Nagoo, S.A.

CURRICULUM VITAE

Dr. Shahina Ahmad Nagoo

Jawahar Pora Narbal, Budgam 193401,J&K, India
Email-shahinanagoo.sn@gmail.com cell.No. 9622830988

Assistant Professor/ Junior Scientist, (SKUAST-K)

- **Expertise** in handling important crop SAFFRON especially quality germplasm Improvement and enhancement
- **Expertise** in conducting various crops.
- **Knowledge** of various breeding procedures applicable in crop improvement.
- **Effective** communication & Motivation skills to deal with farmers.
- **Expertise** in implementing different technical & scientific programmes.

Regular Service Details

S No.	Period From	To	Place of Employment	Designation	Scale of Pay
1	31-12-2009	31-12-2013	Saffron Research Station.	Jr. Scientist/Assistant Professor	15600-39100 (6000)
2	01-01-2014	15-11-2017	Saffron Research Station Pampore.	Jr. Scientist/Assistant Professor	15600-39100 (7000)
3	16-11-2017	23-11-2018	Faculty of Agriculture, Wadura Sopore.	Jr. Scientist/Assistant Professor	15600-39100 (7000)
4	24-11-2018	Till date	College of temperate sericulture, Mirgund	Assistant Professor(senior scale)	15600-39100(8000)

Parameters of scholarly excellence

Degree	**Subject**	**Class %**	**Year**	**University**	**Remarks**
B.Sc. Agriculture	All Agricultural Subjects	Ist 78.20%	1999	SKUAST-Kashmir	7th Position
M.Sc. Agriculture	Plant Breeding & Genetics	Ist 4.0/4.0 (90 %)	2004	SKUAST-Kashmir	Ist position in the batch
Ph.D Agriculture	Plant Breeding & Genetics	8.74/10.0 (87.30%)	2009	SKUAST-Kashmir	Merit Certificate

Research Title of Ph. D. Thesis

"Development of Haploids Through Anther Culture in *Brassica spp.*"

Research Title of M. Sc. Thesis

"Line x Tester Analysis in Indian Mustard"

Fellowships, Honors and Awards

- ✓ ***Best Poster Presentation Awarad*** *by Govet Degree College Nawakadal Kashmir during 3rd JK Women Science Congress. (Nov. 17th – 19th, 2015).*
- ✓ ***Scientist of the year Award-2020*** *during International Conference "Emerging Innovations and Advancements in Biological Sciences" conducted by Department of Biotechnology and Microbiology, Kalp, Laboratories-The Bouquet Society, Mathura-India (July, 25th – 27th, 2020).*
- ✓ ***Ist Poster Position Award*** *during International Conference "Emerging Innovations and Advancements in Biological Sciences" conducted by Department of Biotechnology and Microbiology, Kalp, Laboratories-The Bouquet Society, Mathura-India (July, 25th – 27th, 2020).*
- ✓ ***Research Excellence Award-2020*** *by Institution of Scholars (INSc.) Benglore-India.*
- ✓ ***Young Plant Breeder Award-2021-*** *during International Conference* ***"****Advances Tools and Techniques in Agriculture, Horticulture, Environmental & Biotechnological Science in Current Era" by Department of Biotechnology and Microbiology, Kalp, Laboratories-The Bouquet Society, Mathura-India (July, 3rd – 4th, 2021).*

Technical expertise

- ✓ Expertise in handling important crop SAFFRON especially quality germplasm Improvement and enhancement
- ✓ Expertise in conducting various crops.
- ✓ Knowledge of various breeding procedures applicable in crop improvement.
- ✓ Effective communication & Motivation skills to deal with farmers.
- ✓ Expertise in implementing different technical & scientific programs.
- ✓ Proficiency for contributing towards research publications, presentations and technical reports.
- ✓ Expertise in maintenance, evaluation, characterization and enrichment of wild and improved rice/maize genotypes as well as other breeding material.

Work experience

S No.	Period From	To	Place of Posting	Designation	Scale of Pay
1	31-12-2009	31-12-2013	Saffron Research Station, Pampore	Jr. Scientist/Assistant Professor	15600-39100 (6000)
2	01-01-2014	15-11-2017	Saffron Research Station Pampore	Jr. Scientist/Assistant Professor	15600-39100 (7000)
3	16-11-2017	23-11-2018	Faculty of Agriculture, Wadura Sopore	Jr. Scientist/Assistant Professor	15600-39100 (7000)
4	24-11-2018	Till date	College of temperate sericulture, Mirgund	Assistant Professor(senior scale)	15600-9100 (8000)

Assignments carrying out at SKUAST-K

- Development of good practice for enhancing saffron under high density plantation in J&K
- Expansion of Saffron in non- traditional areas of J&K
- Saffron improvement, utilizing indigenous germplasm resources of SKUAST-K
- Development of high yield population of 13 elite lines designated as Shalimar Saffron-1
- Managing multiple experiments and research studies in the field of plant breeding and germplasm conservation especially in Saffron.
- Associated with the evaluation and characterization of Saffron, Oilseed, wheat and Mulberry germplasm accessions.
- Associated with the teaching and research guidance of UG, PG and Ph. D students of the University.
- Preparing training materials and acting as a resource person in various trainings.

