

## **List of Safflower publications of NARI**

### **Refereed journals**

1. A. D. Karve, M. S. Ketkar, and A. K. Deshmukh. 1975. Nipping axillary shoots as a means of improving seed quality of safflower (*Carthamus tinctorius* L.). Seed Tech. News. 5 (3) : 3.
2. A.D. Karve, D.V. Nagavekar and Nandini Nimbkar. 1976. Seed set on self-pollination in safflower. Indian J. Genet. Plant Breed. 36:108-110
3. M. S. Ketkar and A. D. Karve. 1976. Identification of safflower varieties resistant to safflower aphids. Sabrao J. 8: 111-116
4. A. D. Karve, and A. K. Deshmukh. 1977. Leaf extract assay for Alternaria resistance in safflower. Indian J. Genet. 37 (1): 154-157.
5. A. D. Karve, A. K. Deshmukh, and V. A. Deshmukh. 1980. Problem of poor seed setting in safflower. Indian J. Genet. 41: 209-212.
6. A. K. Deshmukh, and A. D. Karve. 1983. Mode of action of carbendazim on Alternaria leaf blight of safflower. Indian Bot. Repr. 2 (1): 28-32.
7. A. K. Deshmukh, G. Mohana Rao and A. D. Karve. 1985. Studies on the effect of Honey bees on the seed yield of safflower. Indian Bee Journal. 47: 1-2.
8. A. D. Karve, A. C. Bhalerao, V. A. Deshmukh, and A. K. Deshmukh. 1987. Photomorphogenic effect of crowding on growth and dry-matter production of crops. Indian J. Agri. Sci. 57 (2): 112-116.
9. V. Singh, A. J. Dhembare, M. B. Deshpande and N. Nimbkar. 1993. Variability and character association studies in safflower. J. Maharashtra Agric. Univ. 18 (3): 483-484.
10. V. Singh and N. Nimbkar. 1993. Genetics of aphid resistance in safflower (*Carthamus tinctorius* L.). Sesame and Safflower Newsletter 8: 101-106.
11. A. J. Dhembare and Nandini Nimbkar. 1994. Preference of aphids to different parts of a safflower plant. J. Maharashtra Agric. Univ. 19:157
12. V. Singh, M. B. Deshpande, D. B. Yadav, S. V. Choudhary and N. Nimbkar. 1995. An appraisal of 25 years of safflower research under irrigated conditions : 1968-1993. Sesame and Safflower Newsletter 10: 69-79.
13. V. Singh and S. N. Tewari. 1995. Combining ability analysis for yield and its component characters in triticale. Indian J. Genet. 55 (4) : 410-415.

14. V. Singh. 1996. Inheritance of genetic male sterility in safflower. Indian J. Genet., 56 (4) : 490-494.
15. V. Singh. 1997. Identification of genetic linkage between male sterility and dwarfness in safflower. Indian J. Genet. 57 (3): 327-332.
16. Vrijendra Singh, M. B. Deshpande and N. Nimbkar. 2001. Potential for commercial exploitation of hybrid vigour for flower yield in safflower and popularization of safflower flower as herbal health tea. J. of Medicinal and Aromatic Plant Sciences (JMAPS), 22/4A & 23/1-A (Oct. 2000- Mar. 2001). CIMAP, Lucknow. pp. 303-307.
17. R. Kalpana Sastry, C. Chattopadhyay, Vrijendra Singh and D. M. Hegde. 2002. Integrated management of safflower wilt using host resistance, cultural and chemical measures. J. Mycol. Pl. Pathol., 32 (2) : 189-193.
18. Vrijendra Singh, Mukund B. Deshpande and Nandini Nimbkar. 2003. NARI-NH-1 : The first non-spiny hybrid safflower released in India. [Sesame and Safflower Newsletter. 18 : 77-79.](#)
19. Vrijendra Singh, Mukund B. Deshpande, Sharad V. Choudhari and Nandini Nimbkar. 2004. Correlation and path coefficient analysis in Safflower (*Carthamus tinctorius* L.). Sesame and Safflower Newsletter. 19 : 77-81.
20. A. J. Patil, Vrijendra Singh, B. M. Joshi and A. T. Bhongale. 2005. Adaptability studies in newly developed strains of safflower in Maharashtra. J. Oilseeds Research. 22 (1): 37-39.
21. Vrijendra Singh, and M. B. Deshpande. 2009. Nutritive value of safflower flowers and development of value-added products from them. J. Oilseeds Res. Vol. 26 (Special Issue): 630-633.
22. Abhijit Ranaware, Vrijendra Singh and Nandini Nimbkar. 2010. *In Vitro* antifungal study of the efficacy of some plant extracts for inhibition of *Alternaria carthami* fungus. Indian J. Nat. Prod. Resour. 1 (3): 384-386.
23. Vrijendra Singh, Jitendra H. Akade and Nandini Nimbkar. 2010. Inheritance of stem fasciation and twin/multi-embryonic seeds and genetic linkage between them in safflower. Indian J. Genet., 70(3): 281-287.
24. Vrijendra Singh, Mukund B. Deshpande, Jagdish Singh, Vivek P. Nagaich and Nandini Nimbkar. 2012. Status of hybrid safflower using thermosensitive genetic male sterility in India. J. Oilseeds Res., 29 (Spl. Issue): 122-126.
25. A. S. Patil, Vidya Mane, M. G. Shinde and Vrijendra Singh. 2013. Morphological characterization of different species of safflower (*Carthamus tinctorius* L.) by DUS test. AGRES-An International e-journal. 2 : 503-50

