

CURRICULUM VITAE**Dr. Vikrant Tyagi****Assistant Professor**

Dept. Genetics, Plant Breeding and Biotechnology

Eternal University, Baru sahib,

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**Academic Career:**

2013	Ph. D. (Plant Breeding and Genetics) Major Field: Plant Breeding Minor Filed: Botany (Plant Physiology) Oil Seed Section, Department of Plant Breeding and Genetics Punjab Agricultural University (P.A.U.), Ludhiana, Punjab, India Major Advisor: Dr. S. K. Dhillon	INSPIRE Fellow
	Thesis Title: Effect of Alien Cytoplasm on Heterosis and Combining Ability of Yield, Quality and Water Use Efficiency Traits in Sunflower (<i>Helianthus annuus L.</i>)	
2009	M. Phil. (Genetics and Plant Breeding) Ch. Charan Singh University (CCSU), Meerut, (U.P.), India Major Advisor: Prof. B. Ramesh	First Division Merit Certificate Gold Medalist
	Thesis Title: A Study on Genetic Variability, Heritability, Correlation and Genetic Divergence in Foxtail Millet (<i>Setaria italica (L.) P. Beauv.</i>)	
2008	M.Sc. (Genetics and Plant Breeding) Ch. Charan Singh University (CCSU), Meerut, (U.P.), India	First Division Merit Certificate
2006	B.Sc. (Agriculture) Honors Ch. Charan Singh University (CCSU), Meerut, (U.P.), India	First Division
2002	Higher Secondary-II Allahabad Board of Secondary Education, Allahabad, UP	Second Division
2000	High School Allahabad Board of Secondary Education, Allahabad, UP	Second Division

Research and Teaching Experience: (11 Years 08 Months)

- Assistant Professor (Feb. 2020 to till date) in the **Department of Genetics, Plant Breeding and Biotechnology at Eternal University**, Baru Sahib, Himachal Pradesh.
- Research Associate (RA) (Oct. 2017 to Dec. 2019): Worked in the Project **“Center of Excellence on Germplasm enhancement for crop architecture & defensive traits in Brassica juncea (L.) Czern & Coss, CSS-14 (PC-6139)”** at Punjab Agricultural University, Ludhiana, Punjab, India.
- Research Assistant (RA) (Sept. 2013 to Sept. 2017): Worked in the Project **“Breeding bread and durum wheat for high yield, quality and resistance to diseases in different agro-climates RDFS-73 (PC-1035.2)”** at Punjab Agricultural University, Regional Research Station, Kapurthala, Punjab, India.
- Three months DST funded research project (2009) entitled **“Physical Mapping of Simple Sequence Repeats (SSRs) in Bread Wheat”** in molecular biology laboratory, at Department of Genetics & Plant Breeding, C.C.S. University, Meerut, (U.P.), India.
- Three months DBT funded research project (2009) entitled **“Mobilization QTL/Genes for Quality Traits into High Yielding Wheat Varieties through Marker-Assisted Selection”** in molecular biology laboratory, at Department of Genetics & Plant Breeding, C.C.S. University, Meerut, (U.P.), India.

Honors / Awards: (08)

- ✓ Recipient of **Highest marks award Certificate in M. Sc/2008** for achieving highest merit in Genetics and Plant Breeding, Ch. Charan Singh University Campus, Meerut
- ✓ Recipient of **Highest marks award Certificate in M. Phil/2009** for achieving highest merit in Genetics and Plant Breeding, Ch. Charan Singh University Campus, Meerut
- ✓ Recipient of **GOLD MEDAL in M. Phil/2009** for achieving highest merit in Genetics and Plant Breeding, Ch. Charan Singh University Campus, Meerut
- ✓ Recipient of **SECOND PRIZE (2011) Poster Presentation in National Symposium in “Advances in Biotechnological research in Agri-Horticultural Crops for Sustaining Productivity Quality Improvements & Food Security”** College of Biotechnology, SVBPUAT, Meerut (U. P.) India.
- ✓ 2011 Awarded **INSPIRE Fellowship** (Department of Science and Technology, Ministry of Science and Technology, GoI) for the Ph. D. Programme.
- ✓ Recipient of **Thesis award in 2018 for Ph. D Thesis** from Society for Scientific Development in Agriculture and Technology, Meerut
- ✓ Recipient of **Best Research Scholar Award in 2018** from Agricultural Technology Development Society, Ghaziabad

- ✓ Recipient of **Appreciation Certificate in 2022 for member of organizing committee** in International Conference on “Water, Agriculture, Dairy and Food Processing for Sustainable Economy” from Eternal University, Baru Sahib.

Achievements of Research: (10)

- ✓ Associated in testing of {**INDIAN CANOLA QUALITY ('00')**} **Gobhi Sarson Hybrid PGSH-1707** that has been included in **package and practices of Rabi crops 2020**.
- ✓ Associated in testing of **Mustard Hybrids PHR-126** that has been included in **package and practices of Rabi crops 2019**.
- ✓ Associated in testing of **RCH-1 {FIRST INDIAN CANOLA QUALITY ('00') MUSTARD HYBRID}** that has been included in **package and practices of Rabi crops 2019**.
- ✓ Associated in testing of **Sunflower hybrid PSH 2080** that has been included in **package and practices of Kharif crops 2019**.
- ✓ Associated in testing of **new sugarcane variety CoPb 92 (Early)** for NWZ 2017.
- ✓ Associated in testing of **sugarcane variety CoPb 92 (early maturing)** for Punjab state and same has been included in the PAU, **package of practices for Kharif crops 2017**.
- ✓ Associated in testing of **sugarcane variety CoPb 93 (mid/late maturing)** for Punjab state and same has been included in the PAU, **package of practices for Kharif crops 2017**.
- ✓ Associated in testing of **sugarcane varieties Co 118 (Early)** that has been included in **package and practices of Kharif crops 2015**.
- ✓ Associated in testing of **sugarcane varieties Co 238 (Mid)** that has been included in **package and practices of Kharif crops 2015**.
- ✓ Associated in testing of **Sunflower hybrid PSH 1962** that has been included in **package and practices of Rabi crops 2015**.

Patent: (01)

1. Filled: “**BIOPESTICIDE FROM BT CROP BIOWASTE AND METHOD THEREOF**”
Patent Filling No.: 202211001586.

Refresher/Faculty Development Programme: (04)

1. Five Days Faculty Development Program on “**Data Analytics with R Programming**” from 12-09-2022 to 16-09-2022 organized by E & ICT Academy, IIT Kanpur.
2. 2-weeks Faculty Development Programme on “**Entrepreneurship (FEDP)**” from 03 to 17 August 2023, organized by the Institute's Innovation Council (IIC), School of Biomedical Sciences & School of Business, Galgotias University, Greater Noida, Uttar Pradesh.
3. 21 Days National Training-Cum-Workshop Program on “**Green Revolution: A Journey from Mexico to Bharat**” From 24 September to 14 October 2023 Organized by Hindustan Agricultural Research Welfare Society IIMT University, Meerut, Shri Krishna University (MP) and Supported By Sardar Patel University (MP) & ICAR-IISR.

