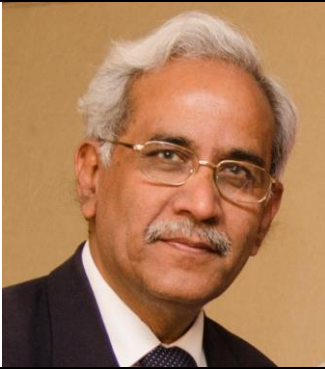




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B.Sc.		Meerut University			1974	
M.Sc.		Garhwal University			1976	
M.Phil.		Meerut University			1977	
Ph.D.		Delhi University			1983	
Career Profile						
<ul style="list-style-type: none"> • Professor, Department of Plant Molecular Biology, Delhi University, 1994 onwards • Post-Doctoral Fellow, University of Munich, 1990-1991 • Reader, Department of Plant Molecular Biology, Delhi University, 1988-1994 • Scientist, Unit for Plant Cell and Molecular Biology, Delhi University, 1987-1988. • Post-Doctoral Researcher, University of Duesseldorf/Munich, Germany, 1984-1986. • Scientist, Unit for Plant Cell and Molecular Biology, Delhi University, 1983-1984 						
Administrative Assignments						
<ul style="list-style-type: none"> • President, National Academy of Sciences, India (2015-2016) • President, Indian Society for Plant Physiology, New Delhi (2017-2018) • Vice-President, Indian National Science Academy (2010-2011) • General Secretary, National Academy of Sciences, India (2006-2009) • Vice-President, Society for Plant Biochemistry and Biotechnology, New Delhi, (1995-2005) • Chairman, DBT-UGC Task Force on Human Resource Development, Government of India (2003-2006) • Chairman, PAC Plant Sciences, DST (2007-2015) • Director, National Institute of Plant Genome Research, New Delhi (2009-2016) • Executive Director (Additional Charge), National Agri-food Biotechnology Institute, Mohali (2013-2016) • Director, Interdisciplinary Centre for Plant Genomics (ICPG), Delhi University, (2005- 						

<p>2009)</p> <ul style="list-style-type: none"> • Coordinator, Centre for Plant Molecular Biology, University of Delhi South Campus, New Delhi (1996-09), Indian Initiative for Rice Genome Sequencing (2000-05), Rice Functional Genomics Project (2004 onwards), Indian Initiative for Tomato Genome Sequencing (2005-11), Next Generation Challenge Program on Chickpea Genomics (2009-14), Team Leader for Centre of Excellence in Biotechnology (2007-13), Seed Biology Project (2013-onwards) • Chairman, Board of Research Studies, Faculty of Interdisciplinary and Applied Sciences, University of Delhi South Campus, New Delhi (1995-2003) • Head, Department of Plant Molecular Biology, University of Delhi South Campus, New Delhi (1988, 1992-1995, 1998-2001)
Areas of Interest / Specialization
Plant Biology: Genomics, Regulation Biology of Stress and Reproduction
Subjects Taught
Cell and Molecular Biology, Eukaryotic Gene Regulation
Research Guidance
Post-doctoral (19+ 3 ongoing), Ph.D. (24 +5 ongoing), M.Phil. (3), M.Sc. (22+2 ongoing), Short-term Trainee (45)
Publications Profile
<i>[Total publications (258) include publications in peer reviewed journals originating abroad (186) or in India (17) and publications in books or general articles/ others (55)]</i>
Publications in peer reviewed journals originating abroad
<ol style="list-style-type: none"> 1. Tyagi AK, Rashid A & Maheshwari SC. High frequency production of embryos in <i>Datura innoxia</i> from isolated pollen grains by combined cold treatment and serial culture of anthers in liquid medium. <i>Protoplasma</i> 99 (1979) 11-17. 2. Maheshwari SC, Tyagi AK, Malhotra K & Sopory SK. Induction of haploidy from pollen grains in angiosperms -- the current status. <i>Theor. Appl. Genet.</i> 58 (1980) 193-206. 3. Tyagi AK, Rashid A & Maheshwari SC. Enhancement of pollen embryo formation in <i>Datura innoxia</i> by charcoal. <i>Physiol. Plant.</i> 49 (1980) 296-298. 4. Tyagi AK, Rashid A & Maheshwari SC. Promotive effect of polyvinylpyrrolidone on pollen embryogenesis in <i>Datura innoxia</i>. <i>Physiol. Plant.</i> 53 (1981) 405-406. 5. Tyagi AK, Rashid A & Maheshwari SC. Sodium chloride resistant cell line from <i>Datura innoxia</i> Mill. -- a resistance trait carried from cell to plantlet and vice versa in vitro. <i>Protoplasma</i> 105 (1981) 327-332.

