

Resume of V. Dinesh Kumar

Designation: **Principal Scientist (Biotechnology)**
Department/Institute/University: **Indian Institute of Oilseeds Research,
Rajendranagar,
Hyderabad 500 030**

Date of Birth: **July 15, 1964.** Sex (M/F): **M**

Education (Post-Graduation onwards & Professional Career)

Sl No.	Institution Place	Degree Awarded	Year	Field of Study
1	University of Agricultural Sciences, GKVK, Bangalore 65	M. Sc (Agri)	1987	Genetics and Plant Breeding, Molecular Biology, Biochemistry
2	Indian Agricultural Research Institute, New Delhi 110 012	Ph. D	1994	Genetics, Molecular Biology, Biotechnology, Plant Breeding
3	Washington State University, Pullman, USA	BOYSCAST Fellowship	1999	Crop Biotechnology

Position and Employment (Starting with the most recent employment)

Sl No.	Institution Place	Position	From (Date)	To (date)
1	Indian Institute of Oilseeds Research, Hyderabad	Principal Scientist (Biotechnology)	October 16, 2008	Till date
2	Indian Institute of Oilseeds Research, Hyderabad	Senior Scientist (Biotechnology)	October 16, 2000	October 15, 2008
3	NRC on Plant Biotechnology, IARI, New Delhi	Senior Scientist (Selection Grade)	July 25, 1999	October 15, 2000
4	NRCPB, IARI, New Delhi	Scientist	July 1995	July 1999
5	NAARM, Rajendranagar, Hyderabad	Scientist – foundation course training	July 1994	July 1995

Honors/Awards

- Recipient of University Gold Medal and Muralidar Modaliyar Gold Medal for being top ranker in M. Sc(Agri)
- Recipient of Gold Medal from Karnataka Government for first rank in M.Sc (Agri)
- Recipient of CSIR Merit Certificate for becoming the top scorer in the UGC-CSIR joint examination during 1991
- Recipient of Jawaharlal Nehru award for best Ph.D research work for the year 1994
- Recipient of BOYSCAST Fellowship in Crop Biotechnology
- Top ranker in ARS examination twice in two different subjects (Genetics 1992 and Plant Breeding 1990)

Current research activities

At present engaged in development of transgenic plants in castor with tolerance to grey mold disease and involved in the de novo genome sequencing of safflower. Putative transgenic plants developed will be advanced further for characterization.

Projects being handled as PI	Main aim of the project and salient achievement
Optimization of regeneration and transformation protocols to realize grey mold resistant transgenic castor (<i>Ricinus communis</i> L.)	To develop reproducible and reliable protocol for transforming castor and use the multigene cassettes already developed for imparting tolerance to grey mold; Putative transgenic plants obtained through in planta transformation method.

Completed Research Projects

As Principal Investigator		
Sl No.	Title of Project	Main achievements under the project
1	“Deciphering the molecular mechanism of biotic stress tolerance induced by Trichoderma in castor” NASF Project completed in July 2017	Identified the Trichoderma strain that induced systemic resistance in castor, studied the process of ISR at biochemical, cellular and molecular level, identified the pathways affected during ISR using transcriptome and proteome approaches, identified the elicitor molecule that trigger ISR
2	Development of high oil Safflower by Multigene Engineering DBT Project completed in May 2012	Binary vector carrying two gene cassettes - Oleosin GPAT9- hsp terminator and Phaseolin-DAGAT1-phaselin terminator within the same T-DNA developed , Binary vectors with three single gene cassettes developed independently, Transgenic Arabidopsis plants developed with double gene as well as single gene cassettes and characterized. Safflower transformed with the developed constructs
3	Reduction of Toxic Endosperm proteins, Ricin and RCA, in Castor (<i>Ricinus communis</i> L.) through Post Transcriptional Gene Silencing Technologies DST Project completed in June 2010	To develop transgenic castor plant that will be devoid of ricin and RCA proteins so that the deoiled meal could be used as animal feed.
4	Molecular Genetic Analysis of Transgenic Male Sterile and Restorer Lines in Safflower (<i>Carthamus tinctorious</i> L.) DBT project completed in Dec 2010	Developed proof-of-concept that orfH522 gene from sunflower could be used for induction of male sterility in safflower
5	Validation of RNAi Constructs for Restoration of Fertility in Male Sterile Transgenic Tobacco plants as a prelude to their utilization in Safflower (<i>Carthamus tinctorious</i> L.) DBT Project completed in December 2010	Validation in tobacco has proven that ihp technology is more efficient in silencing orfH522 compared to SHUTR technology.
6	Genetic Engineering of male sterility and fertility restorer lines in safflower ICAR AP Cess Fund completed in 2006	Developed gene constructs for sterility induction and fertility restoration, established regeneration and transformation protocols in safflower, established proof-of-concept for the novel cell ablation systems