External projects handled

Name of the Project	Period	Cost (Lacs)	Source of Funds	PI/Co--PI & Status
A Value Chain on Kashmir Saffron	2009 to 2014	301	PIU NAIP (ICAR)	Completed as CoPI

Economic Revival of J&K Saffron Sector under National Mission on Saffron	2010-2018	532.01	Ministry of Agriculture	Completed as Co-PI
Farmers Participatory crop Breeding For strengthening Local seed systems RA	2013-2017	20.00	RKVY	Completed as Co-PI

Divisional/Departmental projects/Activity

Name of the Project	**PI/** Co-PI
Induction of mutation in saffron	Co-PI
To understand crop growth process and yield management under stress of weather vagaries	
Studies on nursery management in saffron	Co-PI
Refinement and on farm testing of Agronomic manipulations, soil physical condition management, energy management and biotic stress management for enhancing saffron productivity under high density production system module through input use efficiency.	Co-PI
To standardise post-harvest handling and value addition of saffron under high density production system module using efficient drying and package technology.	Co-PI
To evolve appropriate extension, training and communication methodologies for accelerating transfer of technology and to create avenues for market linkage on dynamic basis to enable better returns to stake holders across the supply chain.	Co-PI
Studies on irrigation scheduling, developing and evaluating appropriate formulations of bio fertilisers/bio control agents and other alternative sources of organic nutrients suitable for organic saffron and investigation the role of micro nutrients under high density plantation.	Co-PI
Saffron improvement through introduction of exotic germplasm resources From Iran, Spain, Greece, Turkey, Morocco, Italy, Azerbaijan and utilising indigenous germplasm resources of SKUAST-K.	Co-PI
Standardisation of cost effective invitro protocols for corm production and stigma like structure.	Co-PI
Validation and refinement of technologies for identification of potential areas for saffron in non-traditional areas of Jammu and Kashmir.	Co-PI

Post-Harvest management and value addition of saffron.	Co-PI
Extending shelf life of stigmas and styles to inhibit or delay the degeneration of crocin and saffranal.	Co-PI
Impact of high planting density on saffron yield under varying planting geometry.	Co-PI
Saffron diversification in traditional/non-traditional areas and partnership building.	Co-PI
Evolve appropriate extension, raining and communication methodologies for accelerating transfer of technology.	Co-PI
Standardisation of packing material, storage period/conditions for different saffron grades.	Co-PI
Develop transplanting module for saffron corm	Co-PI
Develop GAP for soil physical condition management	Co-PI
Standardise cost effective planting geometry and nutrient management system for yield gains under high density using mixed corm grades	Co-PI

Mentorship as Guide or Co-Guide of Post Graduate Students

S. No.	**Title of Thesis**	**Name**	**Ph. D/M. Sc.**	**Status**	**Year**
1.	Agro morphological Characterization and genetic divergence studies in Rice (*Oryza sativa* L.)	Mohd. Rafiq Rather	M. Sc. (GPB)	Major Advisor	2015
2.	Genetic Studies of Wheat germplasm under temperate conditions.	Wajahat	M. Sc. (GPB)	Major Advisor	2017
3.	Genetic Studies of Oil Seed Germplasm (*Brassica napus*).	Tehmina Bano	M. Sc. (SST)	Major Advisor	2018
4.	Characterization of Oil Seed Germplasm (*Brassica campestris*) as per DUS Traits.	Aazima Hyder	M. Sc. (SST)	Co - Advisor	2018
5.	Characterization studies in mulberry (*Morus spp*.) germplasm under temperate conditions.	Shaista Nissar	M. Sc. (Sericulture)	Major Advisor	2019
6.	Studies on bioactive compounds of mulberry and their antioxidant potential.	Lubna Altaf	M. Sc. (Sericulture)	Co-Advisor	2019
7.	Natural variation in Cowpea (*Vigna unguiculata* L. Walp.) for Yield, Pod Shattering and	Zulkafal Saifullah	M. Sc. (GPB)	Major Advisor	2020

	Resistance to Cowpea Mosaic Virus (CPMV).				

Publication Details

➢ Research Papers/ Review Articles in NAAS Rated Journals	80
➢ Popular Articles	01
➢ Lectures Delivered	20
➢ Book chapters	14
➢ Papers in Conferences' Proceedings	50
➢ Abstracts	100
➢ Extension Folders	05