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258. Giri J & **Tyagi A**. Genetically engineered crops: India's path ahead. Nature India (Special Volume: Biotechnology – An agent for sustainable socio-economic transformation) pp 25-28. NPG India, Gurgaon.

Conference Organization/ Presentations (in the last three years)

- Patron and Chair, National Organizing Committee, 3rd International Plant Physiology Congress, New Delhi, 2015.
- Member, Organizing/Advisory/Scientific Committee 13/14th/15th International Rice Functional Genomics Symposium, 15/16/17
- Also served on Organising Committee of several National Conferences
- Delivered ~35 invited lectures in national/international organizations/conferences

Research Projects (Major Grants/Research Collaboration)

Note: Several of the following projects have been undertaken as Coordinator/ PI of Multi-lab institutional or multi-institutional projects

DST Project : Mechanism of light-regulated expression of photosynthesis related plastid genes in rice

RF Project : Targetted and high level of gene expression in transgenic and transplastomic rice

DBT Project : Non-Cellulosic polysaccharides of lesser known-millet and grain legumes and their physiological effects

DBT Project: Centre for Plant Molecular Biology Phase-I

DBT Project : Expression of antigenic determinants of *Vibrio cholerae* in tomato or tobacco and evaluation of their immunogenic potential

RF Project: Genetic transformation of rice and rice chloroplasts Phase-II

DBT Project : Functional genomics of rice to understand flower and seed

DBT Project : A novel gene OSISAP1 of rice and a method of introducing stress tolerances in plant system using the gene OSISAP1

DBT Project : Expression of ctxB, tcpA or acfA from *Vibrio cholerae* in tomato and evaluation of their immunogenic potential in model animal system

DBT Project : Indian Initiative for Rice Genome Sequencing – to identify genes/markers of agricultural importance

DBT Project : Development of ESTs, gene identification and transformation in sugarcane

DBT Project : Centre for Plant Molecular Biology II

DBT Project : The *Mycobacterium w.* genome program: Complete genome sequencing and comparative genomics

DBT Project : Indian Initiative on Tomato Genome Sequencing

DBT Project : Gene expression profiling during flower and seed development and functional validation of identified genes

DBT Project: Centre for Plant Molecular Biology III

DBT Project: DBT Centre of Excellence for development of high throughput approaches to understand molecular basis of heterosis in rice for precision breeding

DST Project: J.C.Bose fellowship

DBT Project : Functional analysisrice

DBT Project : Next generationchickpea genomics

DBT Project : Analysis of diversity.....in rice and chickpea

DBT Project: Centre for advanceddevelopmental biology

DBT Project : Functional characterization of genetic and epigenetic regulatory networks involved in the reproductive development in rice

Awards and Distinctions

Fellowships :

- Fellow, The World Academy of Sciences, Trieste, 2009.
- Fellow, Indian Academy of Sciences, Bangalore, 2004.
- Fellow, National Academy of Agricultural Sciences, New Delhi, 2001.
- Fellow, Indian National Science Academy, New Delhi, 1999.
- Fellow, National Academy of Sciences, India, Allahabad, 1998.
- Elected Member, Plant-Tissue Culture Association of India, 2001.

Awards :

- JC Bose National Fellowship Award, DST, Government of India, 2007-2022.
- SN Patnaik Memorial Lecture Award, Utkal University, Bhubneswar, 2016.
- APJ Abdul Kalam Lecture Award, Jiwaji University, Gwalior, 2016.
- TN Khoshoo Memorial Lecture Award, TOSI, 2015.
- Archana Sharma Memorial Lecture Award, WAST, 2014.
- SK Sinha Memorial Lecture Award, ISPP, 2013.
- Shri Ranjan Memorial Lecture Award, NASI, 2012.
- SK Mukherjee Commemoration Lecture Award, ISCA, 2012.
- Shri Om Prakash Bhasin Award for Science and Technology, 2011.
- NASI – Reliance Industries Platinum Jubilee Award, NASI, 2006.
- National Bioscience Award, DBT, Govt. of India, New Delhi, 1999.

- FC Steward Memorial Lecture Award, PTCA INDIA, 2010.
- BP Pal Memorial Award, ISCA, 2008.
- BN Chopra Lecture Award, INSA, 2007.
- Birbal Sahni Medal 2006, IBS, 2006.
- Platinum Jubilee Award Lecture, ISCA, 2006.
- B.P. Pal Memorial Award Lecture of NASI, 2005.
- Memento and Citation of the All India Congress of Cytology and Genetics, 2005.
- Y. Subbarow Memorial Lecture, IP University, New Delhi, 2005.
- International Year of Rice 2004 Research Accomplishment Award as part of IRGSP.
- The 2003 World Technology Award for Biotechnology (Corporate Division) as part of IRGSP, WTN, San Francisco, 2003.
- Sinha Memorial Lecture Award, Indian Botanical Society, 2002.
- SPIC Science Foundation Lecture Award, TNAU, Coimbatore, 1998.