7	Development and validation of EST-SSR markers in safflower and castor – Institute Project	500 and 600 EST-SSR markers developed in castor and safflower respectively and used for hybrid purity assessment as well as for diversity studies These markers have been used in hybrid purity assessment as well as in other marker work
7	In silico identification of microRNA and their targets in safflower and castor using the EST database – Institute Project	Identified microRNAs and their targets in sunflower, safflower and castor using the EST as well as genomic sequence database.
8	“Genetic Enhancement through Biotechnological Approaches in Castor” - Institute project	Developed ricin and RCA silencing vectors and validated them. Developed multigene cassettes for obtaining Botrytis tolerant castor plants and validated them using tobacco as a model system. Developed about 600 EST-SSR markers in castor and used them in diversity studies as well as for establishing hybrid purity of public sector hybrids
As Co-Investigator		
1	Development of improved biocontrol agent for castor wilt management- Registration of potential biocontrol agent <i>T. viride</i> for commercialization APNL project completed in 2006	Identified a fungicide tolerant <i>Trichoderma viride</i> isolate Molecular characterization of different isolates of <i>T. viride</i>
2	Identification of serotypes of local isolates of Bt potent against castor semilooper, toxicity tests for registration and production technology transfer through micro-enterprise APNL project completed in 2006	Identified the serotypes of local isolates of Bt using Rep-PCR Isolated a novel cryIAb gene from the promising isolate DOR Bt-1 Cry gene profiling of selected local isolates of Bt
3	“Development of tissue culture and transformation protocols in sunflower as a prelude to developing transgenics resistant to Sunflower Necrosis virus DBT Project completed in Jan 2011	To develop tolerant sunflower varieties against sunflower necrosis disease using biotechnological approaches. Tissue culture protocols are being standardized and the vectors being constructed
4	Study of the effect of abiotic stresses on the natural enemies of crop pests: <i>Trichogramma</i> , <i>Chrysoperla</i> , <i>Trichoderma</i> and <i>Pseudomonas</i> , and mechanism of tolerance to these stresses NAIP Project completed in March 2014	Identified thermo tolerant <i>Trichoderma</i> strains and identified genes involved in heat stress tolerance through both proteomics and transcriptomics approaches.

Publications

Research Papers Published in International Journals:

Dinesh Kumar V, Kirti PB, Sachan JKS and Chopra VL (1994). Plant regeneration via somatic embryogenesis in chickpea (*Cicer arietinum L.*). ***Plant Cell Reports*, 13:468-472**

Dinesh Kumar V, Kirti PB, Sachan JKS and Chopra VL (1995). Picloram induced somatic embryogenesis in chickpea (*Cicer arietinum L.*). ***Plant Science*, 109:207-213**

Kirti PB, Baldev A, Gaikwad K, Bhat SR, **Dinesh Kumar V**, Prakash S and Chopra VL (1997). Introgression of a gene restoring fertility to CMS (*Trachystoma*) *Brassica juncea* and the genetics of restoration. ***Plant Breeding*, 116:259-262**

