


## BIO-DATA OF P. HAZRA

1. Name in full	:	Pranab Hazra	
2. Date of birth	:	03.03.1960	
3. Field of Specialization	:	Vegetable Science (Vegetable Breeding, Hybrid technology and seed production)	
4. Designation and place of work	:	Dean, Faculty of Horticulture Professor, Department of Vegetable Crops, Faculty of Horticulture, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur – 741252, Nadia, West Bengal	
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**5. Academic and professional career:** *M. Sc. (Ag), Ph.D, FFAO, FISVS, M.NA.Sc.*

FAO Fellow (Israel),  
Fellow, Indian Soc. Vegetable Science  
Member, National Academy of Science, India  
Former Visiting scientist (Bulgaria)

**6. Professional experience:** 27 years of teaching, research and developmental experience in Agricultural University

**7. Awards**

- Awarded ICAR-AHRD Fellowship in 2000 from FAO, Rome for pursuing International course “Biotechnology in Agriculture: Plants and micro-organisms” at Hebrew University of Jerusalem, Rehovot, Israel.
- Awarded Indo-Bulgaria inter-Governmental project by Department of Science and Technology, Govt. of India for “Visiting Scientist” programme to the Institute of Genetics, Bulgarian Academy of Science, Sofia, Bulgaria under Indo-Bulgaria Inter-Governmental project, 2008 – 2011.
- Fellow, Indian Society of Vegetable Science for 2007 (Conferred on 04.04.2011).
- Nominated Member, The National Academy of Sciences, India, Allahabad.

**8. Field of expertise**

- Human resource development and Research in Vegetable Science with special reference to Vegetable breeding and seed production.
- Different aspects of hybrid technology in vegetable crops including male sterility.
- Characterization and management of genetic diversity of different vegetable crops.
- Management of open-pollinated and hybrid seed production technology in different vegetable crops.
- Planning and projections of Agricultural production systems at National and state level with special reference to vegetable production and improvement.

**9. Academic achievements**

- Supervision of research works of 14 post-graduate students leading to Ph.D. degree, 9 awarded, 1 submitted and 3 at different stages of submission of thesis.
- Supervision of 12 research projects so far funded by different national agencies of India.
- Development of well-equipped laboratory, green house and documentation facilities in the university for research and developmental activities.
- Published 121 research papers in different referred National and International journals.
- Authored 8 books, 16 book chapters in 13 books, 2 monographs, 3 practical manuals and 2 technical manuals and several extension bulletins.

**10. Development of varieties/hybrids**

- Two non-viny, photo insensitive and high yielding vegetable cowpea having appreciable protein content , Bidhan Barbati-1 and Bidhan Barbati-2 (Released by State variety release committee, 1996)
- One tomato leaf curl virus tolerant tomato hybrid, BCTH-4 (National release at the 28<sup>th</sup> AICRP in Vegetables held at IIHR, Bangalore during 16-19 January, 2010).

**11. Prominent Research achievements**

- Development of one processing quality tomato hybrid, BCTH-62, high quality varieties of brinjal (BCB-11, BCB-30), pointed gourd (BCPG-3, BCPG-4, BCPG-5) and chilli (BCC-1) (under different levels of evaluation through AICRP Vegetable crops).

- Development of one breeding line of tomato resistant to tomato leaf curl virus viz., Cross 8 F<sub>5</sub>P<sub>1</sub>-1 through complex crosses involving wild relatives of tomato.
- Development of two breeding lines of tomato tolerant to high temperature stress viz., CLN B and CLN R.
- Characterization of sporogenous (*ms-2*, *ms-45*, *ms-16*, *ms-10*<sup>36</sup>) and positional (*ps*, *ps-2*) sterility of tomato.
- Characterization of functional male sterility sterility of brinjal line UGA MS-1 and determination of nature of genetic control conditioning functional male sterility of brinjal as *fms/fms + mod1/mod1 + mod2/mod2*.
- Development of one stable parthenocarpic line of tomato viz., BCT-67 from “Oregon Pride”.
- Understanding the different biochemical characters conferring tomato leaf curl virus tolerance to tomato and fruit and shoot borer tolerance to brinjal and nature of genetic control governing the characters.
- Schematic presentation on the evolution of different cultigroups (sub-species) of cowpeas and framing of breeding strategy through a number of genetical studies employing different quantitative and quality characters.
- Development of breeding approaches of pumpkin through detailed investigation on genetic architecture and associations of different quantitative and fruit quality characters and inbreeding of the open pollinated genotypes.
- Breeding approaches of pointed gourd and characterization of female clones through biometrical methods, anatomical features and isozyme pattern.
- Characterization of different lines of tomato possessing mutant genes viz., *hp* (*high pigment*), *og<sup>c</sup>* (*old gold crimson*), *Aft* (*anthocianin fruit*), *ful* (*fulgens*), *dg* (*dark green fruit*), *rin* (*ripening inhibitor*) conditioning enhanced nutritional quality, delayed ripening and other physiological attributes.
- Development of packages for both open-pollinated and hybrid seed production of different vegetable crops.
- Isolation and characterization of induced mutants of tomato.

