

CURRICULUM VITAE

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Corresponding Address : **Ramakrishna Mission Vivekananda University**, School of Agriculture and Rural Development, Faculty Centre for Integrated Rural & Tribal Development and Management, Ramakrishna Mission Ashrama, Morabadi, Ranchi-834008, Jharkhand.

Areas of Interest:

- ❖ Crop improvement: Vegetable crops by adopting organic farming practices
- ❖ Organic farming for the sustainable and integrated vegetable crop management
- ❖ Conservation of different land races of indigenous vegetables.

Educational Qualifications:

- ❖ Madhyamik Pariksha (Secondary Examination) from **Madhyamgram Acharya Prafulla Chandra Vidyayatan** under **West Bengal Board of Secondary Examination** passed in 1997 and secured first division with star marks.
- ❖ Higher Secondary Examination from **Madhyamgram High School** under **West Bengal Council of Higher Secondary Examination** passed in 1999 and secured first division with star marks.

- ❖ B. Sc. (Honours) in Horticulture secured with first class third position from BCKV in 2003.
- ❖ M. Sc. in Horticulture with the specialization in Vegetable Crops and secured first class first position in 2005 from BCKV.
- ❖ Ph. D. in Horticulture with the specialization in Crop Improvement of Vegetable Crops from Bidhan Chandra Krishi Viswavidyalaya in 2009.
- ❖ Qualified **National Eligibility Test** in Vegetable Science conducted by the Agricultural Scientist Recruitment Board of Indian Council of Agricultural Research during 2006.

M.Sc. Dissertation: “Studies on variability and heterosis on yield and quality attributing characters of Pumpkin (*Cucurbita moschata* Duch. ex Poir.)”.

Ph. D. Thesis Title: “Characterization, Inheritance Pattern and Utilization of Genetic Parthenocarpy in Tomato (*Lycopersicon esculentum* Mill.)”.

Achievements and Awards:

- ❖ Senior Merit Fellowship in Master’s Degree Programme.
- ❖ Awarded Merit Certificate for securing First Class First position in M. Sc. (Horticulture) for the year-2005.
- ❖ Enjoyed Senior Research Fellowship during Ph. D. Programme from the APEDA, Government of India and FPI&H, Government of West Bengal.
- ❖ Qualified NET conducted by ASRB, ICAR and recognized by the UGC in Horticultural Vegetable Science in the year of 2006.

Published Papers:

- ❖ **Dutta, A.K.,** Shirin Akhtar, C. Karak and **P. Hazra.** (2013). Gene actions for fruit yield and quality characters of tomato through generation mean analysis. *Indian Journal of Horticulture*, **70**(2): 230-237.
- ❖ Shirin Akhtar, S.H. Ansary, **A. K. Dutta,** C. Karak and P. Hazra (2012). Crucial reproductive characters as screening indices for tomato (*Lycopersicon esculentum* Mill.) under high temperature stress. *Journal of Crop and Weed*, **8**(1):114-117.