- Prakash S, Kirti PB, Bhat SR, Gaikwad K, **Dinesh Kumar V** and Chopra VL (1998). A *Moricandia arvensis* based cytoplasmic sterility and fertility restoration in *Brassica juncea*. *Theor. Appl. Genet.*, **97:488-492**
- Kirti PB, Prakash S, Gaikwad K, **Dinesh Kumar V**, Bhat SR and Chopra VL (1998). Chloroplast substitution overcomes leaf chlorosis in *Moricandia arvensis* based cytoplasmic male sterile *Brassica juncea*. *Theor. Appl. Genet.*, **97:1179-1182**.
- Mohapatra T, Kirti PB, **Dinesh Kumar V**, Prakash S and Chopra VL (1998). Random chloroplast segregation and mitochondrial gene recombination in somatic hybrids of *Diplotaxis catholica* + *Brassica juncea*. *Plant Cell Reports*, **17:814-818**
- Prakash S, Ahuja I, Upreti HC, **Dinesh Kumar V**, Bhat SR, Kirti PB and Chopra VL (2001). Expression of male sterility in alloplasmic *Brassica juncea* with *Erucastrum canariense* cytoplasm and the development of a fertility restoration system. *Plant Breeding*, **120: 479-482**
- Kirti PB, Bhat SR, **Dinesh Kumar V**, Prakash S and Chopra VL (2001). A simple protocol for regeneration of mesophyll protoplasts of vegetable *Brassicas*. *J. Plant Biochem and Biotechnol.*, **10:49-51**
- Sharma G, **Dinesh Kumar V**, Haque A, Bhat SR, Prakash S and Chopra VL (2002). *Brassica* coenospecies: A rich reservoir of genetic resistance to leaf spot caused by *Alternaria brassicae*. *Euphytica* **125:411-417**
- Pathania A, Bhat SR, **Dinesh Kumar V**, Ashutosh, Kirti PB, Prakash S and Chopra VL (2003). Cytoplasmic male sterility in alloplasmic *Brassica juncea* carrying *Diplotaxis catholica* cytoplasm: Molecular characterization and genetics of fertility restoration. *Theor. Appl. Genet.* **107(3):455-461**
- Mandaokar A, **Dinesh Kumar V**, Matt A and Browse JA (2003). Microarray and differential display identify genes involved in jasmonate-dependent anther development. *Plant Molecular Biology* **52: 775-786**
- Bhattacharya RC, Maheswari M, **Dinesh Kumar V**, Kirti PB, Bhat SR and Chopra VL (2004). Transformation of *Brassica oleracea* var. *capitata* with bacterial *betA* gene enhances tolerance to salt stress. *Scientia Horticulturae* **100: 215-227**
- Bhat SR, Prakash S, Kirti PB, **Dinesh Kumar V** and Chopra VL (2005). A unique introgression from *Moricandia arvensis* confers male fertility upon two different cytoplasmic male sterile lines of *Brassica juncea*. *Plant Breeding* **124(2):117-120**
- Ashutosh, Dwivedi KK, **Dinesh Kumar V**, Prakash S and Bhat SR (2005) rep-PCR helps to distinguish different cytoplasmic male sterile lines of *Brassica juncea*. *Plant Science* **168(4): 1083-1087**.
- Sujatha M and Dinesh Kumar V 2007. *In vitro* bud regeneration of *Carthamus tinctorius* and wild *Carthamus* species from leaf explants and axillary buds. *Biologia Plantarum* **51 (4): 782-786**
- Pathania A, Kumar R, **Dinesh Kumar V**, Ashutosh, Dwivedi KK, Kirti PB, Prakash S Chopra VL and Bhat SR (2007). A duplicated *coxI* gene is associated with cytoplasmic male sterility in alloplasmic *Brassica juncea* line derived from somatic hybridization with *Diplotaxis catholica*. *Journal of Genetics*, **86: 93-101**.

