

University Faculty Details Page on DU Web-Site

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Title	Prof.	First Name	Akshay Kumar	Last Name	Pradhan	Photograph	
Designation		Professor					
Department		Department of Genetics					
Addres	s Office	Department of Genetics, University of Delhi South					
		Campus, Benito Juarez Road, New Delhi – 110021.					
Residence		1052, Joy Apartment, Plot No. 2, Sector 2, Dwarka Phase 1,					
		New Delhi – 110075.					
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Education Qualifications							
Subject		Institution Ve			aar		
		Rh D (Conoti	cc) Indian Agricultu	Iral Posoarch	1	1096	
Ph.D.		PII.D. (Geneti	u Dalhi	I al Research	1	960	
DC .		Institute, New Definit.			280		
PG		M.SC. (Plant Breeding & genetics), Orissa University of				980	
110		Agriculture & Technology, Bhubaneswar.			1 0 1 1	270	
UG		B.Sc. (Agriculture), Orissa University of Agriculture &			re&	1978	
Causau Dusfila		Technology, Bhubaneswar.					
Career Profile							
2002 – till date: Professor, Department of Genetics, University of Delhi, Delhi.							
1996 – 2002: Senior Research Scientist and Principal Scientist, National Dairy Development Board/DOFCO.							
1960 – 1990: Research Associate and Fellow, Tata Energy Research Institute (TERI), New Deini.							
Administrativa Assignments							
9th Constanting 2002 - 7th Contamber 2000, Lload Department of Constinue Linitianity of Dally							
o" september, 2005 – 7" september, 2006: Head, Department of Genetics, University of Deini.							
Areas of Interest / Specialization							
Plant Genetics and Molecular Plant Breeding.							

Subjects Taught

Post Graduate level

Population Genetics and Molecular Plant Breeding.

Research Guidance

Supervision of awarded Doctoral Thesis 8

Ramchiary, Nirala. 2007. Molecular mapping of yield components and seed glucosinolate traits in *Brassica juncea*. University of Delhi.

Padmaja K. Lakshmi. 2008. Genome mapping and molecular dissection of seed coat colour trait in *Brassica juncea*. University of Delhi.

Kumar, Amarendra. 2009. Molecular mapping of gene(s) conferring resistance to Alternaria blight (*Alternaria brassicae*) in *Arabidopsis thaliana*. University of Delhi.

Yadava Satish Kumar. 2010. Development of integrated map and QTL dissection of yield components in *Brassica juncea*. University of Delhi.

Rout, Kadambini. Genetic analysis of oil content and quality traits in *Brassica juncea*. University of Delhi.

Sharma, Manisha. 2015. Molecular cloning and isolation of the gene responsible for propyl glucosinolatein *Brassica juncea*.

Kajla, Sachin. Reduction of anti-feedant compound sinapine from the seeds of *Brassica juncea* through transgenic approach.

Dhaka, Namrata. Genetic dissection of some agronomically important traits with emphasis on seed size in *Brassica juncea*.

Supervision of Doctoral Thesis, under progress 4

Yadav, Balgovind. Genetic dissection of yield and oil parameters in Brassica species (16.11.2012).

Arora, Heena. Isolation of white rust resistance gene in *Brassica juncea* (17.12.2014)

Aakanksha. Dissection of QTL for yield heterosis in *Brassica juncea* (29.10.2015)

Mathur, Shikha. Identification of candidate gene(s) controlling seed weight QTL in *Brassica juncea* (16.08.2016)

Supervision of awarded M.Phil dissertations 2

Bhatia, Varnika. 2005. Process of gene introgression through backcross breeding: A case study in *Brassica juncea*. University of Delhi.

Vaishali, Anushila. 2006. Study of genetic diversity in *Brassica juncea* using gene-specific markers. University of Delhi

Publications Profile: 55

Research papers Published in Refereed/Peer Reviewed Journals

Sivasubramanian R, Akshay K. Pradhan, Deepak Pental, Jagreet Kaur (2017) Genome-wide association mapping in *Arabidopsis* identifies novel genes underlying quantitative disease resistance to *Alternaria brassicae*. Molecular Plant Pathology, doi: 10.1111/mpp.12654

Kajla S, Mukhopadhyay A, Pradhan A. K. (2017) Development of transgenic *Brassica juncea* lines for reduced 1 seed sinapine content by perturbing phenylpropanoid pathway genes. PLoS ONE 12(8): e0182747.