4. 11 Days “**NEP 2020 Orientation & Sensitization Programme**” under University Grants Commission - Malaviya Mission Teacher Training Programme from July 16 to July 26, 2024. Organized by Sri Guru Tegh Bahadur Khalsa College, University of Delhi

Administrative & Committee work: (15)

- ✓ **Laboratory in-charge:** Setup the **New UG laboratory for the B. Sc. (Hons.) Agriculture** as per the ICAR in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Additional In-Charge:** Assigned additional charge of the UG Computer Science Laboratory for **B. Sc. (Hons.) Agriculture** at Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Farm Superintendent:** Assigned the role of Farm Superintendent at Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Curriculum Development:** The **new curriculum restructured for the M. Sc. (Genetics and Plant Breeding)** as per ICAR in the department of Genetics, Plant Breeding and Biotechnology, Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Syllabus Revision:** The revised syllabus for **B.Sc. (Hons.) Agriculture** has been prepared as per the **6th Deans’ Committee and NEP 2020** guidelines in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Maintain the Crop Germplasm** for both the crop season (*Kharif & Rabi*) at Research Farm of Eternal University, Baru Sahib.
- ✓ **Member of organizing committee** in International Conference on “Water, Agriculture, Dairy and Food Processing for Sustainable Economy (WADFPSE-2022)” from Eternal University, Baru Sahib.
- ✓ **Member of organizing committee** in Kisan mela at Eternal University, Baru Sahib.
- ✓ **Departmental Academic Committee:** Secretary, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Departmental Finance and Purchase Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Departmental Alumni Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Departmental Extension Activities Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **Departmental Research Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.

- ✓ **IQAC (AQAR) Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.
- ✓ **NAAC (SSR) Criterion III (Research, Innovation, and Extension) Committee:** Member, Department of Genetics, Plant Breeding and Biotechnology, in the Dr. Khem Singh Gill Akal College of Agriculture, Eternal University, Baru Sahib.

Student guided and supervised: (11)

Programme	Name	Completed	Title of Thesis
M. Sc.	1. Sakshi Koundal (BS19MSGPB003)	Completed	Genome wide genetic dissection of wheat yield and quality related traits in wheat germplasm
	2. Nidhi Devi (BS20MSGPB002)	Completed	Evaluation of Maize-Teosinte RIL population for banded leaf and sheath blight and agronomic traits
	3. Shivani Dhiman (BS21MGPB002)	Completed	Evaluation of maize genotypes for forage yield and quality
	4. Ankita Thakur (BS21MGPB003)	Completed	Genome-wide association mapping for yield and quality traits in Wheat- <i>aegilops</i> derivatives
	5. Karanveer Kaur (BS22MGPB001)	Completed	Screening of Teosinte derived maize lines against banded leaf sheath blight (BLSB) and yield traits
	6. Akshita Dhiman (BS22MGPB002)	Completed	Characterization of maize × Teosinte derived recombinant inbred lines (RILs) for maydis leaf blight (MLB) disease of maize
	7. Shivani Thakur (BS22MGPB003)	Completed	Identification of genomic region associated with grain Na and content in wheat- <i>Aegilops</i> derivatives using genome wide association mapping
	8. Akansha (BS22MGPB005)	Completed	Screening of gibberellic acid sensitive dwarf mutants from EMS induced <i>Triticum aestivum</i> cv. HD2967 mutant population
	9. Shivani Thakur (CAG-24-068)	Pursing	Assessment of Genetic Variation for Agro-Morphological and Yield-Related Traits in BC ₂ F ₃ Population Derived from <i>Aegilops</i> Species.
Ph. D.	1. Ramandeep Kaur (BS20PSBT002)	Thesis Submitted	Genetic dissection of powdery mildew resistance in bread wheat using genomics

 based approaches

2. Nidhi Devi (BS23PGPB001)	Pursing	Identification of Genomic Regions for Enhanced Micronutrients in Wheat- <i>Aegilops</i> Introgression Lines across Various Environments
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List of Publications:**A. Full Publications: (61)**

1. Devi N, Sharma V, Sheikh I, Chauhan P, Sharma P, Dhaliwal HS and **Tyagi V** (2025). Introgression of Banded Leaf and Sheath Blight (BLSB) Resistance from *Teosinte* to Maize Cultivar. Indian Journal of Ecology, 52(1), 107–113.
2. Kaur R, Ashmita A, Devi N, Tyagi V, Vikal Y and Sharma P (2024). Introgression profiling of F4 population derived from the cross of *Zea mays* × *Teosinte* spp. *Mexicana* using SSR markers. Plant Science Today, 12(1), 1–11.
3. Kaur H, **Tyagi V**, Kumar J, Roy JK, Chugh V, Ahmed N, Dhaliwal HS and Sheikh I (2024) Identification and pyramiding of iron and zinc homeostasis genes introgressed from non-progenitor *Aegilops* species to bread wheat. Euphytica 220, 167. **(NAAS rating 7.16/IF-1.6)**.
4. Kaur H, Sharma P, Kumar J, Singh VK, Vasistha NK, Gahlaut V, **Tyagi V**, Verma SK, Singh S, Dhaliwal HS and Sheikh I (2023) Genetic analysis of iron, zinc and grain yield in wheat-*Aegilops* derivatives using multi-locus GWAS. Mol Biol Rep. **(NAAS rating 8.74/IF-2.8)**.
5. Khan MA, Cowling WA, Banga SS, Barbetti MJ, Cantila AY, Amas JC, Thomas WJ, You MP, **Tyagi V**, Bharti B and Edwards D (2023) Genetic and molecular analysis of stem rot (*Sclerotinia sclerotiorum*) resistance in *Brassica napus* (canola type). Heliyon. **(NAAS rating 9.74/IF-4.0)**.
6. Thakur S, Kumar R, Singh B, Vikal Y, Dhaliwal HS, **Tyagi V** and Sheikh I (2023) Development of southern corn leaf blight (SCLB) resistant and high-popping volume composite popcorn using phenotypic and marker-assisted selection (MAS). Cereal Research Communications. **(NAAS rating 7.24/IF-1.6)**.
7. Saini P, **Tyagi V**, Ahmed N, Dhaliwal H. S. and Sheikh I (2022) Interaction of high molecular weight 1D glutenin subunit in durum wheat. International Journal of Food and Nutritional Sciences. **(NAAS rating 7.7/IF-1.525)**.
8. Kaur R, Kaur H, Saini P, Tyagi V, Ahmed N, Dhaliwal H.S., Sheikh I. (2022) Cytological, biochemical and molecular characterization of *Triticum-Aegilops* amphiploids. J. Plant Biochem. Biotechnol. **(NAAS rating 7.7/IF-1.525)**.
9. Saini P, Sheikh I, Saini DK, Mir RR, Dhaliwal HS and **Tyagi V** (2022) Consensus genomic regions associated with grain protein content in hexaploid and tetraploid wheat. Frontiers in Genetics. 13:1021180. **(NAAS rating 10.77/IF-4.77)**.
10. Negi R, Kaur T, Devi R, Kour D, Sheikh I, **Tyagi V**, Yadav AN (2022) First report on *Rahnella* sp. strain EU-A3SNfb, a plant growth promoting endophytic bacterium from wild