## 12. Recognition

1. Awarded “Junior research fellowship”, ICAR in 1981 during M.Sc. (Agri.) programme.
2. Stood 5<sup>th</sup> in Agricultural Scientists Recruitment Board’s (ASRB) examination for scientist selection in Horticulture, 1985.
3. “Foreign delegate” in the first conference of Genetical Society of Bangladesh, held at Rajsahi University, Bangladesh in 1999.
4. “Consultant technical expert” for A. F. Ferguson & Co., 15 Park Street, Kolkata-16 for the study on the “Feasibility of setting up an Agri- Export zone for vegetables in West Bengal”, submitted to the Dept. of Food Processing Industries and Horticulture, Govt. of West Bengal in 2002.
5. Member of the working Sub group “Vegetable crops” of the Working Group of “Horticulture, Plantation crops and Organic farming” for XI five year Plan (2007 to 2012), Planning Commission, Govt. of India, 2006-07.
6. Member of the working group “Vegetable Production” sub-Committee of the Agriculture Commission”, Govt. of West Bengal, 2007-08.
7. Member of the working group “Seeds and Agricultural Management” sub-Committee of the Agriculture Commission”, Govt. of West Bengal, 2007-08.
8. Technical expert of the Government sponsored “Seed village programme” for production of vegetable seeds through participation of the farmers.
9. M.Sc. and Ph.D. external examiner and paper setter in different universities.
10. “Invited speaker” in different National, State and University level Seminars and symposia on different aspects of Horticulture particularly Vegetable Science.
11. Member, Editorial Board under two domains “Functional Plant Science and Biotechnology (D8) and “Horticulture, Floriculture and Ornamental plant science and Biotechnology (D11) of The Global Science Books Ltd., , Japan.
12. “Referee” for evaluation of research papers for Indian Journal of Horticulture, New Delhi, Indian Journal of Genetics and Plant Breeding, IARI, New Delhi, Vegetable Science, IIVR, Varanasi, The Horticultural Journal, BCKV, Indian Journal of Agricultural Science, I.C.A.R., New Delhi, Acta Physiologia Plantarum, Poland, International Journal of Plant Breeding, Japan. African Journal of Biotechnology, National Academy of Science, Biological Science, Scientia Horticulturae, Acta Horticulturae.
13. Expert member on the selection committee for appointment of Professor and Associate Professor in the Department of Horticulture of Bangladesh Agricultural University, Mymensingh, Bangladesh, 2010-2011.
14. Member, Editorial board, Indian Society of Vegetable Science, IIVR, Varanasi, 2011-2014.
15. Member, Editorial Board of the University periodical “Krishibidhan” published from the Directorate of Extension education, Bidhan Chandra Krishi Viswavidyalaya, Mohanpur.
16. Recipient of financial assistance from different organizations/institution in the form of different research projects and training programmes.

## 15. Membership in professional societies: 9

### 16. Foreign visit, Seminar/Conference/Congress

1. Rajsahi University, Rajsahi, Bangladesh, Hebrew University of Jerusalem, Israel, Jahangirnagar University, Dhaka and Bangladesh Agricultural University, Mymensingh, Bangladesh, Warsaw Agricultural University, Warsaw, Poland, Wageningen University, Wageningen, The Netherlands, Institute of Genetics, Bulgarian Academy of Science, Sofia, Bulgaria, Sharjah and Dubai of United Arab Emirates, Valencia University, Spain,

University of Malaysia, Sarawak, Malaysia for different academic pursuits.

2. Attended 12 International Seminar/Conference/Congress and 26 National level Seminar/Symposium as “Selected speaker” and “Author of the contributory paper”.