Sivasubramanian R, Amarendra Kumar, Vibha Gupta, Deepak Pental, Akshay K. Pradhan, Jagreet Kaur (2017) Genetic architecture of resistance to Alternaria brassicae in Arabidopsis thaliana: QTL mapping reveals two major resistance-conferring loci. Frontiers in Plant Science 8:260

Dhaka, N., Mukhopadhyay, A., Paritosh, K., Gupta, V., Pental, D., Pradhan, A. K. (2017) Identification of genic SSRs and construction of a SSR-based linkage map in *Brassica juncea*. Euphytica 213:15

He, Z., L. Wang., Harper A.L., Havlickova, L., Pradhan, A.K., Parkin, I.A.P. Bancroft, I. (2017) Extensive homoeologous genome exchanges in allopolyploid crops revealed by mRNAseq-based visualization. Plant Biotechnology J. 15:594 - 604

Dhaka, N., Rout, K., Yadava, S. K., Sodhi, Y. S., Gupta, V., Pental, D., Pradhan, A. K. (2017) Genetic dissection of seed weight by QTL analysis and detection of allelic variation in Indian and east European gene pool lines of *Brassica juncea*. Theor Appl. Genet. 130: 293 - 307

Sharma, M., Mukhopadhyay, A., Gupta, V., Pental, D., Pradhan, A. K. (2016) *BjuB.CYP79F1* regulates synthesis of propyl fraction of aliphatic glucosinolates in oilseed mustard *Brassica juncea*. PLoS One 11(2): e0150060

Bali, S., Mamgain, A., Raina, S. N., Yadava, S. K., Bhat, B., Das, S., Pradhan, A. K., Goel, S. (2015) Construction of a genetic linkage map and mapping of drought tolerance trait in Indian beveragial tea. Mol. Breeding 35:112

Bisht, N.C., Jagannath, A., Augustine, R., Burma, P.K., Pradhan, A.K., Pental, D. (2015) Effective restoration of male-sterile (barnase) lines requires overlapping and higher levels of barstar expression: A multi-generation field analysis in *Brassica juncea*. J. Plant Biochem. Biotech. 24:393 – 399

Rout, K., Sharma, M., Gupta, V., Mukhopadhyay, A., Sodhi, Y. S., Pental D., and Pradhan, A. K. (2015) Deciphering allelic variations for seed glucosinolate traits in oilseed mustard (*Brassica juncea*) using two bi-parental mapping populations. Theor. Appl. Genet. 128: 657 - 666

Meenu, Ausustine, R., Majee, M., Pradhan, A. K., Bisht, N. (2015) Genomic origin, expression differentiation and regulation of multiple genes encoding CYP83A1, a key enzyme for core glucosinolate biosynthesis, from the allotetraploid *Brassica juncea*. Planta 241: 651 - 665

Yadava, S. K., Paritosh, K., Panjabi-Massand, P., Gupta, V., Chandra, A., Sodhi, Y. S., Pradhan, A. K., Pental, D. (2014) Tetralocular ovary and high siliqua width in yellow sarson lines of *Brassica rapa* (subspecies *trilocularis*) are due to a mutation in Bra034340 gene, a homologue of *CLAVATA3* in Arabidopsis. Theor. Appl. Genet. 127: 2359 - 2369

Paritosh, K., Gupta, V., Yadava, S. K., Singh, P., Pradhan, A. K., Pental, D. (2014) RNA-seq based SNPs for mapping in *Brassica juncea* (AABB): Synteny analysis between the two constituent genomes A (from *B. rapa*) and B (from *B. nigra*) shows highly divergent gene block arrangement and unique block fragmentation patterns. BMC Genomics 15:396

Sarita Sharma, K Lakshmi Padmaja, Vibha Gupta, Kumar Paritosh, Akshay K Pradhan, Deepak Pental (2014) Two Plastid DNA Lineages—Rapa/Oleracea and Nigra—within the Tribe Brassiceae Can Be Best Explained by Reciprocal Crosses at Hexaploidy: Evidence from Divergence Times of the Plastid Genomes and R-Block Genes of the A and B Genomes of *Brassica juncea*. PloS One, 9 (4): e93260.