- Ashutosh, Pankaj Kumar, **Dinesh Kumar, V**, Prakash C. Sharma, Prakash S and. Bhat SR (2008). A Novel *orf108* Co-Transcribed with the *atpA* gene is Associated with Cytoplasmic Male Sterility in *Brassica juncea* carrying *Moricandia arvensis* Cytoplasm. ***Plant and Cell Physiology* 49 (2): 284-289**
- Yamini KN, **Dinesh Kumar V.**, Reddy SS (2008). RNA editing of the *nad3* and *atp9* transcripts in safflower (*Carthamus tinctorius* L). ***International Journal of Integrative Biology* 3(2): 143-149**
- Nizampatnam, NR, Harinath D, Yamini KN, Sujatha M and **Dinesh Kumar V** (2009). Expression of sunflower cytoplasmic male sterility-associated open reading frame, *orfH522* induces male sterility in transgenic tobacco plants. ***Planta* 229(4): 987-1001**
- Naresh V, Yamini KN, Rajendrakumar P and **Dinesh Kumar V** (2009) EST-SSR marker based assay for the genetic purity assessment of safflower hybrids. ***Euphytica* 170: 347-353**
- Shilpa KS, **Dinesh Kumar V** and Sujatha M. (2010). Agrobacterium-mediated genetic transformation of safflower (*Carthamus tinctorius* L.) ***Plant Cell Tiss Organ Cult* 103:387-401**(DOI 10.1007/s11240-010-9792-7)
- Swarnalatha Devi I , **Dinesh Kumar.V** , Ansari N.A and Sivasankar A (2010). Studies on the expression pattern of seed-specific napin promoter (BcNAI) in transgenic (*Nicotiana tabacum* L.) tobacco seeds. *International Journal of Environmental Science and Development*, Vol. 1: 20-23
- Nizampatnam NR and **Dinesh Kumar V.** (2011). Intron hairpin and transitive RNAi mediated silencing of *orfH522* transcripts restores male fertility in transgenic male sterile tobacco plants expressing *orfH522*. ***Plant Molecular Biology* 76:557–573** (DOI 10.1007/s11103-011-9789-6 Published on line May 17, 2011)
- Pranavi B, Sitaram G, Yamini KN and **Dinesh Kumar V.** (2011). Development of EST-SSR markers in castor bean (*Ricinus communis* L.) and their utilization for genetic purity testing of hybrids. ***Genome* 54: 684–691** (doi:10.1139/G11-033).
- Prathap Reddy, V, Narasimha Rao, N, Vimala Devi PS, Narasu ML and **Dinesh Kumar V.**, 2012. PCR-based detection of cry genes in local *Bacillus thuringiensis* DOR Bt-1 isolate. *Pest Technology*,6:79-82 Global Science Books
- Reddy VP, Rao NN, Vimala Devi PS, Narasu ML, Sivaramakrishnan S and **Dinesh Kumar V** (2013) Cloning, characterization and expression of a new *cryIAb* gene from DOR Bt-1, an indigenous isolate of *Bacillus thuringiensis*. ***Molecular Biotechnology*, 54, Issue 3, pp 795-802** Published online first on December 9, 2012 DOI 10.1007/s12033-012-9627-3
- Yamini KN, Ramesh K, Naresh V, Rajendrakumar P, Anjani K and **Dinesh Kumar V.** (2013). Development of EST-SSR markers and their utility in revealing cryptic diversity in safflower (*Carthamus tinctorius* L.). ***J. Plant Biochem. Biotechnol.* (Jan–June 2013) 22(1):90–102** (DOI 10.1007/s13562-012-0115-4)
- Dinesh Kumar V** and Nizampatnam NR (2013). Rep-PCR Identifies Both Inter- and Intra-Specific Mitochondrial Genome Differences in *Carthamus*. ***Plant Mol Biol Rep* 31:1150–1156** DOI 10.1007/s11105-013-0580-5

- Sowmya P, Prasad RD, Navaneetha T, **Dinesh Kumar V**, Sarada C (2014). Selection of high temperature and salinity tolerant *Trichoderma* isolates with antagonistic activity against *Sclerotium rolfsii*. *Springer Plus* 3: 641
- Srinivasan A, Yamini KN, Reddy SS and **Dinesh Kumar V** (2015). Tapetum specific expression of unedited nad3 gene from safflower and targeting the protein into mitochondria induces male sterility in transgenic tobacco plants. *Plant Cell Tiss. Organ Cult.*, **120:387–398** DOI 10.1007/s11240-014-0595-0
-