26. Vrijendra Singh, N. M. Kolekar and N. Nimbkar. 2013. Maximization of flower yield in safflower (*Carthamus tinctorius* L.). J. Oilseeds Res., 30 : 43-47.
27. M. G. Shinde, A. S. Patil, Mane, V. A. and Vrijendra Singh. 2014. Comparative evaluation of safflower species through DUS criteria. Int. J. of Ag. and Pl Sci., 2 : 07-1
28. Vrijendra Singh, Ashwini Chavan, S. V. Burungale, M. B. Deshpande and N. Nimbkar. 2014. Heterosis for yield and its components in thermosensitive genetic male sterility-based hybrids in safflower. J. Agric. Res. Technol., 39 : 320-323.
29. P. Kadirvel, D. Ravi, N. Mukta, M. C. L. Montoya-Coronado, S. B. Ghuge, J. Singh, V. Singh, S. K. Shinde, S. N. Deshmukh, P. Yadav and K. S. Varaprasad. 2016. Genetic distinctiveness of safflower cultivars of India and Mexico as revealed by SSR markers. Plant Genetic Resources; 1-14.
30. Vrijendra Singh, R. R. Jadhav, G. E. Atre, R. V. Kale, P. T. Karande, K. D. Kanbargi, N. Nimbkar and A. K. Rajvanshi. 2017. Safflower (*Carthamus tinctorius* L.) – an underutilized leafy vegetable. Current Science. 113 (5) : 857-858.

#### **Book Chapters :**

1. D. M. Hegde, V. Singh and N. Nimbkar. 2002. Safflower. P. 199-221. In: Genetic Improvement of Field Crops. (Singh, C. B. and Khare, D. eds.). Scientific Publishers (India), Jodhpur.
2. D. M. Hegde, Vrijendra Singh and N. Nimbkar. 2003. Safflower, P. 73-92. In: Hybrid seed Production in Field Crops (Singhal, N. C. ed.). Kalyani Publishers, New Delhi.
3. A. Vishnuvardhan Reddy, K. Anjani and Vrijendra Singh. 2003. Safflower. P. 93-97. In: Nucleus and breeder seed production manual (Chowdhury, R. K. and Lal, S. K. eds.). National Seed Project (Crops), IARI, New Delhi.
4. Vrijendra, Singh and N. Nimbkar. 2007. Safflower (*Carthamus tinctorius* L.). P. 167-194. In: Genetic Resources, Chromosome Engineering and Crop Improvement: Oilseed Crops. (Singh, Ram J., ed.). Vol. 4, CRC Press, Boca Raton, FL, USA.
5. A. K. Rajvanshi, Vrijendra Singh and N. Nimbkar. 2007. Biofuels-promise/prospects. P. 247-262. In : Changing Global Vegetable Oils Scenario : Issues and Challenges Before India. (Hegde, D. M. ed.). January 29-31. Indian Society of Oilseeds Research, Hyderabad. [The pdf of lecture is here.](#)
6. Singh, V. and Nimbkar, N. 2015. Safflower. P. 147-165. In: Breeding Oilseed Crops for Sustainable Production (Gupta, S. K. ed.). Elsevier.