Padmaja, L. K., Agarwal, P., Gupta, V., Mukhopadhyay, A., Sodhi, Y. S., Pental, D., Pradhan, A. K. (2014) Natural mutations in the two homoeologous *TT8* genes control yellow seed coat trait in allotetraploid *Brassica juncea* (AABB). Theor. Appl Genet. 127: 339 - 347

Kumar P, Yadava, S. K., Gupta, V., Panjabi-Massand, P., Sodhi, Y. S., Pradhan, A. K. and Pental, D. (2013) RNA-seq based SNPs in some key oleiferous lines of *Brassica rapa* and their use for genome wide linkage mapping and specific-region fine mapping BMC Genomics, 14:463

Yadava, S. K., Arumugam, N., Mukhopadhyay, A., Sodhi, Y. S., Gupta, V., Pental, D., Pradhan, A. K. (2012) QTL mapping of yield associated traits in *Brassica juncea*: Meta-analysis and epistatic interactions using two different crosses between east European and Indian gene pool lines Theor. Appl. Genet. 125:1553-1564

Pradhan, A. K., Pental D. 2011. Genetics of *Brassica juncea*. In R. Schmidt and I. Bancroft (eds), Genetics and Genomics of the *Brassicaceae*. pp 323 – 345, Springer International

Jagannath, A., Sodhi, Y. S., Gupta, V., Mukhopadhyay, A., Arumugam, N., Singh, I., Rohtagi, S., Burma, P. K., Pradhan, A. K., Pental, D. (2011) Eliminating expression of erucic acid-encoding loci allows the identification of 'hidden' QTL contributing to oil quality fractions and oil content in *Brassica juncea* (indian mustard). Theor. Appl. Genet. 122:1019 - 1103

Panjabi-Massand, P, S K Yadava, P Sharma, A Kaur, A Kumar, N Arumugam, Y S Sodhi, A Mukhopadhyay, V Gupta, A K Pradhan and D Pental. 2010. Molecular mapping reveals two independent loci conferring resistance to Albugo candida in the east European germplasm of oilseed mustard *Brassica juncea* Theor. *Appl. Genet.* 121:137-145.

Bisht, N C, V Gupta, N Ramchiary, Y S Sodhi, A Mukhopadhyay, N Arumugam, D Pental and A K Pradhan. 2009. Fine mapping of loci involved with glucosinolate biosynthesis in oilseed mustard (*Brassica juncea*) using genomic information from allied species. *Theor. Appl. Genet.* 118: 413-421.

Panjabi, P, A Jagannath, N C Bisht, K Lakshmi Padmaja, S Sharma, V Gupta, A K Pradhan and D Pental. 2008. Comparative mapping of *Brassica juncea* and *Arabidopsis thaliana* using Intron Polymorphism (IP) markers: homeologous relationships, diversification and evolution of the A, B and C Brassica genomes. *BMC Genomics*. 9:113.

Ramchiary, N, N C Bisht, V Gupta, A Mukhopadhyay, N Arumugam, Y S Sodhi, D Pental and A K Pradhan. 2007. QTL analysis reveals context-dependent loci for seed glucosinolate trait in the oilseed *Brassica juncea*: Importance of recurrent selection backcross (RSB) scheme for the identification of 'true' QTL. *Theor. Appl. Genet.* 116: 77-85.

Ramchiary, N, K L Padmaja, S Sharma, V Gupta, Y S Sodhi, A Mukhopadhyay, N Arumugam, D Pental and A K Pradhan. 2007. Mapping of yoeld influencing QTL in Brassica juncea: Implications for breeding of major oilseed crop of dryland areas. *Theor. Appl. Genet.* 115: 807-817.

Arumugam, N, V Gupta, A Jagannath, A Mukhopadhyay, A K Pradhan, P K Burma and D Pental. 2007. A passage through *in vitro* culture leads to efficient production of true marker-free transgenic plants in *Brassica juncea* using the Cre-*loxP* system. *Transgenic Research.* 16: 703-712.

Bisht, N C, A Jagannath, P K Burma, A K Pradhan and D Pental. 2007. Retransformation of a male sterile barnase line with the barstar gene as an efficient alternative method to identify male sterile-restorer combinations for heterosis breeding. *Plant Cell Reports.* 26: 727-733.

Sodhi, Y S, A Chandra, J K Verma, N Arumugam, A Mukhopadhyay, V Gupta, D Pental and A K Pradhan. 2006. A new cytoplasmic male sterility system for hybrid seed propuduction in Indian oilseed mustard *Brassica juncea*. *Theor. Appl. Genet*. 114: 93-99.