National Peer Reviewed Journals

- Hegde DM, Sujatha M and **Dinesh Kumar V** (2001). Biotechnology developments: Their scope for genetic improvement of oilseed crops. *Financing Agriculture*. **33(3): 15-19**.
- Hegde DM, **Dinesh Kumar V** and Sujatha M. (2003). Marker assisted selection and gene tagging in oilseed crops. *Botanica* **53:109-120**
- Hegde DM, Sujatha M and **Dinesh Kumar V** (2004). Role of Biotechnology in oilseeds. *Indian Farming December Issue: 13-18*
- Hegde DM, Ashfaq MA and **Dinesh Kumar V** (2005). Castor endosperm toxic protein, ricin : some insights and developments. *The Botanica* **55:61-73**
- Anusha Srinivasan, Wankhede, Dhammaprakash and **Dinesh Kumar, V.** 2009. Genetic purity assessment of sunflower hybrids using SCAR markers. *Journal of Oilseeds Research* **26: 202-205**.
- Arvind Kumar, Konda, Saikumar, K., Narasimha Rao, N. and **Dinesh Kumar, V.** 2009. Codon optimization and syntheses of an antifungal plant defense in RsAFP2 for expressing in castor, *Ricinus communis* L. *Journal of Oilseeds Research* **26: 210-213**.
- Ashfaq, Mohd Ashraf, Narasimha Rao, N., Kirti, P.B. and **Dinesh Kumar, V.** 2009. Isolation of ricin promoters from castor, *Ricinus communis* L. *Journal of Oilseeds Research* **26: 208-210**.
- Dinesh Kumar, V.** Haritha, B. Anusha, S. and Ashfaq, M.A. 2009. SCAR and RAPD markers for genetic purity assessment of sunflower hybrid DRSH 1. *Journal of Oilseeds Research* **26:192-194**.
- Durga Bhavani, K.B. and **Dinesh Kumar, V.** 2009. Molecular phylogentic relationship of *Botrytis ricini* with other *Botrytis* spp using house keeping gene sequences. *Journal of Oilseeds Research* **26:190-192**.
- Kanti Meena, Kumaraswamy, H.H., Lakshman Reddy, D.C., **Dinesh Kumar, V.** and Meena, D.K. 2009. Gamma linolenic acid (GLA) enhancement through genetic engineering in oilseed crops: A brief overview. *Journal of Oilseeds Research* **26:185-187**.
- Kumaraswamy, H.H., **Dinesh Kumar, V.**, Lakshmanareddy, D.C., Kanti Meena, Saikumar, K., Srikanth, V. and Madhu, B. 2009. Single cell oil: Can it be supplementary to plant oils in meeting the growing demand. *Journal of Oilseeds Research* **26:217-220**.
- Lakshmana Reddy, D.C., Kumaraswamy, H.H., Kanti Meena and **Dinesh Kumar, V.** 2009. Host-pathogen bargaining via molecular signals - A brief review. *Journal of Oilseeds Research* **26:181-183**.
- Madhu, B., Anusha, S., Kumaraswamy, H.H., Srikanth, V., Sujatha, M. and **Dinesh Kumar, V.** 2009. Genotypic effect on regeneration frequency in safflower. *Journal of Oilseeds Research* **26:183-185**.
- Narasimha Rao, N., Sujatha, M., Lakshmi Narasu and **Dinesh Kumar, V.** 2009. Establishment of regeneration and transformation protocols in safflower, *Carthamus tinctorius* L. *Journal of Oilseeds Research* **26:205-207**.
- Naresh, V., Yamini, K.N., Rajendrakumar, P., Ramesh, K. and **Dinesh Kumar, V.** 2009. EST-