List of Notable Publications

Full Length Research Publications

- ✓ M. A. Khan, Sabeena Nasseer, **Shaheena Nagoo** and F.A. Nehvi. 2011. Behaviour of Saffron (Crocus sativus L.) Corms for Daughter Corm Production. *Journal of Phytology* 3: 47- 49.
- ✓ A. Khan, **Shaheena Nagoo**, Sabeena Naseer, F.A. Nehvi and S. M. Zargar. 2011. Induced Mutation as a Tool for Improving Corm Multiplication in Saffron (Crocus sativus L.). *Journal of Phytology* 7 : 8 - 10.
- ✓ Gowhar Ali, Asif M Iqbal, F.A.Nehvi. ,Sheikh Sameer, **Shaheena Nagoo**, Sabeena Naseer and Niyaz Ahmad Dar. 2013. Prospects of Clonal Selection for enhancing productivity in saffron. *African Journal of Agriculture Research*. 85 : 464 – 67.
- ✓ Gowhar Ali, Z A Dar, I Ahmad, Ajaz A Lone, S A Dar, Mehfuza Habib, A B Shikari and **S A Nagoo** (2014) Combining Ability studies over Environments in High Altitude Elite Inbredlines of Maize (*Zea mays* L.). *International Journal of Agriculture Innovations and Research* 2(6):1108-1113.
- ✓ Sabina Nasseer, **Shahina A. Nagoo** and Niyaz A. Dar. 2016. Influence of weight of Saffron (*Crocus sativus* L.) corm on Daughter corm production. ***International Journal of Tropical Agriculture***. 34 (2): 459- 461.
- ✓ Asif M.Iqba**l**, S. Najeeb,Asif B. Shikari, Gul Zaffar, Sabina Nasseer, **Shahina A. Nagoo**, Aziz Mutaba, ZA Dar, G Ali, I Abidi, M A Ganai and G A Parray. 2017. Participatory Varietal Selection in rapeseed- mustard. *Journal of Oilseed Brassica*, 8(2): 201-206.
- ✓ Asif M.Iqba**l**, S. Najeeb,Asif Bashir Shikari, Gul Zaffar, Ashaq Hussain, Sabina Nasseer, **Shahina A. Nagoo**,MA Bhat, M.A. Ganai, Abu Manzar,ZA Bhat, Aziz Mutaba, ZA Dar, G Ali, Ishfaq Abidi and G A Parray. 2017. Participatory Varietal Selection in Oilseed Brassicas under temperate conditions of Kashmir. *Cruciferae Newsletter* Vol No. 36.

- ✓ Sabina Nasseer**, ShahinaA. Nagoo**, Niyaz A. Dar, Shabir Ahmad, Ishfaq A Abidi, Gowhar Ali, Sabia and F.A,Nehvi. 2018. High Density in Saffron (*Crocus sativus* L) for Achieving Higher Yields. *International Journal of Current Microbiology and Applied Sciences* 7(5):748-750.
- ✓ **Shahina A. Nagoo,** Gul Zaffar, Sabina Nasseer, Niyaz A. Dar, Sabia Bashir, M. Altaf Wani and Shabina Majid. 2018. Regeneration of haploids in Oilseed Through Embryonic Microspore. *International Journal of Current Microbiology and Applied Sciences* 7(6): 3336- 3339.
- ✓ Sabina Nasseer, **Shahina A. Nagoo**, Sabia Bashir, Seerat u Nisa, Bilal A. Wani, Khalid Rehman , Mehfuza Habib and Zahoor A. Dar. 2018. Dus Characterisation in Maize (*Zea mays L*.). *International Journal of Current Microbiology and Applied Sciences* 7(7):4274-4277.
- ✓ **Shahina.A.Nagoo**, Gul Zaffer, Sabina Nasseer, N.A.Dar. 2018. Development of Haploids and Double Haploids in Oil Seed through Anther Culture. *International Journal of Science and Research* 7 (5): 1234-1236.
- ✓ Asima gazal, F. A. Nehvi, Ajaz Ahmad Lone, Zhoor Ahmad Dar, S. Nasseer and S. Nagoo 2018. Studies on genetic diversity for seedling root parameters in maize. Electronic Journal of Plant Breeding 9(2): 650-660.
- ✓ Sabiya Bashir,Mohammed Najeeb Mughal,Seeratun Nissa,Zahoor A.Dar,S.A.Hakeem,Shabeena Majid, **ShaheenaA.Nagoo** and Sabeena Naseer. 2018. Efficacy of some funjicides and bio-control agents against tuber rot (Fusarium oxysporoum) of Kalazeera (Bunium persicum). *International Journal of Science and Research* 7(7):3752-3757.
- ✓ **Shahina A Nagoo,** Z. I Buhroo, Iqra Rafiq, Shabina Majeed, Sabina Naseer and MF Baqual. 2019. Conservation and utilization of plant genetic resources with special emphasis on mulberry (*Morus* spp.). *International Journal of Fauna and Biological Studies*. 6(1): 43-52.
- ✓ Z. I Buhroo, **Shahina A Nagoo,** Iqra Rafiq and MA Bhat. 2019. Biotechnological advances in silkworm improvement: Current trends and future prospectus. *Journal of Entomology and Zoology Studies*. 7(2): 100-106.
- ✓ Iqra Rafiq, Z. I. Buhroo and **Shahina A. Nagoo** .2019. Mulberry (*Morus spp*.): A versatile tree with inherent bioactive compounds of promising pharmaceutical and nutraceutical properties. *Journal of Pharmacognosy and Phytochemistry*; 8(1): 731-738.
- ✓ Shabina Majid, Amit Kumar, Bhinish Shakeel, Sabia Bashir and **Shahina Nagoo.** 2020. Nut and Kernel Characteristics of Exotic and Indegeneous Almond (Prunus amygdalus Batsch) Genotypes under Temperate Climatic conditions of Kashmir Valley. *International Journal of Current Microbilogy and Applied Sciences.* 9(1): 1914-1919.
- ✓ Shabina Majid, Amit Kumar, Sabia Bashir, Seerat-un- Nisa, Asima Amin, **Shaheena A. Nagoo**, Zahida Rashid, Z. A Dar and Saima Paul. 2020. Xenia Studies in Exotic and Indegeneous Almond (Prunus amygdalus L.) Varieties in Kashmir India. *Journal of Applied and Natural Sciences* 12(2): 244-251.
- ✓ Wajahat un nisa, **Shahina A. Nagoo**, A. A. Lone, F. Rasool, M A. Wani, S. Nasaeer, S. Majid and Z. A. Dar. 2020. Genetic Diversity for various morphological and quality traits in Bread Wheat (Triticum Aestivum L.). *Plant Archives* 20(1)2816-2819.
- ✓ Shabeena Majid, Amit Kumar, Bhinish Shakeel,Sabia Bashir and **Shaheena Ahmad Nagoo.** 2020. Nut and Kernel Characteristics of Exotic and Indigenous Almond