International Distinctions :

- Co-Chair, Indo-US Joint Working Group (JWG) on Agriculture, 2016.
- Member, Advisory Board, Asian Federation of Biotechnology, RoK, 2015.
- Patron and Chair, National Organizing Committee, 3rd International Plant Physiology Congress, New Delhi, 2015.
- Co-Chair, BBSRC(UK)-DBT(India) Crop Genomics & Technologies Initiative Assessment Panel, 2014.
- Member, Membership Advisory Committee in Biological Systems and Organisms, The World Academy of Sciences, Italy, 2013-2018.
- Chairman, 11th Internatl Rice Functional Genomics Symposium Organizing Committee, 2013.
- Co-Organiser, Indo-German Symposium on Plant Biology, Indian National Science Academy and Science Academy of Germany, New Delhi, 2011.
- Co-Chair, International SOL Program, 2007-2009.
- Member, Scientific Advisory Group, EU-SOL Project, 2007-2009.
- Co-convenor, International Workshop on Tomato Genomics, 2006.
- Member, Organizing/Advisory/Scientific Committee of 5th International Rice Genetics Symposium and 2nd/3rd/4th/5th/9th/10th/11th/12th/13/14th/15th International Rice Functional Genomics Symposium, 2004/05/06/07/11/12/13/14/15/16/17.
- Co-convenor, International Satellite Conference on Chloroplasts : Development and Function, 2001.
- Indian Representative to International Tomato Genome Sequencing Project.
- Indian Representative to International Rice Genome Sequencing Project.
- Indian Representative to International Rice Functional Genomics Consortium.
- Member, Joint Advisory Committee, Indo-Swiss Collaboration in Biotechnology.
- Fellowship by FERRO, USDA, Government of USA, 1998.

Lectures :

- Delivered >250 invited lectures in India, Chaired 50 sessions in National Conferences.
- Delivered >50 lectures and chaired 20 sessions in international meetings.
- Taught Molecular Cell Biology, Regulation of Eukaryotic Gene Expression, Eukaryotic Gene Structure and Function to M.Sc./M.Phil. students.

Membership of Administrative/Scientific Management Committee:

- Chairman, Finance Committee, Biotech Park, Lucknow (2016-2019)
- Chairman, PMMC, GBPUAT, Pantnagar (2009-2012)
- Chairman, PMC of the DBT India-IRRI Network Programme, DBT (2011-2014)
- Chairman, PAMC for Multi-centric Network Projects, DBT (2011-2013)
- Co-Chairman, Task Force on Plant Biotechnology, DBT (2011-2014)
- Member (*ex-officio*), Central Advisory Board of Education, DHE, MHRD, GoI (2015-2016)
- Member (*ex-officio*), The Academic Council, University of Delhi, New Delhi (1988, 1992-95, 1998-2001, 2007-09)
- Member (*ex-officio*), The Court, University of Delhi, New Delhi (1992 onwards)
- Member (*ex-officio*), The Court, JNU, New Delhi (2009-2016)
- Member on Various Academic/Administrative/Review/Governing Committees of Delhi University and UGC
- Member, Sectoral Monitoring Committee, CSIR (2016 onwards)
- Member, Distinguished Fellows Selection Committee, SERB (2017)
- Member, Apex Committee for Plant Biotechnology and Allied Areas, DBT (2016-2019)
- Member, Promotions and Assessment Committee, IISc, Bangalore (2016-2018)
- Member, PMC on Solanaceae Genome Initiative, DBT, New Delhi (2015-2018)
- Member, SAC for DBT-IISc Partnership Program, DBT, New Delhi (2013-2018)
- Member, SAC for ILS, Bhubneshwar (2012-2018)
- Member, Governing Body, CIAB, Mohali (2012-2019)
- Member, Governing Board, SRI, Delhi (2014 onwards)
- Member (*ex-officio*), Board of Directors, Mohali Biotechnology Park, Mohali (2015-2016).
- Non-official Independent Director on Board, BIRAC, New Delhi (2017-2020).
- Member, School Board, SLS, CUR, Ajmer (2014-2017)
- Member, SAC, Bose Institute, Kolkata (2014-2017)
- Member, Research Board, MSSRF, Chennai (2014-2016)
- Member, Board of Governors, UNESCO Regional Biotechnology Centre, NCR Delhi, Faridabad (2011-2015)
- Member, Governing Body, Biotech Park, Lucknow (2011 onwards)
- Member, RAC, National Bureau of Plant Genetic Resources, New Delhi (2011-2014)
- Member, Standing Committee on RRI, JNU, New Delhi (2011-2013)
- Member, Patent Facilitation Committee, DBT, New Delhi (2011-2014)
- Member, Niche Area Committee for Vision 2025, DBT, New Delhi (2011)