**National and International Seminar/conference proceedings:**

1. A. K. Deshmukh, and V. S. Khandal. 1976. Overcoming Alternaria blight of safflower. Proceedings of symposium on Current Developments in Oilseeds and Oils, OTAI Tech. Session-II (3) : 072-073.
2. A. D. Karve, A. K. Deshmukh, and D. V. Nagvekar. 1979. 'Hybrid safflower', Internat. Congress – Oilseeds and Oils. Abstr. 116, 13-14 Feb. New Delhi.
3. A. D. Karve, and A. K. Deshmukh. 1981. Studies of F<sub>1</sub> hybrids of safflower (*Carthamus tinctorius* L.). Proceedings of 1<sup>st</sup> International Safflower Conference, California, Davis. pp. 92-96.
4. A. D. Karve, and A. K. Deshmukh. 1981. Studies of populations of safflower (*Carthamus tinctorius* L.). Proceedings of 1<sup>st</sup> International Safflower Conference California, Davis. pp. 97-102.
5. A. D. Karve, A. K. Deshmukh, and S. M. H. Qadri. 1981. Breeding disease resistant safflower for the cultivation in Deccan Peninsula of India. Proceedings of 1<sup>st</sup> International Safflower Conference, California, Davis. pp. 103-107.
6. A. K. Deshmukh. 1981. Review of safflower research at Nimbkar Agricultural Research Institute, Phaltan. Paper presented in safflower field workshop, Phaltan, Feb. 9, 1981.
7. A. K. Deshmukh. 1984. Improvement of safflower in Australia. Paper presented at Annual Oilseeds Workshop held at Sukhadia University, Agricultural Research Station, Jaipur, Aug. 6-10, 1984.
8. A. D. Karve, A. K. Deshmukh, and D. V. Nagvekar. 1984. Breeding strategies for developing high yielding varieties of safflower. Research and Development strategies for oilseeds production in India. ICAR Publications on the Proceedings of a National Symposium held on 7-9, Nov. 1979 at IARI. pp. 140-142.
9. A. K. Deshmukh. 1986. Package of practices of irrigated safflower. Paper presented at XXIX annual rabi oilseeds workshop held at G. B. Pant Univ. of Agri. Tech. Pantnagar from Aug. 8-11, 1986.
10. A. K. Deshmukh, and A. C. Bhalerao. 1986. On farm Researches in 1980's on irrigated safflower at Nimbkar Agricultural Research Institute, Phaltan. Paper presented at XXIX annual rabi oilseeds workshop held at G. B. Pant Univ. of Agri. Tech. Pantnagar from Aug. 8-11, 1986.
11. A. K. Deshmukh, and A. C. Bhalerao 1986. Production potentials and economics of irrigated safflower. Paper presented at XXIX annual rabi oilseeds workshop held at G. B. Pant Univ. of Agri. Tech. Pantnagar from Aug. 8-11, 1986.