(*Prunus amygdalus* Batsch.) Genotypes under Temperate Conditions of Kashmir Valley. *International Journal of Current Microbiology and Applied Sciences* 9: (1)1914-1919.

- ✓ Tahmeena Bano, **Shahina A. Nagoo**, M. Asif Iqbal Qureshi, M. Altaf Wani, Sanjay Kumar, F. A Sheikh, M. Ashraf Bhat, M. Ashraf Rather, Z. A. Dar, Z. I. Buhroo and Sabiha Ashraf. Genetic Variability Studies for Yield and Yield Attributing Traits in Brown Sarson *(Brassica rapa* L.*)* Genotypes under Temperate Conditions of Kashmir. 2021. *International Journal of Current Microbiology and Applied Sciences*. 10(02): 3535-3544.
- ✓ Tahmeena Bano, **Shahina A. Nagoo**, M. Asif Iqbal Qureshi, M. Altaf Wani1, Sanjay Kumar1, Shabeena Majeed**,** Z. I. Buhroo, Sabiha Ashraf, Masarat Bashir, and Z. A. Dar. 2021. Morphological Characterization of Brown Sarson (*Brassica rapa* L.) Genotypes for DUS Traits. *Plant Archives*. 21(1) :290-295.

Conference proceedings (Full Length Papers)

- ✓ **Shahina A. Nagoo,** Gul Zaffar, Gowhar Ali and Sabina Nasseer**.** 2011. Induction of Haploid Mustard Plants through *in vitro* anther culture. Abstracts and Souvenir. *Ist J & K Agriculture Science Congress .Mountain Agriculture in Transition- Challenges and Way Forward.*
- ✓ Sabina Nasseer, F.A. Nehvi, **Shahina Nagoo** and Gowhar Ali. 2011. Creation of variability for Economic Traits in Saffron.. *Ist J &K Agriculture Science Congress. Mountain Agriculture in Transition- Challenges and Way Forward.*
- ✓ Sabina Nasseer, **Shahina A. Nagoo,** Sheikh Sameer Samad, Asif M. Iqbal and F.A. Nehvi. 2011. Effect of Density and weight of Saffron corm on the yield of Saffron (*Crocus sativus* L.). Souvenir of Two Days National Conference on Recent Trends in BioSciences Organised by Department of Biochemistry and Biotechnology, S.P. College October 3- 4, 2011, pp 52.
- ✓ F.A.Nehvi, Shafiq A. Wani, Gowhar Ali, Sabina Nasseer**, S. A. Nagoo**, Salwee Yasmin, Sheikh Sameer and Jyoti Sethi. 2012. Genetic resource Management for Enhancing Saffron Productivity in Jammu and Kashmir. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:11.
- ✓ F.A.Nehvi, Sabina Nasseer, **S.A.Nagoo**, Salwee Yasmin, Sheikh Sameer Samad, Madhu Sharma and Gowhar Ali. 2012. Performance of in vitro saffron corms for Corm Multiplicatipn and flower Creating Index under Temperate Conditions of Kashmir. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:34.
- ✓ F.A.Nehvi, Asif M. Iqbal, Sheikh Sameer Samad and Sabina Nasseer **S.A.Nagoo**. 2012. Integrated Capsule for enhancing Saffron Productivity. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:73.
- ✓ Sabina Nasseer, F.A. Nehvi, Sheikh Sameer Samad, Asif M. Iqbal, Niyaz A. Dar, Gowhar Ali and. **Shahina A. Nagoo** 2012. Effect of Organic and Inorganic Sources of Fertilisers on growth and Yield of Saffron (*Crocus sativus* L.) *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:75.
- ✓ **Shaheena Ahmad Nagoo**, Gowhar Ali, Sabeena Naseer and F.A. Nehvi. 2012. Transfer and Adoption of Technologies for Socioeconomic Gains. *Souvenir & Book of Abstracts IV International Saffron Symposium October,*22-25,2012.