- Member, Academic Council, IARI, New Delhi (2011-2013)
- Member, Expert Committee for Ramalingaswami Re-entry Fellowship, DBT (2010-2012)
- Member, Expert Committee for Tata Innovation Fellowship, DBT (2010-2012, 2014-2017).
- Member, Task Force on Bioinformatics, Computational and Systems Biology, DBT (2010-12, 2014-2017)
- Member, Society and Governing Body of NABI, Mohali (2010-2016)
- Member, Executive Council, Indian National Science Academy, New Delhi (2009-10)
- Member, Technical Advisory Committee (TAC) for CEIB, DBT (2009-12)
- Member, Fast Track Agri-Biotech Review & Approval Committee, DBT (2009-2011)
- Member, Steering Committee of National Bioresource Development Board, DBT (2007-12)
- Member, SERC, DST (2007-10)
- Member, SAC of NBRI, Lucknow ((2007-10)
- Member, Research Programme Committee, NAIP, ICAR, New Delhi (2006-09)
- Member, Life Sciences Research Development Board, DBT (2006-09)
- Member, GEAC, MOEF, Government of India (2006-09)
- Member, Biotechnology Research and Promotion Committee, DBT (2003-06)
- Member, Standing Committee, CSIR (2005-07)
- Member, Working Groups on “Biotechnology” and “Leveraging International Collaboration Inputs” of the Steering Committee on Science and Technology for the Formulation of Eleventh Five Year
- Member, Apex Committee, Program Support in High Priority Areas of Biology, Indian Institute of Science, Bangalore (1996-2007)
- Member, Task Force on Plant Biotechnology, Department of Biotechnology, New Delhi (1997 -2005)
- Member, Scientific Panel of Crop Sciences, Indian Council for Agricultural Research, New Delhi (1999-2002)
- Member, Scientific Advisory Committee, NIPGR, New Delhi (1999-2005, 2007-09)
- Member, Research Advisory Committee (1999-01) and Governing Council (2002-05), CDFD, Hyderabad
- Member, Academic Council, TERI-SAS, New Delhi (2000-03)
- Member, Research Advisory Committee, CTRI, Hyderabad (2001-04)
- Member, Research Advisory Committee, CIMAP, Lucknow (2001-04)
- Member, Research Advisory Committee, CSSRI, Karnal (2001-04)
- Member, Monitoring-cum-evaluation Committee, RCGM, DBT (2002-05)
- Member, Research Advisory Committee, NRC on Banana, Trichy (2003-06)
- Member, Task Force on Biotechnology, ICAR (2003-06)
- Member, Board of Management, IARI, New Delhi (2004-06)
- Member, Research Advisory Committee, IIHR, Bangalore (2004-07)
- Member, Programme Advisory Committee, Plant Sciences, DST (2004-07)
- Member, Advisory Committee of the Vth Phase of CAS, Calcutta University (2004-2009)

- Member, Executive Council, NASI, Allahabad (2005-06)
- Member, Research Advisory Committee, IISR, Ahmedabad (2005-07, 2010-12))
- Member, Research Advisory Committee (Biotechnology), SRI, New Delhi (2005-09)
- Member, Academic Committee, NCPGR (2005-07)
- Member, Committee on Bio-security and Bio-safety, DBT (2005-08)
- Member, Project Monitoring Committee on Solanaceae Genome Initiative, DBT (2005-10)
- Member, Scientific Advisory Committee on CMRTD, DBT (2002-08)
- Member, Scientific Advisory Committee on Bioresources, DBT (2005-08)
- Member, Faculty of Science, M S University, Udaipur (2003-06)
- Member, Advisory Committee of M.Sc. (Biotech) Program, CSKHPAU, Palampur (2005-08)
- Member, Scientific Panel on Horticulture, ICAR (2004-07)

Association With Professional Bodies

Associated with a large number national and international professional bodies

Other Activities

- Member, Editorial Board, Transgenic Research, 2000 onwards; MGG, 2007 onwards; Rice, 2008 onwards; International Journal of Plant Genomics, 2009 onwards; PeerJ 2012-2014; Journal of Plant Biochemistry and Biotechnology, 1992-2006, 2007 onwards; ISA of NISCAIR, ISA, 2011-2013, 2015-2017; Everyman's Science, ISCA, 2010-2013; PINSA 2002-2007; Indian Journal of Biotechnology, 2005-2007; Resonance, 2005-2007.