- wheat relative *Aegilops kotschy*. National Academy Science Letters, 45(5):393-6. (**NAAS rating 6.79/IF-0.79**).
11. Khan M A, Cowling W, Banga SS, You M P, **Tyagi V**, Bharti B and Barbetti MJ (2022) Quantitative Inheritance of *Sclerotinia* Stem Rot Resistance in *Brassica napus* and Relationship to Cotyledon and Leaf Resistances. Plant Disease, 106: 127-136. (**NAAS rating 10.44/IF-4.438**).
 12. ***Tyagi V**, Dhillon SK, Kaur G (2020) Gene action for oil content and quality in diverse cytoplasmic sources in sunflower under varied moisture environments. Helia, 43(73): 151–166 (**NAAS rating 6.42/IF-0.404**).
 13. Khan MA, Cowling W, Banga SS, You MP, **Tyagi V**, Bharti B, Barbetti MJ (2020) Inheritance of leaf resistance to *Sclerotinia sclerotiorum* in *Brassica napus* and its genetic correlation with cotyledon resistance. Euphytica, 216: 188 (**NAAS rating 7.9/IF-1.614**).
 14. ***Tyagi V**, Dhillon SK, Kaur G, Kaushik P (2020) Heterotic effect of different cytoplasmic combinations in sunflower hybrids cultivated under diverse irrigation regimes. Plants, (9): 465 (**NAAS rating 9.94/IF-3.94**).
 15. Khan MA, Cowling W, Banga SS, You MP, **Tyagi V**, Bharti B, Barbetti MJ (2020) Patterns of inheritance for cotyledon resistance against *Sclerotinia sclerotiorum* in *Brassica napus*. Euphytica, 216: 79 (**NAAS rating 7.9/IF-1.614**).
 16. Gill RK, Bindra S, **Tyagi V** (2020) Estimation of combining ability of blackgram [*Vigna mungo* (L.) Hepper] genotypes for grain yield and component traits. Agricultural Research Journal, 57(1): 18-22 (**NAAS rating 4.71/IF- _**).
 17. ***Tyagi V**, Dhillon SK, (2019) Water use efficient sunflower hybrids having diverse cytoplasmic background. Helia, 42(71): 187–201 (**NAAS rating 6.42/IF-0.404**).
 18. Chahal RK, Dhillon SK, Kandhola SS, Kaur G, Kaila V, **Tyagi V** (2019) Magnitude and nature of gene effects controlling oil content and quality components in sunflower (*Helianthus annuus* L.). Helia, 42(70): 73–84 (**NAAS rating 6.42/IF-0.404**).
 19. ***Tyagi V**, Dhillon SK, Kaushik P, Kaur G (2018) Characterization for drought tolerance and physiological efficiency in novel cytoplasmic male sterile sources of sunflower (*Helianthus annuus* L.). Agronomy, (8): 232 (**NAAS rating 9.42/IF-3.42**).
 20. ***Tyagi V**, Dhillon SK, Kaushik P (2018) Stability analysis of some novel cytoplasmic male sterile sources of sunflower and their hybrids. Helia, 41(69): 153–200 (**NAAS rating 6.42/IF-0.404**).
 21. ***Tyagi V**, Dhillon SK (2018) Performance and water-use efficiency of wild cytoplasmic sources in sunflower. Helia, 41(68): 129–140 (**NAAS rating 6.42/IF-0.404**).
 22. Sanghera GS, Singh RP, Singh O, **Tyagi V** (2018) Initiatives for sustainable sugarcane farming in punjab. Journal of Plant Science Research, 34(2) 137-152 (**NAAS rating 3.91/IF- _**).
 23. R K Gill, Kumar A, Singh I, **Tyagi V** (2017) Assessment of induced genetic variability in blackgram [*Vigna mungo* (L.) Hepper]. Journal of Food Legumes, 30(2): 31-34 (**NAAS rating 4.97/IF- _**).

24. Singh H, Sanghera GS, **Tyagi V**, Singh SP (2017) Evaluation of elite sugarcane clones/varieties against red rot disease (*Colletotrichum falcatum*) under differential water regimes. Indian Journal of Sugarcane Technology, 32(01): 20-24 (**NAAS rating 2.7/IF-**).
25. Sanghera GS, Singh H, **Tyagi V**, Singh RP, Kashyap L (2017) Association and path analysis among sugar yield and components under two water regimes in sugarcane (*Saccharum spp. complex*). Advances in Research, 11(4): 1-9 (**NAAS rating 4.8/IF-**).
26. Sanghera GS, Singh H, Singh RP, **Tyagi V** (2017) Interrelationship patterns among cane yield attributes and physiological traits in sugarcane under normal and water stress conditions. Journal of Experimental Agriculture International, 17(4): 1-11 (**NAAS rating 4.69/IF-**).
27. Sanghera GS, **Tyagi V**, Kashyap L, Singh RP (2017) Assessment of genetic variability, interrelationships among cane yield attributes in sugarcane (*Saccharum spp.*) under plant and ratoon crops. The Journal of Plant Science Research, 33(2): 127-138 (**NAAS rating 3.91/IF-**).
28. Sanghera GS, Thind KS, Singh N, Singh RP, **Tyagi V** (2017) Genotype x environment interactions and stability analysis for root yield and quality traits in sugarbeet (*Beta vulgaris* L.). Annals of Agricultural Research, 38(2): 235-241 (**NAAS rating 4.01/IF-**).
29. ***Tyagi V**, Dhillon SK (2017) Effect of alien cytoplasm on combining ability for earliness and seed yield in sunflower under irrigation and drought stress. Helia, 40(66): 71–83 (**NAAS rating 6.42/IF-0.404**).
30. Dhillon SK, Chandra P, Bajaj RK, **Tyagi V** (2017) Assessment of phenotypic divergence and association studies in sunflower (*Helianthus annuus* L.). Journal of Krishi Vigyan, 5(2): 8-14 (**NAAS rating 4.41/IF-**).
31. Kumar R, Sanghera GS, **Tyagi V**, Kashyap L, Singh RP, Sharma B (2017) Impact of borer incidence on cane yield and quality parameters in sugarcane (*Saccharum spp.* hybrid). Annals of Plant Protection Sciences, 25(1): 1-5 (**NAAS rating 4.82/IF-**).
32. Sanghera GS, Kashyap L, Kumar R, **Tyagi V**, Singh RP, Singh O, Thind KS, Kumar B (2016) 'CoPb 08212': a high yielding and early maturing sugarcane variety for North Western Zone of India. Indian Journal of Sugarcane Technology, 31(01): 10-15 (**NAAS rating 3.16/IF-**).
33. Sanghera GS, Kashyap L, **Tyagi V**, Singh RP, Sharma B (2016) Impact of date of sowing on manifestation of root yield and quality traits in sugarbeet (*Beta vulgaris* L.) under Punjab conditions. Indian Journal of Sugarcane Technology, 31(01): 23-28 (**NAAS rating 3.16/IF-**).
34. Sanghera GS, Kashyap L, Kumar R, Singh O, **Tyagi V**, Thind KS, Kumar B (2016) CoPb 08217- a promising mid maturing variety of sugarcane for Punjab. Journal of Plant Science and Research, 32(2) 165-171 (**NAAS rating 2.4/IF-**).
35. Sanghera GS, Singh RP, Kashyap L, **Tyagi V**, Sharma B (2016) Evaluation of sugarbeet genotypes (*Beta vulgaris* L.) for root yield and quality traits under subtropical conditions. Journal of Krishi Vigyan, 5(1): 67-73 (**NAAS rating 2.77/IF-**).
36. ***Tyagi V**, Dhillon SK (2016) Cytoplasmic effects on combining ability for agronomic traits in sunflower under different irrigation regimes. SABRAO Journal of Breeding and Genetics, 48(3): 295-308 (**NAAS rating 4/IF-**).