- ✓ Gowhar Ali, F.A. Nehvi, Ameeque Arshid, Sabina Naseer,**Shahina.A.Nagoo** A.M. Iqbal and S Sameer. 2012 .Effect of Corm Size and Weight on Daughter Corm Formation in Saffron (*Crocus Sativus* L.). *Souvenir & Book of Abstracts IV International Saffron Symposium October,*22-25,2012.Srinagar.
- ✓ Sabina Nasseer, F.A. Nehvi Sheikh Samad, Asif M. Iqbal, Niyaz A. Dar, Gowhar Ali and **Shahina Nagoo**. 2012 .Effect of Organic and Inorganic. Sources of Fertilisers on Growth and Yield of Saffron (*Crocus Sativus* L.) .*Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar.
- ✓ Asif, M. Iqbal, B.A. Ellahi, F.A Nehvi, Sheikh S. Sameer, Sabina Nasseer, Gowhar Ali,**S. A. Nagoo** and Niyaz A. Dar. 2012. Effect of Herbicides for Weed Control in Saffron (*Crocus sativus* L.) *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar.
- ✓ Sheikh S. Sameer, Sabia Bashir, F.A. Nehvi, Asif, M. Iqbal, and Sabina Nasseer, **S.A.Nagoo,** N.A.Dar. 2012. Effect of Biofertilizers, Biological Control Agents and soil Amendments on the Control of Saffron Corm Rot (*Crocus Sativus* L.).*Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar.
- ✓ Abu Manzar F.A. Nehvi, Sheikh. S Sameer, Asif, M. Iqbal, Aijaz A. John, **Sabina Nasseer**, Gowhar Ali, Ameeque Arshid, Salwee Yasmeen and Jyoti Sethi. 2012 .Management Capsule for Saffron Rodents. *Souvenir & Book of Abstracts IV International Saffron .Symposium October,*22-25,2012,Srinagar.
- ✓ **Shaheena Ahmad Nagoo,** Gowhar Ali, Sabeena Naseer and F.A. Nehvi. 2012. Transfer and Adoption of Technologies for Socioeconomic Gains. *Souvenir & Book of Abstracts IV International Saffron Symposium* October,22-25,2012,Srinagar.
- ✓ F.A.Nehvi, Shafiq A. Wani, Gowhar Ali, Sabina Nasseer,**S. A. Nagoo** Salwee Yasmin, Sheikh Sameer and Jyoti Sethi.2012. Genetic resource Management for Enhancing Saffron Productivity in Jammu and Kashmir. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:11.
- ✓ F.A.Nehvi, Sabina Nasseer,**S. A. Nagoo** Salwee Yasmin, Sheikh Sameer Samad, Madhu Sharma and Gowhar Ali. 2012. Performance of in vitro saffron corms for Corm Multiplicatipn and flower Creating Index under Temperate Conditions of Kashmir. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:34.
- ✓ F.A.Nehvi, Asif M. Iqbal, Sheikh Sameer Samad and Sabina Nasseer**,S . A. Nagoo**. 2012. Integrated Capsule for enhancing Saffron Productivity. *Souvenir & Book of Abstracts IV International Saffron Symposium.October,*22-25,2012.Srinagar pp:73.
- ✓ **Shahina A. Nagoo**, F.A.Nehvi and Sabina Nasseer. 2012. Behaviour of Aeroponic saffron under Indoor conditions.Book of Abstracts . *Ist JK Women's Science Congress,* Dec 11-13th pp 51.
- ✓ Sabina Nasseer, **Shahina A. Nagoo**, Sheikh Sameer, Niyaz A. Dar and Gowhar Ali. 2012. Impact of the use of Vermicompost and Organic fertilizers on the yield of saffron(*Crocus sativus* L.) *Ist J &K Women's Science Congress,* Dec 11-13th pp 56
- ✓ **Shahina A. Nagoo**, Gul Zaffar, Sabina Nasseer and Gowhar Ali. 2013. Embryogenesis, Callogenesis and Plant Regeneration from Anther culture of *Brassica rapa* var *olerifera*. Book of Abstracts in International Conference on Regional Development, Sustainability and Socio economic Development in J & K..pp 116.
- ✓ **Shahina Nagoo**, Gul Zaffar, Sabina Nasseer and N. A. Dar. 2015. Generation of haploids in oilseed crop through anther culture 2015. *Book of Abstracts of 3rd JK*