- ❖ Roy, T., S. Bhattacharya, **A. K. Dutta**, Shirin Akhtar, C. Karak and P. Hazra. (2011). Characterization of four genic male sterile lines of tomato (*Solanum lycopersicum*). *The Horticultural Journal*, **24** (1): 47-52.
- ❖ Hazra, P. and **Dutta, A. K.** (2011). Parthenocarpy in tomato (*Solanum lycopersicum*), its inheritance pattern and association with marker characters. *Indian Journal of Genetics and Plant Breeding*, **71** (3): 248-253.
- ❖ Hazra, P. and **Dutta, A. K.** (2010). Inheritance of parthenocarpy in tomato (*Solanum lycopersicum*) and its association with two marker characters. *International Research Journal of Plant Science*, **1**(6): 144-149.
- ❖ Hazra, P.; **Dutta, A. K.** and Padma Chatterjee (2010). Altered gibberellin and auxin level in the ovaries in the manifestation of genetic parthenocarpy in tomato (*Solanum lycopersicum*). *Current Science*, **99** (10): 1439-1443.
- ❖ Hazra, P. and **Dutta, A. K.** (2010). Expression of Parthenocarpy in Tomato Due to Temperature and Pollination Treatment. *International Journal of Vegetable Science*, **16**:222–232.
- ❖ Hazra, P.; Ansary, S. H.; **Dutta, A. K.**; Balacheva, E. and Atanassova, B. (2009). Breeding tomato tolerant to high temperature stress. 4th Balkan Symposium for Vegetables and Potato, 9-12 September, 2008, Plovdiv, Bulgaria. *Acta Horticulturae*, **830**: 241-248.
- ❖ Hazra, P.; Mandal, A. K.; **Dutta, A. K.** and Ram, H. H. (2007). Breeding pumpkin for fruit yield and other characters. *International Journal of Plant Breeding*, **1**(1): 51-64.
- ❖ Hazra, P.; Mandal, A. K.; **Dutta, A. K.**, Sikdar, D. and Pandit, M. K. (2007). Breeding pumpkin (*Cucurbita moschata* Duch. ex Poir.) for high yield and carotene content. In: M. L.Chadha *et al.*(Eds) Proc.1st Intern. Conf. on Indigenous Veg. and legumes. *Acta Horticulturae*, **752**: 431-435.
- ❖ **Dutta, A. K.**; Hazra, P. and Pandit, M. K. (2006). Determination of selection indices for pumpkin. *The Horticultural Journal*, **19**(3): 298-300.
- ❖ Pandit, M.K.; Hazra, P. and **Dutta, A. K.** (2006). Study on heterosis for yield and quality characters of pumpkin (*Cucurbita moschata* Duch. ex. Poir). In: Ram, H. H. and Singh, H. P. (Eds) *Cucurbits Breeding and Production Technology*,

Proceedings of the National Seminar on Cucurbits, College of Agriculture, Pantnagar, Uttarakhand, India, pp. 319-327.

Published Books:

- ❖ **Dutta, A. K.** (2011). **Genetic Parthenocarpy in Tomato**. Olsen, H. (Acquisition Editor). LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr. 99, 66123 Saarbrücken, Germany. pp. 177 (ISBN: 978-3-8465-0721-6).
- ❖ Kumar, R. and **Dutta, A. K.** (2012). **Eco-Friendly Approaches to Check Major Pests in Cabbage**. Melnic, T. (Acquisition Editor). LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr. 99, 66123 Saarbrücken, Germany. pp. 85. (ISBN: 978-3-8484-1684-4).
- ❖ Prasad, M.; **Dutta, A. K.** and Kumar, R. (2012). **Nutritional Response of Strawberry under Eastern Indian Plateau Region**. Hannah Olsen (Acquisition Editor). LAP LAMBERT Academic Publishing GmbH & Co. KG, Dudweiler Landstr. 99, 66123 Saarbrücken, Germany. pp. 257. (ISBN: 978-3-8484-1684-4).

Published Book Chapter(s):

- ❖ Hazra, P. and **Dutta, A. K.** (2011). Vegetable Breeding for Quality Traits. In: *Breeding and Protection of Vegetables*, Rana, M. K. (Ed.). New India Publishing Agency, Pitam Pura, New Delhi-110088, Chapter-7, pp: 274-314. (ISBN: 978-93-8023549-3).
- ❖ Contract Farming by **Dutta, A. K.** M/S Agrobios (India), Jodhpur, Rajasthan, Volume-II (In press).
- ❖ Kumar, R. and **Dutta, A. K.** Insect and mite pests of Brinjal (Eggplant): Bio-economics and management. Agrobios India (In press).

Professional Experiences:

- ❖ Presently working as **Assistant Professor (Horticulture) in Ramakrishna Mission Vivekananda University** under the School of Agriculture and Rural Development, Faculty Centre for Integrated Rural & Tribal Development and

Management, Ramakrishna Mission Ashrama, Morabadi, Ranchi-834008 since 4th August, 2009.

- ❖ Supervising students of Integrated M. Sc. in IRTDM for their M.Sc. dissertation and B. Sc. (IRTDM) Honours project works.
- ❖ Worked as **Scientific/Technical Officer** under **AVRDC-The World Vegetable Centre, Regional Centre for South Asia**, Hyderabad from 22nd September, 2008 to 31st July, 2009. There, my key responsibilities were to conduct different experimental trials on several vegetables including indigenous vegetables, framing of home garden modules for year round vegetable production as well as safe vegetables production under net house condition.