37. ***Tyagi V**, Dhillon SK (2016) Water-use-efficient cytoplasmic male sterility analogs in sunflower. *Journal of Crop Improvement.*, 30(5): 516-525 (**NAAS rating 5.12/IF-**).
38. Dhillon SK, **Tyagi V** (2016) Combining ability studies for development of new sunflower hybrids based on diverse cytoplasmic sources. *Helia*, 39(64): 71–80 (**NAAS rating 6.42/IF-0.404**).
39. Randhawa N, **Tyagi V**, Singh G (2015) Effect of water stress on nodule biomass, leghaemoglobin content and yield in chickpea genotypes. *Current Reports on Science and Technology*, 1(1): 71-82 (**NAAS rating /IF-**).
40. ***Tyagi V**, Dhillon SK, Gill BS (2015) Morphophysiological expression in cms analogues of sunflower (*Helianthus annuus* L.) under water stress environment. *Electronic Journal of Plant Breeding.*, 6(4): 1150-1156 (**NAAS rating 4.19/IF-**).
41. Kaushik P, Dhaliwal MS, Jindal SK, Srivastava A, **Tyagi V**, Brar NS, Rana MK (2015) Heterosis and leaf curl virus resistance in rainy season tomato under North Indian conditions. *African Journal of Agricultural Research.*, 10(29): 2763-2772 (**NAAS rating 4/IF-**).
42. Sanghera GS, Kumar R, **Tyagi V**, Thind KS, Sharma B (2015) Genetic divergence among elite sugarcane clones (*Saccharum officinarum* L.) based on cane yield and quality traits from Northern India. *Journal of Experimental Biology and Agricultural Science.*, 3(2): 184-190 (**NAAS rating 5.07/IF-**).
43. ***Tyagi V**, Dhillon SK (2015) Relationship between crop growth parameters and seed yield in cms analogues in sunflower. *Helia.*, 38(62): 109–120 (**NAAS rating 6.42/IF-0.404**).
44. ***Tyagi V**, Dhillon SK, Bajaj RK, Gupta S (2015) Phenotyping and genetic evaluation of sterile cms analogues in sunflower. *Bangladesh Journal of Botany*, 44(1): 23-30 (**NAAS rating 6.38/IF-**).
45. Sanghera GS, **Tyagi V**, Kumar R, Thind KS, Sharma B (2014) Genetic variability, association and their dissection through path analysis for cane yield and its component traits in early maturing sugarcane clones. *Journal of Science*, 5(1): 28-34 (**NAAS rating /IF-**).
46. Kumar D, **Tyagi V**, Ramesh B (2014) Path coefficient analysis for yield and its contributing traits in finger millet. *International Journal of Advanced Research.*, 2(8): 235-240 (**NAAS rating /IF-**).
47. Sanghera GS, **Tyagi V**, Kumar R, Thind KS (2014) Genetic variability for cane yield, earliness and quality traits in sugarcane under subtropical region of India. *International Journal of Current Research.*, 6(8): 7763-7765 (**NAAS rating /IF-**).
48. Shamshad M, Dhillon SK, **Tyagi V**, Akhtar J (2014) Assessment of genetic diversity in sunflower (*Helianthus annuus* L.) germplasm. *International Journal of Agriculture and Food Science Technology.*, 5(4): 267-272 (**NAAS rating /IF-**).
49. Goyal M, Gill BS, **Tyagi V** (2013) Effect of environment on grain yield, its components and quality characters in soybean [*Glycine max* (L.) Merrill]. *Indian Journal of Ecology*, 40(2): 264-267 (**NAAS rating 3.3/IF-**).
50. ***Tyagi V**, Dhillon SK, Bajaj RK, Kaur J (2013) Divergence and association studies in sunflower (*Helianthus annuus* L.). *Helia*, (58): 77-94 (**NAAS rating 6.42/IF-0.404**).

