS rating 2.58)**.
7. **Barman, S.**, Saha, D., and Poi, S.C. (2015). Solubilization of Indigenous rock phosphates by soil microorganisms under broth culture, *Journal of Interacademia*. 19(1): 60-65. **(NAAS rating 2.34)**
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9. Das, A.C., **Barman, S.**, and Das, R. (2015). Effect of pre-emergence herbicides on microbial biomass and biochemical processes in a typic fluvaquent soil amended with farm yard manure, *Bulletin Of Environmental Contamination and Toxicology*, 95(1). **(NAAS rating 7.22)**

Department of Plant Pathology

Dr.B.Praveen

Sl. No	Details of Publication(journal/article/book/book chapter)	Author	Title of journal/article/book/book chapter	Year of Publication
1.	International Journal of Research in Ayurveda and Pharmacy, Vol. 3, Issue	Praveen B, Satpal Singh	Antimicrobial properties of few plants used in	2012

	1, ISSN No:2229-3566	Bisht, Amrita Kumari Panda, Rojita Mishra and RamaniPriya	traditional system of medication	
2.	Indian Journal of Pharmaceutical Education and Research, Vol. 46, Issue 2, ISSN No:0019-5464	Praveen B, SPS Bisht and Ashok Kumar Panigrahy	16SrDNA sequencing of antibiotic producing bacterial strain Lysinibacillus sp.(BP-3) from Nagavali river basin of Srikakulam, Andhra Pradesh, India	2012
3.	International Journal of Pharmaceutical Research, ISSN No: 0975-2366	Praveen B, Satpal Singh Bisht, A.K. Panda, Rojita Mishra, Kaustava Panda and Rukmini	Screening of paint industry effluent for heavy metal absorbing bacteria	2012
4.	International Journal of Pharmaceutical Sciences and Research., Vol. 3(5): 942-945, ISSN No: 0975-8232	Praveen B, Satpal Singh Bisht, Rukmini and Harman Dhillon	Isolation and screening of heavy metal absorbing bacteria from the industry effluent sites of the river Nagavali	2012
5.	Journal of Pharmacy Research. Vol. 5, Issue 1, 428-429, ISSN No.: 0974-6943	Praveen B, Satpal Singh Bisht, A.K. Panda, Rojita Mishra and Tripti Sahu	Evaluation of indicator and antioxidant activity of hybrid rose Rosa hybrida	2012
6.	International Journal of Pharmaceutical Sciences Review and Research, Vol. 12, Issue 1 ISSN: 0976-044x	Praveen B, Satpal Singh Bisht, A.K. Panda, Rojita Mishra and Harman PreetKaurDhillon	Isolation, purification and detection of antimicrobial activity of beta lactam antibiotics from few fungal strains	2012
7.	International Journal of Pharma and Bio Sciences, Vol. 3/Issue 1, ISSN 0975-6299	Praveen B, Satpal Singh Bisht, Ravi Kumar BVV, V.Rajakumar and S.R. Mishra	Effect of Dichlorvos on serum enzymes of poultry birds	2012
8.	Current Trends in Biotechnology and Pharmacy, Vol. 6(1):7983 ISSN No.	Praveen B and SPS Bisht	Molecular characterization of	2011

	0973-8916		antibiotic producing bacteria <i>Pseudomonas</i> sp.BP-1 from Nagavali river basin of Srikakulam, Andhra Pradesh, India	
9.	Journal of Pharmaceutical and Biomedical Sciences, Vol. 12(18), ISSN: 2230-7885	Praveen B Satpal Singh Bisht, Ravi Kumar BVV, and S.K. Mishra	Effect of Cypermethrin on serum enzymes of poultry birds	2011
10.	International Journal of Pharma and Bio Sciences, Vol. 3(1);77-81, ISSN: 0975-6299	Praveen B, Satpal Singh Bisht, and Rukmini	Screening of paper industry effluent for heavy metal absorbing bacteria	2011
11.	International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 3(5):288-291, ISSN- 0975- 1491	Praveen B, Satpal Singh Bisht, A.K. Panda, SantoshBehera, Kaustav K Panda, Rojita Mishra and SubhraKantaPatro	Comparative study of various Mycotoxins against few bacterial test organisms	2011
12.	International Journal of Bioscience, Biochemistry and Bioinformatics, Vol. 1(4): 252-255, ISSN: 2010-3638	Praveen B, Satpal Singh Bisht, Rojita Mishra, Kaustav K Panda, A.K. Panda, and AjitRoutray	Phytoremediation studies on coal mine waste and coal fly ash by <i>Leucaenaleucocephala</i>	2011
13.	Journal of Environment and Bioscience, Vol. 25(2):235-239, ISSN: 00973-6913	Praveen B, Satpal Singh Bisht, K.RajuPatro, A.K. Panda, Kaustav K Panda	Isolation, Purification & Characterization of Acidolin from <i>Lactobacillus</i> sp.	2011
14.	Asian Journal of Environmental Sciences, Vol. 6(1):53-57, ISSN: 0973-475	Praveen B, A.K. Panda, Sisir Das and SPS Bisht	Isolation of microbes from Radionuclides and metal contaminated sub-surface soils for Bioremediation of Radioactive waste	2011