Women Science Congress. Advances in Science & Technology Role of Women. pp 147.
✓ Sabina Nasseer, **Shahina Nagoo** & Gul Zaffar. 2015. Aroma Gene Inheritance in Rice (*Oryza sativa* L.) . *Book of Abstracts of 3rd JK Women Science Congress. Advances in Science & Technology* pp 138.
✓ Salwee Yasmin, F. A. Nehvi, **Shaheena A. Nagoo**, Sabina Nasseer and Niyaz Ahmad Dar. 2017. A Phenological Scale for Development of saffron (*Crocus sativus* L.) *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7-8,2017 pp 6.
✓ Bashir A Allie, F. A. Nehvi, Sabina Nasseer**, Shahina A Nagoo**, Z.A. Dar, A. A. Lone, Gul Zaffar, S. A .Dar and S.A. Hakeem. 2017. Corm density and Planting Method effects on Flower and Corm Yield of Saffron (*Crocus sativus* L.). *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* .August 7-8, 2017 pp 25.
✓ Sabina Nasseer, **Shahina A. Nagoo**, Niyaz A. Dar, T. A. Shah, Gowhar Ali and F.A. Nehvi. 2017. High Density Plantation in Saffron (*Crocus sativus L.*) for achieving Higher Yields. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7-8,2017 pp 36.
✓ **Shahina A. Nagoo**, Sabina Nasseer, Niyaz A. Dar, T. A. Shah, Gowhar Ali and F.A. Nehvi. 2017. Growing Saffron under Atmospherically Controlled Structures. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7 - 8, 2017 pp 37.
✓ F.A. Nehvi, Salwee Yasmin**, Shahina A. Nagoo**, Sabina Nasseer, Niyaz A. Dar and B. A. Allie.2017. Agronomic Manipulations for Enhancing Saffron Productivity. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7 - 8 , 2017 pp 47.
✓ F.A. Nehvi, B. A. Allie, Salwee Yasmin, **Shahina Nagoo**, Sabina Nasseer and Niyaz Ahmad Dar. 2017 .Water requirement of saffron during Critical Stages of Crop Growth. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7 - 8 ,2017 pp 48.
✓ Gowhar Ali, F. A. Nehvi, Ameeque A, M.H. Khan, A.A. Lone**, Shahina A. Nagoo**, Sabina Nasseer, S.H. Wani, A. I. Qureshi, N. A. Dar, I. A. Bhat and G. H. Mir. 2017. Study on Yield and Corm Regeneration of Saffron through Different Planting Geometry Patterns. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7 - 8, 2017 pp 51.
✓ Abu Manzar, **Shahina A. Nagoo**, Sabina Nasseer and F. A. Nehvi. 2017. Future strategies for management of Indian Crusted Porcupine, *Hystrix indica* Kerr (rodentia: *Hystericidae*) in Saffron. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7 – 8, 2017 pp 68.
✓ F.A. Nehvi, Salwee Yasmin, Sabina Nasseer, **Shahina Nagoo**, Niyaz Ahmad, Gowhar Ali and Shabir Ahmad. 2017. Good Practices for Enhancing Saffron Quality under High Density Plantation in Jammu an d Kashmir. *Book of Souvenir and Abstracts. National Seminar on Saffron Production and Promotion* August 7-8,2017 pp 93.
✓ Alie, B.A., Nehvi,F.A., Dar, Z.A., Lone, A.A., Gulzaffar., Dar,S.A., Naseer, S., **Nagoo,S.A,** and Hakeem,S.A. 2017. Influence of integrated nutrient management on flower and corm yield of saffron (*Crocus sativus* L.) . National Seminar on Saffron Production and Promotion held at SKUAST-K from August 7-8th, 2017.P 59 (Poster Presentation).

