



CURRICULUM VITAE

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Former Invited Professor
Central University of Punjab, Bathinda - 151001.

Former Emeritus Scientist (ICAR)
School of Agricultural Biotechnology
Punjab Agricultural University, Ludhiana - 141 004, India.

Former Coordinator of Research, Basic Sciences
Punjab Agricultural University, Ludhiana - 141 004, India.

Former Head, Departments of Genetics, Biotechnology (Director) and Plant Breeding
Punjab Agricultural University, Ludhiana - 141 004, India.

Birth: October 4, 1947, Una (Himachal Pradesh).
Marital status: Married
Field of competence: Genetics of Host-Parasite Interactions
Education:

Degree	University	Year of passing	Specialization
Ph.D. (Genetics)	Punjab Agricultural University, Ludhiana, India	1979	Genetics of Host-Parasite Interactions
M.Sc. (Plant Breeding)	Punjab Agricultural University, Ludhiana, India	1969	Cytogenetics
B.Sc. (Agri. & Animal Husbandry)	Punjab Agricultural University, Ludhiana, India	1967	Genetics and Plant Breeding

Positions held:

Period	Position	Organization
Nov.1969 – July 1984	Res. Asstt./Assistant Geneticist	Punjab Agricultural University, Ludhiana.
July 1984 – Dec. 1992	Geneticist (Associate Professor)	Punjab Agricultural University, Ludhiana.
Dec.1986 – Sept.1987	Visiting Scientist	University of Sydney, Australia.
Jan. 1993 – Jan. 1995	Senior Geneticist (Professor)	Punjab Agricultural University, Ludhiana.

Feb.1995 – Feb. 1998	National Fellow (ICAR)	Indian Council of Agricultural Research
Mar.1998 – Jan. 2002	Head of Department Genetics & Biotechnology	Punjab Agricultural University, Ludhiana
Feb.2003 – Nov. 2003	Coordinator of Research *(Basic Sciences)	Punjab Agricultural University, Ludhiana
Dec.2003 –Mar. 2004	Head of Department** Plant Breeding, Genetics & Biotechnology	Punjab Agricultural University, Ludhiana
Apr.2004 – Nov.2006	Senior Geneticist (Professor)	Punjab Agricultural University, Ludhiana
Dec.2006 – Mar.2007/Oct. 2007	Head of Department/Senior Geneticist** Plant Breeding and Genetics	Punjab Agricultural University, Ludhiana
Apr.2008 – May 2010	Emeritus Scientist (ICAR)	Punjab Agricultural University, Ludhiana
Nov.2010 – October 8, 2012	Professor and Coordinator, Centre for Biosciences	Central University of Punjab, Bathinda
	Additional Charge of Registrar as Professor In-charge Administration up to September 04, 2012 and Controller of Examinations till October 2013.	
October 9, 2012 – December21, 2015	Invited Professor and Coordinator, Centre for Biosciences	Central University of Punjab, Bathinda
	Additional Charge of following Centers from time to time:	
	Centre for Human Genetics Centre for Genetic Diseases & Molecular Medicine Centre for Biochemistry & Microbial Sciences	

* = Officiated Dean, College of Basic Sciences at PAU for nearly two months

**= Staff strength of this department was 122 scientists/teachers and nearly 300 non-teaching employees

Additional university level administrative responsibilities while in service at PAU:

1. Established IPR Cell of the Punjab Agricultural University in 2003 and worked as its first Convener from July 2003 to October 2006.
2. **Developed the IPR Policy of Punjab Agricultural University and got its approval from the Board of Management for its implementation (2005).**

3. **Convener IP Advisory & Technology Commercialization Committee, Punjab Agricultural University (Nov. 2006 to 31.10.2007).**
4. **Member Secretary, Institutional Biosafety Committee, Punjab Agricultural University (July 2000 to Feb. 2003).** Made IBSC functional at PAU and actively helped the university in IBSC meetings and organizing other activities including organizing the seminars on Biosafety etc. up to October 31, 2007.
5. **Member Academic Council, Punjab Agricultural University, (2001 to 2003).**
6. Member Board of Studies, College of Basic Sciences & Humanities (1998 to 2003).

Research projects handled so far:

Funding Agency	Title of the project	Year of start	Concluding Year
As Principal Investigator			
Punjab Govt.	Molecular basis for expression of disease resistance in crop plants.	1990	1993
ICAR	Improvement of Basmati Rice for increased productivity & export purposes.	1990	1993
ICAR	Identification, characterization and chromosomal location of new adult plant leaf rust resistance genes in wheat.	1993	1996
ICAR	Genetic enhancement of quality rices to increase their export potential.	1994	1999
ICAR	Chromosome location and designation of new leaf rust resistance genes in wheat and their characterization to develop wheats with durable resistance.	1995	1998
ICAR	Chromosome location of new genes for leaf rust resistance in wheat and development of near isogenic lines (NILs) with these genes.	2000	2003
DBT	Development of varieties with durable resistance to leaf and stripe rust using molecular marker technology in bread wheat.	2002	2007
ICAR (NATP-CGP)	Chromosome location, designation and fine mapping of novel adult plant leaf rust resistance genes in wheat through molecular technique.	2002	2005
Punjab Govt.	Identification, designation and transfer of novel stripe rust resistance genes to wheat cultivars through molecular techniques.	2002	2005