Lakshmi Padmaja, K, N Arumugam, V Gupta, A Mukhopadhyay, Y S Sodhi, D Pental and A K Pradhan. 2005. Mapping and tagging of seed coat colour and identification of microsatellite markers for marker assisted manipulation of the trait in *Brassica juncea*. *Theor. Appl. Genet.* 111: 8-14.

Gupta, V, A Mukhopadhyay, N Arumugam, Y S Sodhi, D Pental and A K Pradhan. 2004. Molecular tagging of erucic acid trait in oilseed mustard (*Brassica juncea*) by QTL mapping and SNPs in FAE 1 gene. *Theor. Appl. Genet*. 108: 743-749.

Sivaraman, I, N Arumugam, Y S Sodhi, V Gupta, A Mukhopadhyay, A K Pradhan, P K Burma and D

Pental. 2004. Development of high oleic and low linolenic acid transgenics in a zero erucic acid *Brassica juncea* L. (Indian mustard) line by antisense suppression of the *fad2* gene. *Mol. Breeding.* 13: 365-375.

Srivastava, A, A Mukhopadhyay, N Arumugam, V Gupta, J K Verma, D Pental and A K Pradhan. 2004. Resynthesis of Brassica juncea (Czern) L. through interspecific crosses between *Brassica rapa* and *B. nigra*. *Plant Breeding*. 123: 204-206.

Pradhan, A K, V Gupta, A Mukhopadhyay, Y S Sodhi, N Arumugam and D Pental. 2003. A high-density linkage map in *Brassic juncea* using AFLP and RFLP markers. *Theor. Appl. Genet.* 106: 607-614.

Sodhi, Y S, A Mukhopadhyay, N Arumugam, J K Verma, V Gupta, D Pental and A K Pradhan. 2002. Inheritance pattern of total glucosinolate content in crosses involving a high glucosinolate Indian variety and a low glucosinolate line of *Brassica juncea*. *Plant Breeding*. 121: 508-511.

Jagannath, A, N Arumugam, V Gupta, A K Pradhan, P K Burma and D Pental. 2002. Development of transgenic *barstar* lines and identification of a male sterile (*barnase*) / restorer (*barstar*) combination for heterosis breeding in Indian oilseed mustard (*Brassica juncea*). *Curr. Sci.* 82: 46-52.

Arumugam, N, A Mukhopadhyay, V Gupta, Y S Sodhi, J K Verma, D Pental and A K Pradhan. 2002. Synthesis of somatic hybrids (RCBB) by fusing heat-tolerant *Raphanus sativus* (RR) and *Brassica oleracea* (CC) with *Brassica nigra* (BB). *Plant Breeding*. 121: 168-170.

Srivastava, A, V Gupta, D Pental and A K Pradhan. 2001. AFLP based genetic diversity assessment amongst agronomically important natural and some newly synthesized lines of *Brassica juncea*. *Theor. Appl. Genet.* 102: 193-199.

Verma, J K, Y S Sodhi, A Mukhopadhyay, N Arumugam, V Gupta, D Pental and A K Pradhan. 2000. Identification of stable maintainer and fertility restorer lines for 'Polima' CMS in *Brassica campestris*. *Plant Breeding*. 119: 90-92.

Arumugam, N, A Mukhopadhyay, V Gupta, Y S Sodhi, J K Verma, D Pental and A K Pradhan. 2000. Somatic cell hybridization of '*oxy*' CMS *Brassica juncea* with *B. oleracea* for correction of chlorosis and transfer of novel organelle combinations to alloteytaploid brassicas. *Theor. Appl. Genet.* 100: 1043-1049.

Chrungu, B, N Verma, A Mohanty, A K Pradhan and K R Shivanna. 1999. Production and characterization of interspecific hybrids between *Brassica maurarum* and crop brassicas. *Theor. Appl. Genet.* 98: 608-613.

Rao, G U, A K Pradhan and K R Shivanna. 1998. Isolation of useful variants in alloplasmic crop brassicas in the cytoplasmic background of *Erucastrum gallicum*. *Euphytica*. 103: 301-306.

Arumugam, N, A Mukhopadhyay, V Gupta, D Pental and A K Pradhan. 1996. Synthesis of hexaploid

(AABBCC) somatic hybrids: A bridging material for the transfer of 'tour' cytoplasmic male sterility to *Brassica* species. *Theor. Appl. Genet.* 92: 762-768.