51. Tyagi SD, Sethi J, **Tyagi V** (2013) Assessment of genotype x environment interactions and stability analysis in soybean [*Glycine max* (L.) Merrill]. Indian Journal of Ecology, 40(2): 268-271 (**NAAS rating 3.3/IF-**).
52. Tyagi SD, Khan MH, **Tyagi V** (2013) Genetic divergence in lentil (*Lens culnaris Medik*) grown in eight environments. Research on Crops, 14(1): 126-129 (**NAAS rating 6.3/IF-**).
53. Tyagi SD, Sethi J, **Tyagi V** (2012) Genetic variability for seedling vigour traits and their association with seed yield and protein content in soybean [*Glycine max* (L.) Merrill]. Forage Research, 38(2): 96-101 (**NAAS rating 2.5/IF-**).
54. Dhillon SK, **Tyagi V**, Bajaj RK (2012) Mode of inheritance and combining ability for seed yield and components in sunflower (*Helianthus annuus* L.). Crop Improvement. (Special issue):, 349-350 (**NAAS rating 3.7/IF-**).
55. Bajaj RK, Dhillon SK, **Tyagi V** (2012) Magnitude of combining ability for autogamy in sunflower (*Helianthus annuus* L.). Crop Improvement. (Special issue):, 331-332 (**NAAS rating 3.7/IF-**).
56. ***Tyagi V**, Dhillon SK, Bajaj RK, Kaur G (2012) Combining ability for oil content and its association with other yield components in sunflower (*Helianthus annuus* L.). Crop Improvement. (Special issue):, 447-448 (**NAAS rating 3.7/IF-**).
57. Tyagi SD, Khan MH, **Tyagi V** (2012) Genetic divergence in soybean (*Glycine max* (L.) Merrill) grown in over environments. Indian Journal of Ecology, 39(2): 272-275 (**NAAS rating 3.3/IF-**).
58. Tyagi SD, Khan MH, **Tyagi V** (2012) Genotype x environment interaction for yield, protein and maturity duration in soybean (*Glycine max*). Crop Improvement, 39(1): 70-73 (**NAAS rating 3.7/IF-**).
59. ***Tyagi V**, Kumar D, Pal S, Ramesh B (2011) Genetic architecture of yield traits in foxtail millet (*Setaria italica* (L) P. Beauv.). Current Advances in Agricultural Sciences, 3(1): 29-32 (**NAAS rating 3.9/IF-**).
60. ***Tyagi V**, Pal S, Ramesh B (2011) Divergence analysis for important yield contributing characters in foxtail millet (*Setaria italica* (L) P. Beauv.). Environment and Ecology, 29(3B): 1568-1571 (**NAAS rating 2.2/IF-**).
61. Kumar D, **Tyagi V**, Ramesh B, Pal S (2010) Genetic diversity in finger millet (*Eleusine coracana*). Crop Improvement, 37(1): 25-28 (**NAAS rating 3.7/IF-**).

B. Review articles (02)

1. Sharma A, Saini P, Saini P, Tyagi V, Sharma S, Ahmed N, Dhaliwal HS, Sheikh I (2024) Root system architecture in cereals: exploring different perspectives of the hidden half. *Brazilian Journal of Botany*, 1-19. (**NAAS rating 7.4/IF-1.4**).
2. Saini P, Kaur H, **Tyagi V**, Saini P, Ahmed N, Dhaliwal HS, Sheikh I (2022) Nutritional value and end-use quality of durum wheat. *Cereal Research Communications*.19:1-12. (**NAAS rating 6.85/IF-0.85**).
3. Saini P, Kaur H, **Tyagi V**, Yadav AN, Saini P, Sharma V, Singh C, Dhaliwal HS, Sheikh I (2022) Genetic enhancement of nutritional and end-use quality in bread wheat through alien

introgressions from wild relatives. Cereal Research Communications, 16:1-20. (NAAS rating 6.85/IF-0.85).

C. Book Chapters: (04)

1. Kaur R, Devi N, Akanksha, Kaur K, Sheikh I and Tyagi V (2024). Speed Breeding: A Budding Technique to Improve Crop Plants for Multistress Tolerance. In Cutting Edge Technologies for Developing Future Crop Plants. Springer 155-179.
2. Katikalaa RK, Singh M, Atmakurua R, **Tyagi V**, Reddy AS (2021) Recent trends in bacterial enzymatic degradation and toxicity evaluations of organophosphorous pesticides. In: Viswanath B (Ed) Recent Developments in Applied Microbiology and Biochemistry. Academic Press, Elsevier. pp 231-239. <https://doi.org/10.1016/B978-0-12-821406-0.00021-7>.
3. Sanghera GS, Singh RP, **Tyagi V**, Thind KS (2017) Recent genomic approaches for sugarcane improvement: opportunities and challenges. In: Malik CP, Wani SH, Kushwaha HB, Kaur R (Eds) Quality and Quantum Improvement in Field Crops. AGROBIOS (INDIA), Jodhpur. pp 109-152.
4. **Tyagi V** and Dhillon SK (2014) Effect of different cms sources on oil content and quality of sunflower hybrids under different irrigation regimes. In: Mishra GC (Ed) Agriculture: Towards a New Paradigm of Sustainability. Excellent Publishing House, Kishangarh, Vasant Kunj, New Delhi. Pp 1: 285-289.

D. Full Paper in conferences: (02)

1. Sanghera GS, **Tyagi V**, Kumar R, Thind KS (2014) Selection indices for earliness, yield and quality traits in sugarcane for subtropical region of India. In proceeding: “**International Conference on Crop Productivity & Sustainability Shaping the Future**” Pp. 31-34.
2. ***Tyagi V**, Dhillon SK (2014) Impact of alien cytoplasm on phenological and yield traits under different irrigation environment in sunflower. In proceeding: “**International Conference on Crop Productivity & Sustainability Shaping the Future**” Pp. 18-19.

E. Short communications: (05)

1. Kumar R, Sanghera GS, **Tyagi V**, Sharma B, Thind KS (2014) Correlations among Borer Complex Incidence on Cane Yield and Quality Parameters in Sugarcane. In proceedings: “**National Symposium on Crop Improvement for Inclusive Sustainable Development**” Pp. 801 – 803.
2. Sanghera GS, **Tyagi V**, Kumar R, Thind KS, Sharma B (2014) Quality Parameters and Their Association with Cane Yield in Sugarcane under Subtropical Conditions. In proceedings: “**National Symposium on Crop Improvement for Inclusive Sustainable Development**” Pp. 796 – 798.
3. ***Tyagi V**, Dhillon SK (2014) Identification of water use efficient genotypes in sunflower. In proceedings: “**National Symposium on Crop Improvement for Inclusive Sustainable Development**” Pp. 296 – 298.

4. *Dhillon SK, **Tyagi V** (2014) Change in association pattern of characters under varied moisture regimes in sunflower (*Helianthus annuus* L.). In proceedings: “**National Symposium on Crop Improvement for Inclusive Sustainable Development**” Pp. 294 – 296.
5. Gill RK, **Tyagi V** (2014) Combining ability analysis for grain yield and component traits in ricebean. *Crop Improv.* **41 (1)**: 105-108.

F. Books/Manuals (edited/authored): (01)

1. Practical manual for hybrid seed production in sunflower “*Experiential Learning on Hybrid Seed Production in Sunflower*” by Dhillon SK, Sandhu SK, **Tyagi V**, Singh S. No. COA/2013/Manual 25.

G. Popular Articles: (03)

1. Kumar H, Gupta S, **Tyagi V** (2020) African sarson (*Brassica carinata* L.) an alternative oilseed crop under rainfed cultivation. *Indian Farmers’ Digest* 53(11): 7-10.
2. **Tyagi V**, Sanghera GS, Singh RP, Kashyap L (2017) Improved technological interventions for autumn sugarcane planting. *Indian Farming* 67(12): 12–15.
3. Kashyap L, **Tyagi V** and Kumar R (2017) Sugarcane crop management practices for higher yield and better sugar recovery.