12. A. K. Deshmukh and V. A. Deshmukh. 1986. Reappraisal of techniques and criteria currently followed in India for screening safflower material against leafspot/blight caused by *Alternaria carthami* with specific reference to Australian work. Limitations and future appraisal. Paper presented at XXIX annual rabi oilseeds workshop held at G. B. Pant Univ. of Agri. Tech. Pantnagar from Aug. 8-11.
13. A. K. Deshmukh, and M. B. Deshpande. 1986. A variety for irrigated safflower. Paper presented at XXIX annual rabi oilseeds workshop held at G. B. Pant Univ. of Agri. Tech. Pantnagar from Aug. 8-11.
14. A. K. Deshmukh. 1987. "Management of Irrigated Safflower". Paper presented at subject matter workshop cum seminar on high yielding production technologies for rabi oilseeds jointly organized by Directorate of Extension & ICAR held from Aug. 28 to Sept. 4, 1987 at Directorate of Oilseeds Research, Rajendranagar, Hyderabad
15. A. K. Deshmukh, A. C. Bhalerao, M. B. Deshpande, and N. Nimbkar. 1988. Comparative production potentials of sunflower and other winter crops raised under limited irrigations in vertisols of western Maharashtra. Paper accepted for presentation at the twelfth international sunflower conference to be held at Novi Sad, Yugoslavia from July 25-29, 1988.
16. A. K. Deshmukh, R.M. Patil and Nandini Nimbkar. 1991. Commercial scale exploitation of hybrid vigour in safflower using genetic male sterility system. P. 163-168. In: Ranga Rao V. and Ramachandram, M. (ed.) Proceedings of Second International Safflower Conference held on January 9-13, 1989 Hyderabad. India.
17. Vrijendra Singh, M. B. Deshpande, S. V. Choudhary and N. Nimbkar. 1996. The progress of hybrid development in safflower. Paper presented at the Annual Rabi Oilseeds Research Worker's Group Meeting of Safflower and Linseed held at Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra from August 20-23, 1996. P. 11.
18. V. Singh, S. V. Choudhari, M. B. Deshpande and N. Nimbkar. 1997. Status of hybrid safflower research in India. In : Proc. IVth International Safflower Conference, Bari, Italy. 2-7 June. pp. 266-268.
19. Vrijendra Singh, M. B. Deshpande, M. K. Galande, S. R. Deshmukh and N. Nimbkar. 2000. Current status of research and development in safflower hybrid in India. Extended Summaries. National Seminar on Oilseeds and Oils Research and Development Needs in the Millennium. February 2-4, 2000. Indian Society of Oilseeds Research, DOR, Hyderabad. pp. 62.
20. Vrijendra Singh, M. K. Galande, S. R. Deshmukh, M. B. Deshpande and N. Nimbkar. 2001. Identification of male sterile cytoplasm in safflower. In: [Proceedings Vth International Safflower Conference, Williston, North Dakota, Sidney, Montana, USA, July 23-27, 2001. pp. 123-126.](#)

21. Vrijendra Singh, M. K. Galande, M. B. Deshpande and N. Nimbkar. 2001. Inheritance of wilt (*Fusarium oxysporum* sp. *carthami*) resistance in safflower. In: [Proceedings Vth International Safflower Conference, Williston, North Dakota, Sidney, Montana, USA, July 23-27, 2001.](#) pp. 127-131.
22. Vrijendra Singh, N. Nimbkar and A. K. Rajvanshi. 2001. Safflower research & development at Nimbkar Agricultural Research Institute (NARI), In: [Proceedings Vth International Safflower Conference, Williston, North Dakota, Sidney, Montana, USA, July 23-27, 2001.](#) pp. 117-121.
23. Vrijendra Singh and N. Nimbkar. 2001. Studies on nature of anthocyanin pigmentation and its inheritance in relation to genetic male sterility in safflower. Abstract. Diamond Jubilee Symp. on Hundred Years of Post-Mendelian Genetics and Plant Breeding Retrospects and Prospects, November 6-9. IARI, New Delhi. pp. 149-150.
24. Vrijendra Singh, Darasing R. Rathod, Mukund B. Deshpande, S. R. Deshmukh and Nandini Nimbkar. 2003. Breeding for wilt resistance in safflower. Extended Summaries : National Seminar on Stress Management in Oilseeds for Attaining Self-Reliance in Vegetable Oils. January 28-30, 2003. Indian Society of Oilseeds Research, Hyderabad. pp. 368-370.
25. Anil K. Rajvanshi. 2005. [Development of safflower petal collector](#). In: Esendal, E. (Ed.) Proceedings of Sixth International Safflower Conference, Istanbul, Turkey. June 6-10, 2005 pp. 80–85.
26. Vrijendra Singh. 2005. Status of safflower improvement in India. In: Proceedings, Vth International Safflower Conference, Istanbul, Turkey, June 6-10, 2005. pp. xiii-xv.
27. Vrijendra Singh, M. B. Deshpande and N. Nimbkar. 2005. Polyembryony in safflower and its role in crop improvement. In: Proceedings, Vth International Safflower Conference held in Istanbul, Turkey from June 6-10, 2005. pp. 14-20.
28. Vrijendra Singh, Jitendra H. Akade and Nandini Nimbkar. 2007. Existence of apomixis in safflower. Extended Summaries, National Seminar on “Changing Global Vegetable Oils Scenario: Issues and Challenges before India”, January 29-31, 2007, Indian Society of Oilseeds Research, Hyderabad. pp. 110-111.
29. Nandini Nimbkar. 2008. Issues in safflower production in India. In: Knights S.E. and Potter T.D. (Eds.) Safflower: Unexploited potential and world adaptability. Proceedings of the Seventh International Safflower Conference, Wagga Wagga, NSW, Australia. November 3-6, 2008. ([http://www.australianoilseeds.com/\\_data/assets/pdf\\_file/0020/6743/Final\\_Nimbkar\\_paper.pdf](http://www.australianoilseeds.com/_data/assets/pdf_file/0020/6743/Final_Nimbkar_paper.pdf))
30. Vrijendra Singh, J. H. Akade and N. Nimbkar. 2008. Identification of aposporic embryo sac development in safflower (*Carthamus tinctorius* L.). In: [Proceedings 7<sup>th</sup> International Safflower Conference, Wagga Wagga, New South Wales, Australia from 3<sup>rd</sup>-7<sup>th</sup> November, 2008.](#)