Nagpal, R, S N Raina, Y S Sodhi, A Mukhopadhyay, N Arumugam, A K Pradhan and D Pental. 1996. Transfer of *Brassica tournefortii* (TT) genes to allotetraploid oilseed *Brassica* species (*B. juncea* AABB, *B. napus* AACC, *B. carinata* BBCC): Homoeologous pairing is more pronounced in the three genome hybrids (TACC, TBAA, TCAA, TCBB) as compared to diploids (TA, TB, TC). *Theor. Appl. Genet*. 92: 566-571.

Mukhopadhyay, A, N Arumugam, A K Pradhan, H N Murthy, B S Yadav, Y S Sodhi and D Pental. 1995. Somatic hybrids with substitution type genomic configuration TCBB for the transfer of nuclear and organelle genes from Brassica tournefortii TT to allotetraploid oilseed crop Brassica carinata. *Theor. Appl. Genet.* 89: 19-25.

Sodhi, Y S, A K Pradhan, J K Verma, N Arumugam, A Mukhopadhyay and D Pental. 1994. Identification and inheritance of fertility restorer genes for tour CMS in rapeseed (Brassica napus L). *Plant Breeding.* 112: 223-227.

Pradhan, A K, Y S Sodhi, A Mukhopadhyay and D Pental. 1993. Heterosis breeding in Indian mustard (*Brassica juncea* (L.) Czern & Coss): Analysis of component characters contributing to heterosis for yield. *Euphytica.* 69 : 219-229.

Pental, D, A K Pradhan, Y S Sodhi and A Mukhopadhyay. 1993. Variation amongst *Brassica juncea* cultivars for regeneration from hypocotyl explants and optimization of conditions for *Agrobacterium* mediated genetic transformation. *Plant Cell Reports.* 12: 462-467.

Sodhi, Y S, A K Pradhan, A Mukhopadhyay and D Pental. 1993. Identification of stable maintainer line for Polima cytoplasmic male sterility in rapeseed (*Brassica napus* L.). *Plant Breeding.* 110: 334-337.

Sodhi, Y S, A K Pradhan, A Mukhopadhyay and D Pental. 1993. Stability of ogura cytoplasmic male sterility in three Indian cultivars of radish (*Raphanus sativus*). *Indian J. Agric. Sciences.* 63: 421-422.

Pradhan, A K, S Prakash, A Mukhopadhyay and D Pental. 1992. Phylogeny of genus *Brassica* and allied genera based on diversity of chloroplast and mitochondrial DNA. *Theor. Appl. Genet.* 85: 331-340.

Mukhopadhyay, A, N Arumugam, P B A Nandakumar, A K Pradhan, V Gupta and D Pental. 1992. *Agrobacterium* mediated genetic transformation of oilseed *Brassica campestries*: Transformation frequency is strongly influenced by the mode of shoot regeneration. *Plant Cell Reports*. 11: 506-513.

Mukhopadhyay, A, R Topfer, A K Pradhan, Y S Sodhi, S S Steinbiss, J Schell and D Pental. 1991. Efficient regeneration of *Brassica oleracea* hypocotyl protoplasts and high frequency genetic transformation by direct DNA uptake. *Plant Cell Reports*. 10: 375-379.

Pradhan, A K, A Mukhopadhyay and D Pental. 1991. Identification of the putative cytoplasmic donor of a CMS system in *Brassica juncea*. *Plant Breeding*. 106: 204-208.

Mukhopadhyay, A, A K Pradhan, and D Pental. 1991. Mitochondrial DNA patterns are similar in gametosomatic and somatic hybrids of two *Nicotiana* species. *Plant Cell Reports*. 10: 522-524.

Pental, D, A K Pradhan and A Mukhopadhyay. 1989. Transmission of organelles in triploids produced by gameto-somatic fusions of two *Nicotiana* species. *Theor. Appl. Genet*. 78: 547-552.

Pental, D, A Mukhopadhyay, A Grover and A K Pradhan. 1988. A selection method for the synthesis of triploid hybrids by fusion of microspore protoplasts (n) with somatic cell protoplasts (2n). *Theor. Appl. Genet.* 76: 237-243.