Book chapters

- ✓ Sabina Nasseer and **Shahina A. Nagoo**. 2015. "Introduction to Mother Baby Trials" Book Chapter in Participatory Plant Breeding for Sustainable Hill and Mountain Agriculture SKUAST-K 19th -28th Feb 2015. pp 250.
- ✓ G. Ali, A.A. Lone, Z.A.Dar, I. Abid, M. Habib, A.B. Shikari, Sabina Nasseer, **S. Nagoo** and A. Iqbal. 2015. Basic Concepts of Mother and Baby Trials. Book Chapter in Participatory Plant Breeding for Sustainable Hill and Mountain Agriculture SKUAST-K 19th- 28th Feb 2015. pp 01.
- ✓ Asif M. Iqbal, Z. A. Dar, Sabina Naseer, **Shaheena N,** Asif B. Shikari and A.A Lone. 2015 Mother Baby trials in Oilseed Brassica. Book Chapter in Participatory Plant Breeding for Sustainable Hill and Mountain Agriculture SKUAST-K 19th - 28th Feb 2015. pp 197.
- ✓ Dar,Z.A., Lone,A.A., Dar,S.A.,Abidi,I., Ali,G.,Naseer,S. and **Nagoo,S**. 2016. Participatory Plant Breeding Approach for popularizing forage oats under temperate climatic conditions. *In. Oats.*
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- ✓ Salwee Yasmin, F. A. Nehvi, J. K. Dhar, Sabina Naseer, **Shaheena Nagoo**, Gowhar Ali and Asif A. Qureshi. 2017. Saffron Improvement improvised methods. **In**: Quality and Quantum Improvement in field crops. Edited by C. P. Malik, Shabir Hussain Wani, Himakshi Bhati-Khuswaha and Ritsh Kaur. Publisher:Agrobios (India) Publication.PVT Ltd Jodhpur.PP225-264.
- ✓ **Shahina A. Nagoo**, Shabina Majeed, Sabina Nasseer, Sabiya Bashir, Zahida Rashid, Z. I. Buhroo, N. A. Dar, M. H. Khan, A. M. I. Qureshi, Z A. Dar and F. A. Nehvi. 2021. Genetic Improvement of Saffron (*Crocus sativus* L.) through Breeding Principles and Biotechnological Approaches. In *Saffron – The Red Gold.* SKUAST-K, Publication. Pp. 82.
- ✓ M. H. Khan, B. A. Alie, N. A. Dar, A. M. I. Qureshi, Mir G. Hassan, G. Ali, S. A. Dar, A. A. Lone, Z. A. Dar, **S. Nagoo**, et al., 2021. Taxonomic Classification and Geographical Distribution of The *Crocus* Genus.2021. In *Saffron – The Red Gold.* SKUAST-K, Publication. Pp. 44.
- ✓ G. Ali, A. Hamid, Z. A. Dar, S. A. Dar, A. A. Lone, B. A. Alie, N. S. Khuroo, S. Naseer, S. Bashir, S. Nissa, F. Rasool, S. H. Wani, B. A. Lone, M. Habib, S. A. Hakeem, L. Ahmed, Z. Rashid, S. Majid, M. H. Khan, A. M. Iqbal, G. H. Mir, N. A. Dar, **S. Nagoo** and S. Iqbal. 2021. Clonal Selection: An Effective Approach for Saffron Improvement. In *Saffron – The Red Gold.* SKUAST-K, Publication. Pp. 124.
- ✓ S. Bashir, M. N. Mughal, S. Majid, S. Naseer, Z. Rashid, F. Rasool, Z. A. Dar, **S. Nagoo** and S. Hakeem.2021. Diseases of Saffron and their Management under Agro-Climatic Conditions of Kashmir. In *Saffron – The Red Gold.* SKUAST-K, Publication. Pp. 218.
- ✓ Sabeena Nasseer, A. M. I Qureshi, Niyaz A. Dar, Sabiya Bashir, **Shaina A. Nagoo** et al., 2021. Production Technology of Spice Crops (Saffron). In Technological Advancement in Spices. SKUAST-K, Publication. Pp.87.

Academic materials developed for for strengthening the learning of student, subject matter specialists and faculties

Books

- ✓ **Saffron-The Red Gold (2021)**
  Contributed and compiled the book edited by B A Alie, M H Khan, A M I Qureshi, N A Dar and G H Mir. Book was released by Hon'ble Vice Chancellor SKUAST-K during International Saffron Conference-2021.
- ✓ **Technological Advancement in Spices (2021)**
  Contributed and compiled the book edited by A M I Qureshi, B A Alie, M H Khan,G. H. Mir and N A Dar Book was released by Hon'ble Vice Chancellor SKUAST-K during International Saffron Conference-2021.

Research Report

- ✓ **A value chain on Kashmir Saffron (National Agricultural Innovation Project-2014)**
  Contributed and compiled the research report edited by F.A.Nehvi. The final report was submitted to ICAR during June, 2014.

Manuals/Capsules/Folders

- ✓ **Good Practices for Saffron Production in Kashmir Valley-A Practical Manual**
  Contributed and compiled the manual edited by F.A.Nehvi. SKUAST-K, Publication.
- ✓ **Irrigation- A critical input for enhanced saffron production and productivity in J&K.- Manual** (F A Nehvi, Salwee Yasmin, S Naseer,**S A Nagoo**, B A Elahi, Ajaz A Lone and A Hamid). Contributed and compiled the manual edited by F.A.Nehvi. SKUAST-K, Publication.
- ✓ **Calendar of operations for saffron cultivation in J&K- Manual** (F A Nehvi, Salwee Yasmin, **S A Nagoo**, Sabeena Waseem, Tariq A. Shah, B A Elahi, Ajaz A Lone and A Hamid). Contributed and compiled the manual edited by F.A.Nehvi. SKUAST-K, Publication.
- ✓ **International training program on cultivation, processing and value addition of saffron_ Manual**
  Contributed and compiled the manual.
- ✓ **Integrated capsule for enhancing Saffron productivity- Capsule (**Abu Manzar and B. A. Elahi F. A. Nehvi, A. M. Iqbal, S. S. Sameer, Sabina Nasseer, **S. A. Nagoo)**
  Contributed and compiled the manual edited by F.A.Nehvi. SKUAST-K, Publication.
- ✓ **Good Agricultural Practices for Normal Density- Manual,** SKUAT-K, Publication.
  Contributed and compiled the manual.
- ✓ **Good Agricultural Practices for High Density- Manual,** SKUAT-K, Publication.
  Contributed and compiled the manual.