31. Vrijendra Singh, S. R. Deshmukh, M. B. Deshpande and N. Nimbkar. 2008. Potential use of thermosensitive genetic male sterility for hybrid development in safflower. [In: Proceedings 7<sup>th</sup> International Safflower Conference, Wagga Wagga, New South Wales, Australia from 3<sup>rd</sup>-7<sup>th</sup> November, 2008.](#)
32. Vrijendra Singh, N. M. Kolekar and N. Nimbkar. 2008. Breeding strategy for improvement of flower and seed yields in safflower. [In: Proceedings 7<sup>th</sup> International Safflower Conference, Wagga Wagga, New South Wales, Australia from 3<sup>rd</sup>-7<sup>th</sup> November, 2008.](#)
33. Vrijendra Singh, A. M. Ranaware and N. Nimbkar. 2008. Bioefficacy of antagonists against root rot fungus *Macrophomina phaseolina* of safflower. [In : Proceedings 7<sup>th</sup> International Safflower Conference, Wagga Wagga, New South Wales, Australia from 3<sup>rd</sup>-7<sup>th</sup> November, 2008.](#)
34. Vrijendra Singh, A. M. Ranaware and N. Nimbkar. 2008. Breeding for fusarial wilt resistance in safflower. [In : Proceedings 7<sup>th</sup> International Safflower Conference, Wagga Wagga, New South Wales, Australia from 3<sup>rd</sup>-7<sup>th</sup> November, 2008.](#)
35. Vrijendra Singh, A. M. Shitole, M. B. Deshpande and N. Nimbkar. 2015. New ideotypes for increasing scope and sustainability of safflower. National Seminar on strategies interventions to enhance oilseeds production in India. February 19-21, 2015. pp. 101-103.

**Popular articles:**

1. A. D. Karve, A. K. Deshmukh, D. V. Nagvekar, and D. L. Pawar. 1977. *Kardaichya sanshodhanacha phayda ghya*. Shetkari. August. pp. 13-15.
2. V. Singh. 1997. Cultivation of irrigated safflower (Marathi). [Baliraja](#). 28 (9) : 28-29.
3. V. Singh and S. R. Deshmukh. 1999. Safflower production : Present state and future (Marathi). [Baliraja](#). 30 (9) : 18-22.
4. Srinivas Deshmukh, Vrijendra Singh and N. Nimbkar. 2000. *Maharashtrateel shetkaryanna vardan tharnare kardaichya fulanche peek* (Marathi), (Production of safflower flowers – a promising crop of high remuneration for Maharashtra farmers). Lokmat Aksharrang. Sunday 18 October. P. 8.
5. Nimbkar, N. 2002. [Safflower rediscovered](#). [Times Agricultural Journal](#). 2(1): 32-36.
6. Vrijendra Singh, N. Nimbkar and S. R. Deshmukh. 2002. *Shetisathi Naricha navin binkateri sudharit kardai van* : NARI-6 (Marathi), (NARI develops a non-spiny safflower variety NARI-6 for production). [Baliraja](#). 33 (10) : 56-60.