- SSR marker-based assay for the genetic purity assessment of safflower hybrids. *Journal of Oilseeds Research* **26:197-199.**
- Pranavi, P., Anusha, S., Durga Bhavani and **Dinesh Kumar, V.** RAPD markers for genetic purity assessment of castor hybrids. *Journal of Oilseeds Research* **26:195-196.**
- Saikumar, K., Kumaraswamy, H.H. and **Dinesh Kumar, V.** 2009. Enemy of enemy: In silico designed amiRNAs to silence *ricin* genes in castor, *Ricinus communis* L. *Journal of Oilseeds Research* **26:188-190.**
- Soma Sekhar Reddy, P., Ashfaq, Mohd. Ashraf, Anil Kumar, Ch. and **Dinesh Kumar, V.** 2009. Development of transgenic tobacco model system as a prelude to identify the efficient PTGS technology for silencing ricin and RCA in castor, *Ricinus communis* L. *Journal of Oilseeds Research* **26:199-202.**
- Sri Shilpa, K., **Dinesh Kumar, V.** and Sujatha, M. 2009. Optimization of regeneration and transformation protocols in safflower, *Carthamus tinctorius* L. *Journal of Oilseeds Research* **26:170-172.**
- Srikanth, V., **Dinesh Kumar, V.** and Kumaraswamy, H.H. 2009. Assessment of genetic purity of castor hybrids using RAPD primers. *Journal of Oilseeds Research* **26:213-215.**
- Swarnalatha Devi, I. Ansari, N.A. and **Dinesh Kumar, V.** 2009. Isolation of seed-specific Napin promoter from *Brassica napus* and its expression in tobacco seed. *Journal of Oilseeds Research* **26:215-217.**
- Yamini, K.N., Harinath, D. and **Dinesh Kumar, V.** 2009. RNA editing of the *atp6* mitochondrial gene transcripts of sunflower, *Helianthus annuus* L. *Journal of Oilseeds Research* **26:222-224.**
- V.Srikanth, P.Pranavi and **V.Dinesh Kumar. (2010).** Use of RAPD markers to assess the genetic purity of castor hybrids. *Journal of Oilseeds Research*, **27: 1-4.**
- K.B. Durga Bhavani, Anusha Srinivasan, A. Venkatesh and **V. Dinesh Kumar (2010)** Development and validation of gene construct for inflorescence specific expression of *Ethylene Response Factor (ERF1)* from *Arabidopsis* for conferring *Botrytis* tolerance in castor. *Journal of Oilseeds Research*, **27: 4-6.**
- Pasula Soma sekhar Reddy, T. Srikanth Sharan and **V. Dinesh Kumar (2010).** Transgenic tobacco- as a model for identifying the most efficient PTGS technology at silencing ricin and RCA in castor, *Ricinus communis* L., *Journal of Oilseeds Research*, **27: 7-11.**
- Mohd Ashraf Ashfaq, P. Somasekhar Reddy, Ch. Anil Kumar, P.B Kirti and **V. Dinesh Kumar (2010).** Towards functional analysis of ricin Promoters. *Journal of Oilseeds Research*, **27: 12-14.**
- Konda Aravind Kumar, Narasimha Rao and **V.Dinesh Kumar. (2010).** Modification of ThEn42 gene for improved tolerance against *Botrytis* in castor. *Journal of Oilseeds Research*, **27: 15-17.**
- B. Pranavi, K.N. Yamini, G. Sitaram and **V. Dinesh Kumar (2010).** Development of EST-SSR markers in castor. *Journal of Oilseeds Research*, **27: 343-346.**
- Anjani K, Pallavi M, Prasad RD, **Dinesh Kumar V,** Madanmohan B and Janaki Ramayya P, 2012. Identification of RAPD markers flanked to Fusarium wilt resistant gene in safflower (*Carthamus tinctorius* L.). *Journal of Oilseeds Research*, **29: 4-6**
- Yamini KN, Narasimha Rao, N, Anusha S, Kalyani K, Sokka Reddy S, Sujatha M and **Dinesh Kumar V,** 2012. Induction of transgenic male sterility in safflower (*Carthamus tinctorius* L.). *Journal of Oilseeds Research*, **29: 88-93**
- Swarnalatha Devi I, **Dinesh Kumar V,** Ansari NA and Kalyani K, 2012. Studies on the expression pattern of CaMV 35S, napin and ricin promoters in the developing seeds of safflower (*Carthamus tinctorius* L.) via particle bombardment. *Journal of Oilseeds Research* **29: 102-105**
- Ch. Anil Kumar, Shanmugasundaram M, Durga Bhavani KB, Madhu B and **Dinesh Kumar, V,** 2012. Development of gene constructs for increasing seed oil content in safflower (*Carthamus tinctorius* L.). *Journal of Oilseeds Research* **29:143-147**

- Madhu B, Ch. Anil Kumar and **Dinesh Kumar V**, 2012. Development of micrografting technique for rescue of in vitro regenerants of safflower (*Carthamus tinctorius* L.). **Journal of Oilseeds Research** 29: 147-153
- Yamini KN, Ramesh K, Naresh V, Rajendrakumar P, Anjani K and **Dinesh Kumar V**, 2012. Development of EST-SSR markers and their utility in revealing cryptic diversity in safflower (*Carthamus tinctorius* L.). **Journal of Oilseeds Research** 29: 181-186.