			management	
15.	International Journal of Pharma and Bio Sciences, Vol. 2, Issue 3, ISSN 0975-6299	Praveen B, SPS Bisht, A.K. Panda and Sisir Das	Preliminary screening of sub-surface soils from Radionuclides and metal contaminated area of Orissa Coast	2011
16.	International Journal of Pharma and Bio Sciences, Vol. 2(4), ISSN 0975-6299	Praveen B, Satpal Singh Bisht, A.K. Panda, R.Sarita, SantoshBehera and Koustava Kumar Panda	Isolation, Purification & Characterization of Asparginase from E.coli	2011
17.	International Journal of Pharmacy and Pharmaceutical Sciences, Vol. 3, Issue 4, ISSN: 0975 – 1491	Praveen B, Satpal Singh Bisht, A.K. Panda and V.Rajakumar	Isolation, Purification and Characterization of Bacitracin from Bacillus sp.	2011
18.	International Journal of Pharma and Bio Sciences, Vol. 2 (4), ISSN: 0975-6299	Praveen B, Satpal Singh Bisht, A.K. Panda, SantoshBehera	Comparative genomics of beta sub-unit of Tryptophan synthase among a group of proteobacteria	2011
19.	Journal of Environment and BioSciences, Vol. 25 (1):77-79, ISSN: 00973-6913	Praveen B Satpal Singh Bisht, JayantMandal, and A.K. Panda	Investigations on gastro protective effect of rabbit anti-rat gastrin antibody in wister albino rat	2011
20.	Journal of Advanced Biotechnology, Vol. 2, Issue 12, ISSN: 0973-0109	Praveen B, A.K. Panda and SPS Bisht	Isolation and characterization of antibiotic producing bacteria Pseudomonas sp.BP-2 from Nagavali river basin of Srikakulam, Andhra Pradesh, India	2011
21.	International Journal of Contemporary Research and Review, Vol. 2 (I) 1-5, ISSN: 0976 – 4852	Praveen B, A.K. Panda, SPS Bisht and	Isolation and 16SrRNA sequencing of Porphyrobacter sp. AK-P3, an aerobic bacteriochlorophyll-containing sulphur reducing bacterium from an Indian hot spring	2011
22.	International Journal of Pharma and Bio Sciences, Vol.1, Issue-4/2010,	Praveen B, Y.Rajesh,	Extraction, Phyto-chemical Screening and	2010

	ISSN: 0975-6299	V.Rajakumar, ManasBoxi and K.Mangamma	In-vitro evaluation of anti oxidant properties of Commicarpuschinensis (aqueous leaf extract)	
23.	International Journal of Pharma and Bio Sciences, Vol. 1(2), ISSN: 0975-6299	Praveen B ,SPS Bisht, Y.Rajesh and SubhasishSahoo	Bioconversion of Sludge from integrated paper and pulp industries	2010
24.	Indian Journal of Biotechnology, Vol. 8, pp456-57, ISSN: 0972-5849	A.K. Panda. Praveen B and SPS Bisht	Clinical and Pathological Status of haemoglobinopathies among pregnant women in Southern Orissa	2009

Mrs. Sowmya Lakshmi Gorle

Sl.N	Details of Publication(journal/article/book/ book chapter)	Author	Title of journal/article/book/book chapter	Year of Publication
1.	<i>The Andhra Agricultural Journal.</i> 62 (3): 590-596	G.Sowmya Lakshmi, V.Manoj Kumar, J.KrishnaPrasadji, R.Lakshmipathy	Effect of time of insecticidal spray on the incidence of bud necrosis and stem necrosis diseases of groundnut	2015
2.	<i>National conference on Emerging challenges and opportunities in biotic and abiotic stress Management (ECOBASM 2014)</i> vol-50-51	Sowmya Lakshmi Gorle, M.Divya, N.JanakiRatnam, A.Jyotsna	Bio Nano Technology-A Boon to Plant Disease Management	2014
3.	<i>National conference on Emerging challenges and opportunities in biotic and abiotic stress Management (ECOBASM 2014)</i> Vol-51	N.JanakiRatnam, G.Sowmya Lakshmi, M.Divya, A.Jyotsna	Nano materials: Antimicrobial agents for plant pathogens	2014
4	Impact of climate change on plant disease-opinion and trends	M.Divya, G. Sowmya Lakshmi N.JanakiRatnam, A.Jyotsna	<i>National conference on Emerging challenges and opportunities in biotic and abiotic stress Management (ECOBASM 2014)</i>	2014