Conference Organization/Presentations (in the last three years)

Research Projects (Major Grants/Research Collaboration)

Name of Project: Development of CMS/restorer lines in *Brassica* species for hybrid seed production and transfer of alternaria resistance from *B. carinata* to *B. juncea*.
Position in Project: Principal Investigator
Period: 1995-1996
Funding Agency: DBT
Grant: 35.0 lakhs

Name of Project: Tagging of fertility restorer genes for 'tour' cytoplasmic male sterility in *Brassica* napus with RAPD markers and their marker assisted transfer to *B. juncea*.
Position in Project: Principal Investigator
Period: 1995-1996
Funding Agency: DST
Grant: 12.0 lakhs

Name of Project: Investigations on cytoplasmic male sterility in *Brassica*.
Position in Project: Principal Investigator
Period: 1996
Funding Agency: Indo-French Centre for Promotion of Advanced Research.
Grant: 35.0 lakhs

Name of Project: Establishment of (a) Centre for Genetic Manipulation of Crop Plants (CGMCP) at the Department of Genetics, University of Delhi South Campus and (b) Research facilities at Mangolpuri for genetic engineering of oilseed mustard/rapeseed and selected vegetable crops

Position in Project: Co-Principal Investigator Period: 2001-2016 Funding Agency: NDDB/ MDFVPL Grant: 665.72 lakhs

Name of Project: Molecular mapping, tagging and development of high throughput DNA markers for some agronomically important traits in *Brassica juncea*.
Position in Project: Principal Investigator
Period: 2004-2010
Funding Agency: DBT
Grant: 66.01 lakhs

Name of Project: Tagging and marker assisted transfer of low glucosinolate trait in *Brassica juncea*. Position in Project: Project Co-ordinator Period: 2007-2010 Funding Agency: DBT Grant: 61.91 lakhs

Name of Project: Molecular mapping and isolation of gene(s) from Arabidopsis thaliana conferring resistance to fungal pathogen Alternaria brassicae causing alternaria blight disease in oilseed mustard (Brassica juncea).
 Position in Project: Co-Principal Investigator
 Period: 2006-2010
 Funding Agency: DBT
 Grant: 52.72 lakhs

Name of Project: Centre of Excellence on genome mapping and molecular breeding of Brassicas. Position in Project: Co-Team Leader Period: 2009-2013 Funding Agency: DBT Grant: 622.34 lakhs

Name of Project: Identification and manipulation of genetic factors involved in seed yield and oil content in rapeseed and mustard.
Position in Project: Principal Investigator
Period: 2009-2012
Funding Agency: DBT
Grant: 74.55 lakhs

Name of Project: To conduct confined field trials and biosafety studies on genetically engineered *Brassica juncea* (male sterility and restorer lines as pollination control mechanism) for heterosis breeding and yield improvement (under BIPP programme).
 Position in Project: Key Investigator
 Period: 2010-2016

Funding Agency: DBT Grant: 800.0 lakhs

Name of Project: Development of low sinapine mustard (*Brassica juncea*) through anti-sense and RNAi technology
Position in Project: Principal Investigator
Period: 2012-2016
Funding Agency: DBT
Grant: 49.55 lakhs

Name of Project: Diversification of canola quality traits to some Indian cultivars of *Brassica juncea* through marker-assisted backcross breeding (MAB)
Position in Project: Principal Investigator
Period: 2013-2017
Funding Agency: DBT
Grant: 64.43 lakhs

Name of Project: Broadening the genetic diversity underpinning seed quality and yield traits in mustrd rape and oilseed rape
Position in Project: Principal Investigator
Period: 2015-2018
Funding Agency: DBT
Grant: 101.43 lakhs

Name of Project: Centre of Excellence on genome mapping and molecular breeding of Brassicas (Phase II).

Position in Project: Co-Team Leader Period: 2015-2020 Funding Agency: DBT Grant: 487.88 lakhs

Name of Project: DBT-UDSC Partnership Centre on Genetic Manipulation of Brassicas Position in Project: Principal Investigator Period: 2016-2021 Funding Agency: DBT Grant: 1187.66 lakhs

Awards and Distinctions

Awarded Gold Medal for securing 1st Position in M.Sc.

Fellow of National Academy of Agricultural Sciences (FNAAS).

Fellow of National Academy of Sciences, Allahabad, India (FNASc)

Fellow Indian National Science Academy, New Delhi, India (FNA)

Association with Professional Bodies

Reviewing

Reviewer, BMC Genomics

Reviewer, Theoretical and Applied Genetics.

Reviewer, Plant Breeding.

Reviewer, Euphytica.

Reviewer, Genome.

Reviewer, Current Science.

Reviewer, Plant Cell Reports

Reviewer, Molecular Breeding

Reviewer, Plant molecular Biology

Reviewer, Plant Biotechnology Journal

Other Details

None

(Signature of Faculty Member)

(Signature & Stamp of Head of the Department)