Edited Books:

- Hegde DM, **Dinesh Kumar V**, Ramanjaneyulu GV and Pati D (2002). Safflower Research in India, Directorate of Oilseeds Research, Rajendranagar, Hyderabad pp96
- Hegde DM and **Dinesh Kumar V** (2003). Sunflower in India. Directorate of Oilseeds Research, Rajendranagar, Hyderabad pp 112.

Book Chapters:

- Hegde DM, Sujatha M, **Dinesh Kumar V** and Ashfaq MA (2006). Transgenic in oilseeds: Achievements and prospects. In: Plant Tissue Culture and Biotechnology Eds PC Trivedi, Pointer Publishers, Jaipur-302003 (Rajasthan), Pp46-104
- Sujatha M and **Dinesh Kumar V** (2007). Plant genetic transformation: Methods and emerging trends. In: Ashwani Kumar and Sudhir K. Sapory (Eds). Recent Advances in Biotechnology. IK International Pvt Ltd, pp. 16-35.
- Ashfaq MA, **Dinesh Kumar V** and Sujatha M (2007). Application of gene silencing in plants. In: Recent Advances in Plant Biotechnology and its Applications (eds:) Ashwani Kumar and Sudhir K. Sapory, IK International Pvt Ltd, pp.105-130.
- Yamini KN, **Dinesh Kumar V**, Narasimha Rao N and Hegde DM (2007). Transgenic male sterility: progress and prospects. In: Biotechnology and Food Security (ed) Trivedi PC, Pointer publishers, Jaipur, India pp. 128-163
- Bhat SR, **Dinesh Kumar V** and Puja R (2009). Transgenic oilseed crops: Progress and Prospects. In: Vegetable Oils Scenario: Approaches to meet the growing demands (ed DM Hegde). Indian Society of Oilseeds Research, Hyderabad. pp 95-114
- Dinesh Kumar V** and Mohd Ashaf Ashfaq (2010). "Ricin-Free Castor: Can it be a Reality?" In: Research and development in Castor: Present Status and Future Strategies (ed D.M Hegde). Indian Society of Oilseeds Research, Hyderabad pp. 69-90
- Dinesh Kumar V**, Yamini KN, Rao NN, Harinath D, Anusha S. and Sujatha M 2011. Prospects of engineering male sterility- fertility restoration system for exploiting hybrid vigour in safflower. In: Muralidharan, M and Siddiq EA (Ed.). Genomics and crop improvement: Relevance and reservations. Padma Publishers, Hyderabad, India Pp. 81-96
- V. Dinesh Kumar**. 2015. Advances in Molecular Markers for Variety Identification and Genetic Purity Testing. In Souvenir of the of the 8th National Seed Congress on "Quality Seed for Farmers' Prosperity" organized by organized by DAC, Telangana and DAC & FW, GoI during October 27-29, 2015 at Hyderabad.
- V. Dinesh Kumar** and Bhat SR. 2015. Brassica Biotechnology. In: Bhat SR (ed). Seeding Agricultural Biotechnology in India – A tribute to Prof. VL Chopra. ICAR-NRCPB, New Delhi 110 012 (40p) pp 21-34

Technical articles

- V. Dinesh Kumar and HH Kumaraswamy (2009). Genetic purity assessment of hybrids using molecular markers: A concept note. DOR Newsletter 15(4):1-3

HH Kumaraswamy and V. Dinesh Kumar (2009). Nanotechnology in oilseed sector. DOR Newsletter 15(2):1-4

Technical compilation (as co-compiler)

DOR 2009. Guidelines for quality seed production in sunflower.

DOR 2009. Guidelines for quality seed production in castor.

Souvenir article

Hegde DM and Dinesh Kumar V. 2010. Oilseed improvement: Status and strategies towards achievement of future breeding goals. Souvenir. Marching Towards Food-nutrition Secure India. Natl Symp. Genomics and Crop Improvement: Relevance and Reservations. February 25-27, 2010. Institute of Biotechnology, ANGRAU, Rajendranagar, Hyderabad 500 030 pp87-104

- **Presented many papers in International and national seminars or conferences**
- **Acted as resource person in many training programmes and delivered lectures**

(V. Dinesh Kumar)