Mr.Licon Kumar Acharya

Sl.N	Details of Publication(journal/article/book/ book chapter)	Author	Title of journal/article/book/book chapter	Year of Publication
1.	A comparative physiological study on different temperature and Ph on radial growth of <i>Sclerotiumrolfsii</i> and <i>Rhizoctoniasolani</i> isolates of Radish.	L. Acharya, I. Bhattacharya	Applied life science	2016

Department of Agronomy

Prof (Dr) Aftabuz Zaman

1. Zaman, A. Talukder, M. L. Hedayetullah, Md. And Gayen, A. 2015. Mitigation of arsenic problem through bio-remediation and agricultural practicesfor sustainable crop production. Proc. of the workshop on incidence of high arsenic in groundwater In West Bengal and its remedial measures held in Kolkata pp8-15
2. Zaman, A., Zaman, P., Hedayetullah, Md., and Talukder, M. L. 2016. Management of acid soils for sustainable crop production in Eastern India. (Research & Reviews) *Journal of Crop Science & Technology*, **4** (3): 22-32;
3. Zaman, A., Zaman, P., Hedayetullah, Md., and Talukder, M. L. 2016. Effective utilization of rainfed lowland in Eastern India. . (Research & Reviews) *Journal of Crop Science & Technology*, **5** (1): 1-10;
4. Zaman, A., Zaman, P., Hedayetullah, Md., and Talukder, M. L. 2016. Rainwater harvesting for recharging groundwater and sustainable agriculture. Proc. of the Conference on sustainable Development & Management of ground water resources, and its remedial measures of emerging crisis and climate change in West Bengal. held in Kolkata on 28th March, pp 62-69;
5. Zaman, A., Zaman, P., Hedayetullah, Md., and Talukder, M. L. 2016. Water resource development and management research for agricultural sustainability in Eastern India. *Global Journal of Biological Research*, **1**(1): 1-4;
6. Zaman, A., Talukder, M. L, Zaman, P., Hedayetullah, Md., 2016. Adoption of improved water management technologies for sustainable agricultural productivity. *International Journal of Agronomy & Crop Science*, **1** (1): 34-39;

Prof.(Dr.)P.S.Raju

1. Mehta, P.M., R.J. Patel, and P.S. Raju. 1976. Effect of exogenous application of gibberellic acid, kinetin, sulphanilamide and their interactions on germination and seedling growth of Helianthus annuus L. var. E.C. 68415. *Vidya (Biosciences)* 19:29-38.
2. Sowbhagyam, B.M., P.S. Raju, and K. Gurumurti. 1978. Increased levels of indole-3-acetic acid in spiked stem cuttings of Santalum album L. *Ind. J. Forest.* 1:203-205.