DBT	Mapping of non-hypersensitive leaf rust and stripe rust resistance genes in bread wheat	2005	2008
Swedish Development & Cooperation Agency –DBT	Improving rust resistance in wheat suitable for marginal rain-fed and semi-arid zone of central and peninsular India through molecular markers	2005	2007
ICAR	Pyramiding of rust resistance genes for multiple biotic stresses	2005	2008
PVPFRA	Establishing Centre for Protection of Plant Varieties and Farmers Rights in North India	2007	2008
ACIAR	Molecular marker technologies for faster wheat breeding in India. *	2008	2012
As Co-Principal Investigator			
ICAR	Sustainable management of plant biodiversity in rice	2002	2003
ICAR	Characterization of some stripe rust resistant wheats and development of Near Isogenic Lines with novel genes from these.	2002	2005
Research Associate projects as supervisor			
CSIR	Variation in expression of adult plant leaf rust resistance genes in wheat (To Dr.Ms. Neelam) Supervisor	1993	1995
ICMR	Study of MTHFR gene in rural and urban populations of Punjab (To Dr. Ms. Rinku Bassi) Supervisor	2002	2004

*= Developed this project during 2006-07 but the project started operating in 2007 only when I was to retire.

1. International linkages:

- a. Participated in the ACIAR-ICAR collaborative research project “Genetics and breeding for rust resistance in wheat” (1986-1991)
- b. Partner in SDC (Swedish Development & Cooperation Agency) – DBT (Department of Biotechnology, Government of India) funded project on rust resistance in wheat.
- c. Developed an Indo-Australian research project on wheat entitled, “Molecular marker technologies for faster wheat breeding in India” during 2005-07 with the help of Australian scientists from University of Sydney. The project is in operation since April 2007 and it is funded by ACIAR. This project will help12

wheat breeders of Punjab Agricultural University to gain hands-on experience on marker assisted breeding in reputed Australian laboratories.

2. Publications:

Nearly 260 research papers/presentations/abstracts/book chapters in scientific journals and conference proceedings. Complete list of publications is attached as Annexure I.

3. Distinctions:

- a. National Fellowship (a Professorial chair) of ICAR in recognition of my work on Genetics of rust resistance in wheat (1995-1998).
- b. V.P. Gokhle Cash Prize in Plant Pathology in recognition of my work on wheat rusts (2000).
- c. Foundation Day award from Punjab Agricultural University (1995).
- d. Fellow Indian Society of Genetics & Plant Breeding
- e. Member Editorial Board Indian Journal of Genetics & Plant Breeding

4. Peer recognition while in service:

- a. Member, Research Advisory Committee, National Research Centre for Mushrooms, ICAR (2002-2004).
- b. Member, National Task Force on Agricultural Biotechnology, Department of Biotechnology, Ministry of Science & Technology, Government of India (2003-2006).
- c. Member of selection committees for appointments of scientists in ICAR institutions through Agricultural Scientists Recruitment Board/Universities.
- d. Paper setter/modulator for the discipline of Genetics of Agricultural Scientists Recruitment Board Examinations.
- e. On the panel of examiners for evaluation of Ph.D. thesis from University of Sydney, Australia.
- f. Representative of Vice-Chancellor, Punjab Technical University to approve running of Biotechnology degree programs in private colleges of Punjab. (2006-07).

5. Peer recognition after retirement:

- a. Member, Research Advisory Committee, Directorate of Wheat Research (ICAR) – National Wheat Program, (2008-2011).

- b. Member, Quinquennial Review Team constituted by Indian Council of Agricultural Research to review the working and progress of National Bureau of Plant Genetic Resources for 2002 - 2007.
- c. Member, Project Monitoring & Mentoring Committee for Wheat Biotechnology projects funded by DBT (2007-2010)
- d. Member, Broad Subject Matter Committee on Biotechnology/Genetics constituted by Indian Council of Agricultural Research to revise the course curriculum of M.Sc. and Ph.D. programs in Biotechnology for Indian Agricultural Universities (2008).
- e. Invitee to the Ministry of Agriculture, Federal Republic of Nigeria, to make a presentation and discuss Green Revolution in India. February 24 – March 3, 2008 and to prepare a feasibility report on cultivation of wheat and rice in Nigeria using Indian farm technologies.
- f. Member Central Compliance Committee of Department of Biotechnology, Ministry of Science & Technology, Government of India for monitoring Biosafety Level I compliance in conduct of transgenic crop trials by Seed Companies (2012).
- g. Member UGC committee to frame "Road map of Research at UGC" for next 10 years (2014)

6. Involvement in institution building at Central University of Punjab:

Actively participated in development of Central University of Punjab as member of core team of the Vice Chancellor. Established the Centres for Biosciences, Human Genetics and the Centre for Genetic Diseases and Molecular Medicine.