7. Nandini Nimbkar, Vrijendra Singh and S. R. Deshmukh. 2003. *Kardaichya bharghos utpadanasathi NARICHE binkateri naveen prasarit van : NARI-6 (Sudharit van) Va NARI-NH-1 (Sankarit van)* (Marathi) (For bumper crop of safflower Nimbkar Agricultural Research Institute releases non-spiny variety NARI-6 and non-spiny hybrid NARI-NH-1). Mahabeej Varta. 3(4) : 10-14.
8. Nandini Nimbkar, Vrijendra Singh, Mukund B. Deshpande and S. R. Deshmukh. 2004. Non-spiny safflower. Marathi daily Sakal (Pragati). P. 4. Dated September 29.
9. Vrijendra Singh, Nandini Nimbkar and S. R. Deshmukh. 2005. *Bharatatil pahile binkateri kardaiche sankarit van : NARI-NH-1 (Marathi)* (NARI-NH-1 : The first non-spiny hybrid safflower in India). Baliraja. 36 (8) : 71-74.
10. Vrijendra Singh, M. B. Deshpande, S. R. Deshmukh and N. Nimbkar. 2007. Non-spiny safflower – an assured crop, Annadata (Periodical), September 2007. pp. 29-31.
11. Nandini Nimbkar. 2009. *Kardila ahe jagatik sandhi*. (Marathi). Article on the 7<sup>th</sup> International safflower conference held in Australia. Agrowon. 24 March. Pp. 8-9
12. M. B. Deshpande and Vrijendra Singh. 2013. Business of safflower flowers (*Kardai fulancha vyavasay* (Marathi). Baliraja. 44 (9) : 15-19.
13. Mukund Deshpande, Vrijendra Singh and G. Atre. 2015. *Kardai peek vywasthapan* (Marathi). Adhunik Kisan. 4: 27-28.
14. Mukund Deshpande, Vrijendra Singh, and Nandini Nimbkar. 2015. *Kardaiche navin sankarit van NARI-H-23* (Marathi). Adhunik Kisan. 4 : 29-31.
15. Shreya Pareek. 2015. [These hybrid varieties of safflower can shake up agriculture and farmer income in dry states.](#) Better India, 29 July 2015.
16. Mukund Deshpande, Vrijendra Singh and G. Atre. 2016. *Binkatyachya kardaiche duheri utpanna*. Adhunik Kisan. 5 : 27-29.
17. Anil K Rajvanshi. 2017. [How the nutritious and tasty safflower can also help the farmers earn more.](#) Better India blog. 27 April, 2017

### **Final Project Reports:**

1. A D. Karve. 1980 Resistance of safflower (*Carthamus tinctorius* L.) to insects and diseases. Final Technical Report. United States Department of Agriculture, Agricultural Research Service, Washington, U.S.A.



2. V. Singh. 1997. Project Completion report on “Incorporation of anthocyanin pigment as a seedling marker in genetic male sterile line of safflower”, submitted to DST, New Delhi. P. 19.
3. Anil K. Rajvanshi. 2003. Final Report of ad hoc project on “Technology development for safflower petal collection” Submitted to ICAR, New Delhi. P. 70
4. Vrijendra Singh. 2005. Final Report of ad hoc project on “Identification of early plant growth male sterility marker in existing GMS systems and search for cytoplasmic genetic source of male sterility in safflower”. Submitted to ICAR, New Delhi. P. 61.
5. Vrijendra Singh, N.M. Kolekar and N. Nimbkar. 2006. Final Report of ad hoc project on “Biometrical investigations of flower yield and its components and their maximization in safflower”. Submitted to ICAR, New Delhi. P. 106.
6. Vrijendra Singh. 2009. Final Report of ad hoc project on “To study origin of seeds with twin embryos and of fused multiple seeds, their inheritance and relationship with possible existence of polyembryony and/or apomixes in safflower”, Submitted to ICAR, New Delhi. P. 55.

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