H. Extension Publication: (01)

1. Leaf folder (**At a Glance**) for Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana Compiled by S. K. Sandhu and **Vikrant Tyagi (2012)**.

I. Extended Summary: (03)

1. Singh O, Sanghera GS, Singh RP, **Tyagi V** (2017) Interactive Effects of Planting Methods and Irrigation Schedules to Enhance Crop and Water Productivity in Sugarcane.
2. Sanghera GS, Singh H, Singh RP, **Tyagi V**, Thind KS (2017) Assessment of Agro-morphological and Physiological Characteristics Related to Drought Tolerance in Sugarcane (*Saccharum* spp. hybrid complex)
3. **Tyagi V**, Dhillon SK, Bajaj RK, Kaur J (2011) Effect of gibberellic acid on seed setting in maintainers of two different cytoplasmic male sterility sources in sunflower (*Helianthus annuus* L.). *Crop Improvement*. (Special issue): 67.

Abstracts in the proceedings of conferences/symposia: (33)

1. Devi R, Kaur T, Negi R, Kour D, Sheikh I, **Tyagi V**, Yadav AN (2022). Synergistic effect of microbial consortium of mineral solubilizing microbes on plant growth of oats (*Avena sativa*)

- growing in hilly region of Himachal Pradesh. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
2. Kaur T, Devi R, Negi R, Kour D, Sheikh I, **Tyagi V**, Yadav AN (2022). Plant growth promotion of foxtail millet (*Setaria Italica* L.) by novel and potential microbial consortium with multifunctional attributes. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
 3. Negi R, Kaur T, Devi R, Kour D, Sheikh I, **Tyagi V**, Yadav AN (2022). First report on Nitrogen fixing Endophytic Bacteria from Wild Wheat Relative *Aegilops Kotschi* and their role in plant growth promotion. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
 4. Saini P, kaur H, **Tyagi V**, Dhaliwal HS, Sheikh I (2022). 1AS. 1 DL and 1BS. 1 DL Translocation in Durum Wheat to improve its End-Use Quality. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
 5. Devi N, Sharma V, Sheikh I, **Tyagi V** (2022). Evaluation of Biparental Mapping Population for Southern Corn Leaf Blight (SCLB) in Maize. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
 6. Kaur H, Vasistha NK, Sharma P, Saini P, **Tyagi V**, Vikram P, Singh S, Verma SK, Dhaliwal HS, Sheikh I (2022). Multilocus Genome-Wide Association Analysis of Powdery Mildew Resistance in wheat – *Aegilops* derivatives. In proceeding: “*International conference on Water, Agriculture, Dairy and Food processing for sustainable Economy*” at Eternal University, Baru sahib from 25-26 March, 2022.
 7. Koundal S, Vashistha N K, Sheikh I, Kaur H, Saini P, **Tyagi V** (2021). Association among yield and quality parameters in wheat association mapping initiative (WAMI) panel of spring wheat (*Triticum aestivum* L.). In proceeding: “National Conference on Sustainability: Methods, Practices & Adaptation-Indian perspective” at Eternal University, Baru Sahib from 4-5 September, 2021.
 8. Kaur R, Kaur H, **Tyagi V**, Vashistha N, Dhaliwal H S and Sheikh I (2021). Cytological, biochemical and molecular characterization of *Triticum-aegilops* amphiploids. In proceeding: “National Conference on Sustainability: Methods, Practices & Adaptation-Indian perspective” at Eternal University, Baru Sahib from 4-5 September, 2021.
 9. Gulzar S Sanghera, Onkar Singh, Rupinder Pal Singh, **Vikrant Tyagi** and Paramjit Singh (2017) Technological farm practices for sustainable sugarcane production in Punjab and India. In proceeding: “Annual Convention (2017) and Technical Expo of North Indian Sugarcane and sugar Technologist Association” pp. 239.

10. Rajinder Kumar, Gulzar S. Sanghera, Paramjit Singh, Anuradha Sharma, **Vikrant Tyagi**, Rupinder Pal Singh and Lenika Kashyap (2017) Bioefficacy of new insecticides for themanagment of top borer (*Scirpopgaga excerptalis*) in sugarcane. In proceeding: “Annual Convention (2017) and Technical Expo of North Indian Sugarcane and sugar Technologist Association” pp. 153 -154
11. Anuradha Sharma, Rajinder Kumar, Gulzar S Sanghera, **Vikrant Tyagi**, Rupinder Pal Singh, Lenika Kashyap and Paramjit Singh (2017) Evaluation of advance early and mid maturing sugarcane clones against red rot (*Colletotrichum falcatum*) disease under Punjab conditions. In proceeding: “Annual Convention (2017) and Technical Expo of North Indian Sugarcane and sugar Technologist Association” pp. 148.
12. Kashyap L, Sanghera GS, Rajinder Kumar, **Vikrant Tyagi**, Anuradha Sharma, Rupinder pal Singh, Rajesh Kumar and Paramjit Singh (2017) Evaluation of elite sugarcane clones/varieties for quality traits grown under autumn and spring planting season. In proceeding: “Annual Convention (2017) and Technical Expo of North Indian Sugarcane and sugar Technologist Association” pp. 103 - 104.
13. Harmandeep Singh, Gulzar S Sanghera, Rupinder Pal Singh and **Vikrant Tyagi** (2017) Comparative performance of elite and ISH sugarcane clones under water stress and noon stress environments for cane yield and component traits. In proceeding: “Annual Convention (2017) and Technical Expo of North Indian Sugarcane and sugar Technologist Association” pp. 100.
14. G. S. Sanghera, **Vikrant Tyagi**, K. S. Thind and B. Sharma (2016) Evaluation of elite sugarcane clones for cane yield, quality and red rot resistance under subtropical conditions. Plant Disease Research 31 (2): 214.
15. Gulzar S Sanghera, **Vikrant Tyagi**, Rupinder Pal Singh, K S Thind and Bipen Kumar (2016) Identification of potential cross-combinations for cane yield and quality traits in sugarcane during early clonal stages. In proceeding: National Symposium on “Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change” pp. 35-36.
16. Rupinder Pal Singh, Gulzar S Sanghera, **Vikrant Tyagi**, Rajesh Kumar, K S Thind and Bipen Kumar (2016) Identification of promising clones in sugarcane based on simultaneous selection for yield and stability. In proceeding: National Symposium on “Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change” pp. 34-35.
17. Gulzar S Sanghera, Rupinder Pal Singh, Onkar Singh, **Vikrant Tyagi**, Rajinder Kumar, K S Thind and Bipen Kumar (2016) Role of varietal planning and technological interventions towards sustaining sugarcane productivity in Punjab. In proceeding: National Symposium on “Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change” pp. 20-21.
18. Anuradha Sharma, Gulzar S Sanghera, Rajinder Kumar, Lenika Kashyap, Rupinder Pal Singh, **Vikrant Tyagi**, Onkar Singh and Bipen Kumar (2016) Surveillance for varietal profile and important sugarcane diseases under Punjab conditions. In proceeding: National