3. Gurumurthi, K., P.S. Raju, and P.K. Sen-sarma. 1979. Evidence for the existence of toxin like substances in spiked sandal. *Ind. J. Forest.* 2:43-45.
4. Maiti, R.K., P.S. Raju, and F.R. Bidinger. 1981. Evaluation of visual scoring for seedling vigour in sorghum. *Seed Sci. Tech.* 9:613-622.
5. Wilson, G.L., P.S. Raju, and J.M. Peacock. 1982. Effect of soil temperature on sorghum emergence. *Ind. J. Agric. Sci.* 52:848-851.
6. Maiti, R.K., K.E. Prasada Rao, P.S. Raju, and L.R. House. 1984. The glossy trait in sorghum Its characteristics and significance in crop improvement. *Field Crops Res.* 9:279-289.
7. Maiti, R.K., P.S. Raju, and F.R. Bidinger. 1985. Studies on germinability and some aspects of pre-harvest physiology of sorghum grain. *Seed Sci. Tech.* 10:27-35.
8. Raju, P.S., R.B. Clark, R.K. Maiti, and J.W. Maranville. 1985. Differential response of glossy and nonglossy sorghum genotypes to phosphorus. p. 56. In *Proc. 14th Grain Sorghum Res. Util. Conf. Sorghum Improvement Conference of North America, Lubbock, Texas.*
9. Raju, P.S., R.B. Clark, and J.W. Maranville. 1986. Evaluation of sorghum genotypes to low phosphorus. *Agron. Abstr.* :212.
10. Agrawal, R.P., B.S. Jhorar, R.K. Maiti, P.S. Raju, and J.M. Peacock. 1986. Effects of soil crusting on seedling emergence in sorghum genotypes. *Internat. J. Trop. Agric.* 4:15-22.
11. Raju, P.S., R.B. Clark, J.R. Ellis, and J.W. Maranville. 1987. Vesicular-arbuscular mycorrhizal infection effects on sorghum growth, phosphorus efficiency, and mineral element uptake. *J. Plant Nutr.* 10:1331-1339.
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17. Raju, P.S., R.B. Clark, J.R. Ellis, and J.W. Maranville. 1988. Effects of VA mycorrhizae on growth and mineral uptake of sorghum grown at varied levels of soil acidity. *Comun. Soil Sci. Plant Anal.* 19:919-931.
18. Raju, P.S. and R.B. Clark . 1989. Efeitos de micorrizas vesiculo-arbusculares (MVA) no crescimento e absorcao mineral do sorgo em solo com diferentes valores de pH (VA mycorrhizae effects on sorghum growth and mineral uptake at varied soil pH). p. 150-151. In Proc. 22nd Congress of Brazilian Soil Science Society. Brazilian Soil Science Society, Recife, Brazil.
19. Raju, P.S., R.B.Clark, J.R.Ellis, R.R.Duncan, and J.W.Maranville. 1990. Benefit and cost analysis and phosphorus efficiency of VA mycorrhizal fungi colonizations with sorghum (Sorghum bicolor) genotypes grown at varied phosphorus levels. *Plant and Soil* 124:199-204.
20. Raju, P.S., R.B. Clark, J.R. Ellis, and J.W. Maranville. 1990. Effects of species of VA mycorrhizal fungi on growth and mineral uptake of sorghum at different temperatures. *Plant and Soil* 121:165-170.
21. Raju, P.S., R.B. Clark, J.R. Ellis, and J.W. Maranville. 1990. Mineral uptake and growth of sorghum colonized with VA mycorrhiza at varied soil phosphorus levels. *J. Plant Nutr.* 13:843-859.
22. Raju, P.S., M.A Osman, P. Soman, and J.M. Peacock. 1990. Effects of N, P and K on Striga asiatica (L.) Kuntze seed germination and infestation of sorghum. *Weed Res.* 30:139-144.
23. Maiti, R.K., P.S. Raju, and F.R. Bidinger. 1990. Seedling Vigor in pearl millet. I Role of seed size. *Turrialba* 40:353-355.
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1. Maiti, R.K., P.S. Raju and F.R. Bidinger 1978. Evaluation of visual scoring for seedling vigour in soughum. ICRISAT, Hyderabad, India. 15p.
2. Maiti, R.K., S.K. Manohar, and P.S. Raju. 1985. Sorghum anatomy (in Spanish). University of Nuevo Leon, Monterrey, Mexico. 28p.
3. Raju, P.S., R.B. Clark, J.R. Ellis, R.R. Duncan, and J.W. Maranvillie 1990. Benefit and cost analysis and phosphorus efficiency of VA mycorrhizal fungi colonizations with sorghum (Sorghum bicolor) genotypes grown at varied phosphorus level. p. 165-170. In M.L. Van Beusichem (ed.) *Plant nutrition-physiology and applications*. Kluwer Academic Publishers, Dordrecht, Netherlands.

Symposia/Seminar Proceedings:

1. Raju, P.S. 2010. Pedigree analysis of diseases. p.41. In Proc. National Seminar on Changing Horizons of Applied Biology. 11-12th Dec. MRPG College, Vizianagaram.
2. Raju, P.S. 2012. Host resistance to Striga. p.30. In Proc. State Level Seminar on Biochemistry Challenges and Prospects 29th Jan. MRPG College, Vizianagaram.

Dr. Tanuj Kumar Mandal

1. A. M. Puste, **Tanuj Kumar Mandal**, S. K. Gunri, H. Banerjee, M. Dasgupta and A. K. Maiti (2012) Importance of aqua-terrestrial ecosystem and development of an IFS module in water monitoring, productivity and sustainability. *ARPJ Journal of Science and Technology*, 2(Special Issue) ICESR 2012 : 31-47.
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