Research Experiences:

- ❖ **Development of packages of practices** for growing different horticultural crops through **organic farming**.
- ❖ **Framing of agro-techniques** for the year round production of safe vegetables through **home garden and net houses**.
- ❖ Worked as **Senior Research Fellow** in the project entitled “**Standardization of agro-techniques for quality seed production of onion under Gangetic plains of West Bengal**” funded by FPI&H, Government of West Bengal from 21st July, 2006 to 19th September, 2008.
- ❖ Worked as **Senior Research Fellow** in the project entitled “**Export Oriented Vegetable Production under Low Cost Poly House**” funded by **APEDA**, Government of India from 15th September, 2005 to 20th July, 2006.
- ❖ Around seven years research experiences for documentation of different qualitative and quantitative characters of several vegetables including indigenous vegetables, maintenance of various male sterile lines and making crosses among promising lines of tomato in open field as well as in poly house conditions.
- ❖ Experience on tissue culture techniques for the multiplication of parthenocarpic and male sterile lines of Solanaceous vegetables especially tomato and brinjal.

Present Research Areas:

- ❖ Identification of nutritionally rich sweet potato varieties for tribal communities of Jharkhand.
- ❖ Standardization of onion production for sub-tropical climate of Jharkhand through organic farming.
- ❖ A study on vegetable based livelihood of small and marginal farmers of Jharkhand.
- ❖ Economic contribution through intervention of new technologies in different horticultural crops cultivation in Ramgarh district of Jharkhand.
- ❖ A comparative study on present agriculture based livelihood status for the villagers of different hamlets of Chanpi village.
- ❖ A study on the forest based livelihood of the tribal populace of Ranchi district of Jharkhand.
- ❖ Comparative study between *Kharif* and *Rabi* seasonal potato cultivation in Ranchi district of Jharkhand along with its economics and labour utilization pattern.
- ❖ Enhancement of nutritional status of vermicompost through application of different organic solutions during composting.
- ❖ Production potentiality study of some important vegetables through organic, conventional and advance management situations under the Chhotanagpur plateau region.
- ❖ Performance of sand mulched onion with the application of different organic liquid forms of manures under sub-tropical climate of Ranchi.
- ❖ Seasonal availability of different livelihood related materials from the surrounding forests: A case study for the Bedia community of Ranchi district.

Symposium/Seminar/Conference Contribution:

- ❖ First International Conference on “**Bio-resource and Stress Management**” held at Science City, Kolkata, India from 6th February to 9th February, 2013.
- ❖ National Seminar on “**Integrated Rural Development and Management: Issues, Strategies and Policy Options**” held at Integrated Rural Development and Management (IRDM) Faculty Centre of Ramakrishna Mission Vivekananda University at Ramakrishna Mission Ashrama, Narendrapur, Kolkata-700103, West Bengal, India from 17th to 18th December, 2010.

- ❖ Regional Learning Program on “**Advances in Vegetables and Vegetable Legumes Breeding**” held in AVRDC-Regional Center for South Asia and ICRISAT, Patancheru, Hyderabad, India from 27th April to 2nd May, 2009.
- ❖ 15th West Bengal State Science and Technology Congress held in Bengal Engineering and Science University, Shivpur, Howrah from 28th to 29th February, 2008.
- ❖ International Symposium on “**Management of Coastal Ecosystem: Technological Advancement and Livelihood Security**” held at Science City, Kolkata, India from 27th to 30th October, 2007.
- ❖ National Symposium on “**Organic Horticulture-Its Production, Processing, Marketing and Export for Sustainability**” held in Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal from 8th to 10th June, 2007.
- ❖ 13th West Bengal State Science and Technology Congress held in Ballygunge Science College, Kolkata from 28th February to 1st March, 2006.
- ❖ National Symposium on “**Sustainable Production and Export of Horticultural Crops**” held in Bidhan Chandra Krishi Viswavidyalaya, Lake Hall, Kalyani, West Bengal from 2nd to 4th December, 2005.

Other Personal Information:

- ❖ **Nationality:** Indian.
- ❖ **Native State:** West Bengal.
- ❖ **Languages Known:** Bengali, English and Hindi.
- ❖ **Membership:** Horticultural Society of India and different other scientific societies.