- Symposium on “Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change” pp. 155.
19. L Kashyap, G S Sanghera, Rupinder pal Singh, **Vikrant Tyagi**, Rajinder Kumar, Anuradha Sharma, Arvind Kumar, Onkar Singh and B Kumar (2016) Comparative performance of elite sugarcane clones for cane yield and quality traits under plant and ratoon crops. In proceeding: National Symposium on “Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change” pp. 36-37.
 20. Gulzar S Sanghera, Rupinder Pal Singh and **Vikrant Tyagi** (2016) Exploring the roadmap for sugarcane improvement through non-conventional tools: An Indian Perspective. In proceeding: Recent Advances of In Silico Analysis: Role In Plant Stress Biology. Pp. 30-31.
 21. Rajinder Kumar, Gulzar S. Sanghera, **Vikrant Tyagi** and Bipen Sharma (2014) Prevalence of insect pests and bioagents in sugarcane agro-ecosystem under Punjab conditions. In proceeding: International Conference on “Changing Scenario of Pest Problems in Agri-Horti Ecosystem and their Management”. Pp. 46-47.
 22. **Vikrant Tyagi** and S. K. Dhillon (2014) Impact of different cytoplasmic sources on seed yield performance in sunflower. In proceeding: “2nd Annual National Conference” on Science: Emerging Scenario & Future Challenges –II
 23. **Vikrant Tyagi** and S. K. Dhillon (2014) Assessment of drought tolerance in sunflower hybrids. In proceeding: “International Conference on Crop Productivity & Sustainability Shaping the Future”. pp. 347.
 24. Mohd Shamshad, **Vikrant Tyagi** and S. K. Dhillon (2014) Estimation of drought susceptibility index in sunflower (*Helianthus annuus* L.) germplasm. In proceeding: “National Seminar on Plant Biotechnology: Challenges and Opportunities in 21st Century”. pp. 97.
 25. **Vikrant Tyagi**, S. K. Dhillon, Mohd Shamshad and Javed Akhtar (2014) Genetic diversity in sunflower (*Helianthus annuus* L.) germplasm under water stress environment. In proceeding: “National Seminar on Plant Biotechnology: Challenges and Opportunities in 21st Century”. pp. 98.
 26. **Vikrant Tyagi** and S. K. Dhillon (2014) Studies on response of sunflower inbred lines to water stress using various stress tolerance indices. In proceeding: “17th Punjab Science Congress” Science and technology for sustainable growth. pp. 119-120.
 27. Mohd Shamshad, S. K. Dhillon, **Vikrant Tyagi** and Sukhpreet Singh (2013) Studies on sunflower (*Helianthus annuus* L.) germplasm evaluation for drought tolerance. In proceeding: “Indraprastha International Conference on Biotechnology”. pp. 97.
 28. **Vikrant Tyagi**, Sukhpreet Singh, Mohd Shamshad and S. K. Dhillon (2013) Effect of moisture stress on correlations between yield and component traits in sunflower. In proceeding: “Indraprastha International Conference on Biotechnology”. pp. 96.

29. **Vikrant Tyagi**, S. K. Dhillon, Mohd Shamshad and Sukhpreet Singh (2013) Assessment of response of sunflower (*Helianthus annuus* L.) genotypes to water stress. In proceeding: "Indraprastha International Conference on Biotechnology". pp. 95.
30. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj, Jagmeet Kaur and Shilpa Gupta (2013). Diversity Analysis for Morpho-Physiological and Quality Traits in Sunflower (*Helianthus annuus* L.) National Conference on Innovative Approaches to Crop Improvement and adaptation: Meeting Challenges of Climate Change.
31. **Vikrant Tyagi**, S. K. Dhillon and R. K. Bajaj (2013) Combining Ability for Grain Yield in Sunflower (*Helianthus annuus* L.) First Annual National Conference of HSCA entitled "Science: Emerging Scenario and Future Challenges". pp. 21.
32. **Vikrant Tyagi**, S. K. Dhillon and R. K. Bajaj (2013). Estimates of heterosis for oil content in sunflower (*Helianthus annuus* L.) In proceeding: "16th Punjab Science Congress, Science for Health". pp. 72.
33. **Vikrant Tyagi**, S. K. Dhillon, Jagmeet Kaur and Shilpa Gupta (2013). Genetic divergence in alloplasmic cms lines in sunflower (*Helianthus annuus* L.) In proceeding: "16th Punjab Science Congress, Science for Health". pp. 40.
34. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj and Jagmeet Kaur (2013). Genetic evaluation of cms analogues in sunflower (*Helianthus annuus* L.). In proceeding: "100th Indian Science Congress" Science for Shaping the Future of India. pp. 108.
35. **Vikrant Tyagi**, S. K. Dhillon, R.K. Bajaj and Jagmeet Kaur (2013). Correlation studies for seed yield in sunflower (*Helianthus annuus* L.). In proceeding: "100th Indian Science Congress" Science for Shaping the Future of India. pp. 107.
36. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj and Jagmeet Kaur (2012). Association analysis for phenological and physiological traits in cms lines derived from different sources in sunflower (*Helianthus annuus* L.). In proceeding: "15th Punjab Science Congress" Science in the 21th Century. pp. 111.
37. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj and A. K. Atwal (2012). Relationship pattern among morphological and biochemical parameters in alloplasmic lines of sunflower (*Helianthus annuus* L.). In proceeding: "15th Punjab Science Congress" Science in the 21th Century. pp. 110.
38. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj and A. K. Atwal (2011). Biochemical composition of some alloplasmic cms line in sunflower (*Helianthus annuus* L.). In proceeding: National symposium in "Advances in Biotechnological research in Agri-Horticultural Crops for Sustaining Productivity Quality Improvements & Food Security" PP. 72.
39. **Vikrant Tyagi**, S. K. Dhillon, R. K. Bajaj and Jagmeet Kaur (2011). Evaluation of alloplasmic cms lines for morphological and physiological characters in sunflower (*Helianthus annuus* L.). In proceeding: National symposium in "Advances in Biotechnological research in Agri-Horticultural Crops for Sustaining Productivity Quality Improvements & Food Security" PP. 71.