Summary of Trainings/Conferences/Seminars Attended / Conducted

Three Weeks Training	Attended	03
Short Courses	Attended	7
National Conferences/Seminars	Attended	20
International Conferences	Attended	10
Trainings	conducted	41
National/International Conferences	Conducted as Co- organizer	07

Important Trainings

- ✓ 7 days Climate Change, Food Security and Livelihood Opportunities in Mountain Agriculture Centre for Climate Change and Mountain Agriculture, SKUAST-Kashmir.
- ✓ 7 days Application of HPLC in quantification of different ingredients of saffron besides HPLC techniques in general IIIM , Jammu University.
- ✓ 10 days Participatory Plant Breeding and Strengthening local seed system Directorate of Research, SKUAST-Kashmir.
- ✓ 21 days Research Methodology in Agricultural Sciences (ID) Academic Staff College, AMU Aligarh.
- ✓ 21 days Livelihood and Food Security in Mountain Agro-ecosystem SKUAST-K.
- ✓ 21 days Geospatial Technologies and Remote sensing University of Jammu.
- ✓ 10 days Application of Advanced Geospatial Technologies in NRM under changing climatic scenario SKUAST-K.

Details of courses taught at UG/PG level since joining SKUAST-Kashmir

Name of the courses taught / teaching during my academic carrier	
✓ Principles of Plant Breeding	✓ Cell Biology and Molecular Genetics
✓ Crop cytogenetics and genome analysis	✓ Biotechnology in crop Improvement
✓ Cellular and chromosomal manipulations in crop improvement	✓ Breeding Legumes, Oil Seed and Fiber Crops
✓ Molecular Genetics	✓ Intellectual Property and its Management in Agriculture
✓ Seed Quality Testing	✓

✓ Seed Legislation and certification	✓ Principles of Genetics and Cytogenetics
✓ Hybrid Seed Production	✓ DUS Testing for plant variety protection
✓ Advances in plant breeding systems	✓ Emerging trends in seed quality enhancement
✓ Seed Quality Testing	✓ Plant Tissue culture and Genetic transformation
✓ Seed Marketing and Management	✓ Introductory Agriculture, Principles of Agronomy and Soil Management
✓ Seed Processing and Storage	✓ Fundamentals of Soil Science
✓ Heterosis Breeding	✓ Genetics and Breeding of Host Plants of Silkworms
✓ Silkworm and Mulberry Breeding and Genetics	✓ Host Plant Production for Mulberry and Non Mulberry Silkworms
✓ Mulberry Breeding and Genetics	✓ Farm Mechanization
✓ Farm Mechanization	✓ Mulberry Farm Management
✓ Genetics and Breeding of Host Plants of Silkworms	✓ Introductory Agriculture, Principles of Agronomy and Soil Management
✓ Host Plant Production for Mulberry and Non Mulberry Silkworms	✓ Fundamentals of Soil Science
✓ Testing for Geniuses and Purity of Cultivars	✓ Seed Production in Field Crops

Extension Accomplishments

Front Line Demonstrations, Adaptive Research Trials/OFT/other trials conducted –

Year	**Crop**	**FLD/OFTS Conducted**	**No of beneficiaries**
2009	Saffron	240	-------
2010	Saffron	16	16
2011	Saffron	88	88
2012	Saffron	83	83
2013	Saffron	14	14

	Oilseed	20	---
2014	Saffron Oilseed	1 17	1 -------
2015	Saffron	66	-------
2016	Saffron	45	
2017	Saffron	13	
	Total	603	202

Development of process, concept, methodology, technology

Process/Concept/ Methodology/ Technology	**Supporting Reference**
1. Production system module for enhancing saffron productivity (Integrated 6-pronged approach of planting geometry, nutrient management, irrigation scheduling, mechanization, pest management, disease management) under Normal & High Density Production System.	• Practical Manual: SKUAST-K Publication (2012) • NAIP Final Report (2014)
2. Post-Harvest system module for enhancing saffron quality (Integrated 5 pronged approach of time of flower picking, flower age, pistil separation, quick drying, storage) under Normal Density and High Density Production System	• Practical Manual. SKUAST-K Publication (2012) • NAIP Final Report (2014) • Accepted papers *Acta Horticulture* (2017). • Book Chapter: Publisher: Agrobios (India) Publication. PVT Ltd Jodhpur.PP225-264. (2017) • Practical Manual: SKUAST-K Publication (2017).
3. Validation and refinement of technologies for identification of potential areas for saffron in non-traditional areas of Jammu & Kashmir (Saffron Diversification).	• Cumulative Progress Report National Saffron Mission (2017) • Accepted papers *Acta Horticulture* (2017) • Practical Manual: SKUAST-K Publication (2017).

4. Saffron Improvement through utilizing indigenous germplasm resources of SKUAST-K.	• Acta Horticulture 850: ISH:67-74(2010) • Acta Horticulture 850: ISH:795-81 (2010) • Journal of Phytology.3(7):47-49(2011) • African Journal of Agriculture Research.85:46-467 (2013)
5.Transfer of Technologies & Human Resource Development.	• GAP for normal density • GAP for high density

I solemnly declare that all the statements made in document are actual and true to the best of my knowledge.

(Dr Shahina A. Nagoo)
Assistant Professor (SG)

Place: Srinagar
Dated: 10-03-2022