Oral presentations in symposia/ conferences: (06)

1. **Vikrant Tyagi** and S. K. Dhillon (2014) Studies on response of sunflower inbred lines to water stress using various stress tolerance indices. In **“17th Punjab Science Congress”** Science and technology for sustainable growth. Organized by Punjab technical University, Kapurthala, Punjab, India.
2. **Vikrant Tyagi** and S. K. Dhillon (2014) Impact of alien cytoplasms on phenological and yield traits under different irrigation environment in sunflower. In **“International Conference On Crop Productivity & Sustainability Shaping The Future”**
3. **Vikrant Tyagi** and S. K. Dhillon (2014) Effect of different cms sources on oil content and quality of sunflower hybrids under different irrigation regimes. In, **International Congress on “Agriculture, Food Engineering and Environmental Sciences- Sustainable Approaches”**
4. **Vikrant Tyagi**, S. K. Dhillon, Jagmeet Kaur and Shilpa Gupta (2013). Genetic divergence in alloplasmic cms lines in sunflower (*Helianthus annuus* L.). In **“16th Punjab Science Congress, Science for Health”**. Organized by Baba Farid University of Health Sciences, Faridkot - 151 203, Punjab, India.
5. **Vikrant Tyagi**, S. K. Dhillon and R. K. Bajaj (2013). Combining ability for grain yield in sunflower (*Helianthus annuus* L.) First Annual National Conference of HSCA entitled **"Science: Emerging Scenario and Future Challenges"**.
6. **Vikrant Tyagi** and S. K. Dhillon (2013) Impact of different cytoplasmic sources on seed yield performance in sunflower. **“2nd Annual National Conference”** on Science: Emerging Scenario & Future Challenges –II

Conferences / Symposia/ Attended/Participated: (26)

S. N.	Date	Title/ Organized by
1	June, 03, 2024	“Millet Cultivation Workshop” at Eternal University, Baru Sahib
2	March, 09-10, 2024	International Conference on “Business and Society Interface: Contemporary Management Practices and Issues before India Inc. - Global & Indian Dimensions (BSICMP-2024)” at Eternal University, Baru Sahib
3	Feb., 27-29, 2024	National Symposium on “Genomics Revolution to Foster Advances and Innovations in Crop Improvement” Organized by Punjab Agricultural university, Ludhiana, Punjab, India.
4	March, 25-26, 2022	International Conference on Water, Agriculture, Dairy and Food Processing for Sustainable Economy at Eternal University, Baru Sahib

5	Sept., 04-05, 2021	National Conference on Sustainability: Methods, Practices & Adaptation-Indian perspective at Eternal University, Baru Sahib
6	July, 19, 2020	Webinar on "Awareness about Cancer among Females (The second largest killer in the world.)" organized by The Kalgidhar Society, Baru Sahib.
7	June, 26, 2020	World's largest Drug Awareness Webinar organized by The Kalgidhar Society, Baru Sahib.
8	October, 20-22, 2018	2 nd International Conference on "Advance in Agriculture, Biological and Applied Science for Sustainable Future" Organized by Agricultural Technology Development Society at Ghaziabad, U. P., India.
9	July, 19-20, 2018	International Conference on Plant Genetics and Genomics, "Next Gen Crops for Sustainable Agriculture" Organized by SELECTBIO at Chandigarh, India.
10	December, 21- 23, 2016	National Symposium on "Challenges, Opportunities and Innovative Approaches in sugarcane: Agriculture, Bio-energy and Climate Change" Organized by, U.P. Council of Sugarcane Research, Shahjahanpur, U.P.
11	October, 27 -28, 2016	UGC sponsored National conference on "Recent advance of In silico analysis: Role in plant stress biology" Organized by, Lyallpur Khalsa College, Jalandhar
12	Nov., 07-09, 2014	"National Symposium on Crop Improvement for Inclusive Sustainable Development" Organized by, Punjab Agricultural University, Ludhiana, Punjab
13	March, 29-30, 2014	"Agricultural, Food Engineering and Environmental Sciences-Sustainable Approaches" Organized by "Krishi Sanskriti" Jawaharlal Nehru University, New Delhi
14	March, 20-21, 2014	"International Conference on Crop Productivity and Sustainability, Shaping the Future" Organized by Baba Farid College, Bathinda
15	March, 03-04, 2014	"National Seminar on Plant Biotechnology: Challenges and Opportunities in 21st Century" Organized by Department of Biotechnology, Faculty of Science, Jamia Hamdard, New Delhi, India.
16	February, 14-16, 2014	"17th Punjab Science Congress" Science and technology for sustainable growth. Organized by Punjab Technical University, Kaputhala, Punjab, India.
17	October, 15-17, 2013	"National Seminar on Sugarcane" Organized by Punjab Agricultural University, Ludhiana and National Federation of Cooperative Sugar Factories Ltd., New Delhi, India at PAU, Ludhiana.
18	March,	1 st Annual national conference on "Science: Emerging Scenario & Future

	08-10, 2013	Challenges” Organized by Him Science Congress Association Solan, Himachal Pradesh, India.
19	February, 07-09, 2013	“16th Punjab Science Congress” science for health. Organized by Baba Farid University of Health Sciences, Faridkot, Punjab, India.
20	January, 03-07, 2013	Centenary session of the “Indian Science Congress” science for shaping the future of India. Organized by Calcutta University, Kolkata, West Bengal, India.
21	November, 27- 29, 2012	International Conference “Sustainable Agriculture for Food and Livelihood Security” . Organized by Punjab Agricultural university, Ludhiana, Punjab, India. (Sponsored by the crop improvement society of India).
22	February, 07-09, 2012	“15th Punjab Science Congress” science in the 21th Century. Organized by Guru Nanak Dev University, Amritsar, Punjab, India.
23	September, 14-16, 2011	National symposium in “Advances in Biotechnological research in Agri-Horticultural Crops for Sustaining Productivity Quality Improvements & Food Security” . Organized by centre of excellence in agriculture biotechnology, Department of Biochemistry & Physiology, College of Biotechnology, SVBPUAT, Meerut (U. P.) India.
24	February, 06-08, 2011	An international conference “Preparing Agriculture for Climate Change” (sponsored by the crop improvement society of India). Organized by Department of Plant Breeding & Genetics, PAU, Ludhiana, Punjab, India
25	February, 14-16, 2009	Indo-Chinese Bilateral Workshop on “Plant Genomics and Quantitative Genetics” . Organized by Department of Genetics and Plant Breeding. C.C.S. University, Meerut, India.
26	February, 26–28, 2007	An international symposium on “Molecular Basis of Plant Breeding” (sponsored by DST, India). Organized by Department of Genetics & Plant Breeding, C.C.S. University, Meerut, U P, India.

Membership/ Fellowship of Scientific bodies: (02)

- **Life Member of flowing societies:**

- (i) The Indian Science Congress Association (ISCA), Kolkata, India.
- (ii) Crop Improvement Society of India (CISI), Ludhiana, India.

Summer Institutes/Workshops attended/Special Training received:

- Indo-Chinese Bilateral Workshop on **“Plant Genomics and Quantitative Genetics”** February 14-16, 2009, at Department of Genetics and Plant Breeding. C.C.S. University, Meerut, India.

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Declaration:

I hereby declare that all the above information is true to the best of my knowledge and belief.

Date:

Place: Hapur

Signature
(Vikrant Tyagi)