Curriculum Vitae

Dr. SHESHRAO KAUTKAR
Scientist,
ICAR-CIRCOT, Mumbai

PERSONAL DETAIL:

Father's Name	Mr. Sakharam Kautkar
Permanent Address	Dr. Sheshrao Kautkar "Shakyamuni House", Janki Nagar, Indira Nagar Parisar At. Post. Mantha, Tal- Mantha, Distt- Jalna (Maharashtra) 431504
Corresponding Address	Dr. Sheshrao Kautkar, Scientist, QEID, ICAR-CIRCOT, Adenwala Road, Near Five Gardens, Matunga (East), Mumbai-400 019 (MH)
Gender	Male
Nationality	Indian
Marital Status	Married
Date of Birth	15th May 1987
E-mail	sskautkar15@gmail.com, Sheshrao.Kautkar@icar.gov.in
Contact Number	+91 9456553244

ACADEMIC QUALIFICATIONS:

Qualification	Year of Passing	Board/ University	Marks/ OGPA	Division	Subjects
S.S.C.	2003	Maharashtra State Board of Secondary and Higher Secondary Education, Pune	73.60 %	First	Marathi. Hindi, English, Maths, Social Sciences, Science
H.S.C	2005	Maharashtra State Board of Secondary and Higher Secondary Education, Pune	66.50%	First	Physics, Chemistry, Biology, Maths Hindi, English,
B. Tech	2011	VNMKV, Parbhani, Maharashtra	7.780/10	First	Agricultural Engineering
M. Tech	2013	G. B. Pant Univ. of Agil. & Tech., Pantnagar, Uttarakhand	8.156/10	First	Process and Food Engineering
Ph. D.	2019	G. B. Pant Univ. of Agil. & Tech., Pantnagar, Uttarakhand	8.469/10	First	Process and Food Engineering

AWARD/FELLOWSHIP/HOUNOURS:

1. Qualified **ICAR-JRF** examination in 2011 in Agricultural Engineering with All India Rank 70th.
2. Recipient of **ICAR Junior Research Fellowship** during PG studies (M.Tech.)
3. Awarded Rajiv Gandhi National Fellowship **(RGNF)** for SC/ST in the year 2014-15
4. Qualified **ARS-NET** (ICAR) examinations two times in the year 2014 (I) and 2014 (II)
5. Selected as Agricultural Research Scientist (**ARS**) in ICAR in 2014-15
6. **Young Scientist Award** in International Conference on Recent Advances in Food Processing and Biotehnology-2016 organized by Centre of Food Science and Technology Institute of Agricultural Sciences held at Banaras Hindu University, Varanasi, UP (India)
7. **Best Ph. D. thesis award** in 4th International Conference On "Current Approaches in Agricultural, Animal Husbandry &Allied Sciences for Successful Entrepreneurship (CAAAAHASSE-2021)" organized by *Agro Environmental Development Society (AEDS, Majhra Ghat, Rampur-244922, Uttar Pradesh, India* during 13-15 March, 2021
8. **Young Scientist Award** by Vigyan Varta- An International E-Magazine for Science Enthusiasts" duringVigyan Varta Awards 2021

PUBLICATIONS:

1. Research Papers:

1. **Kautkar S** and Pandey JP. (2018). An elementary review on principles and applications of modern non-conventional food processing technologies. *Int. J. Curr. Microbiol. App. Sci.* 7(5): 838-849.
2. **Kautkar S.,** Sahay, C. S., Gurjar, B., Patil, A. K. and Pathak, P. K. 2020. Value addition of moringa leaves: preparation of leaf powder and nutritional information. *Research Journal of Agricultural Science,* 11(1): 255-258.
3. **Kautkar S,** Pandey JP, Singh A, Kumar A and Shukla AK. (2018). Effect of temperature and voltage gradient on electrical conductivity of rapeseed slurry during Ohmic heating. *International Journal of Chemical Studies.* 6(6):371-375.
4. **Kautkar, S. S.,** Pandey, J. P., Singh, S., Kumar A., Shukla, A. **(**2016). Development of ohmic heating apparatus for extraction of rapeseed oil. *International Journal for Innovative Research in Science & Technology*.2(11):211-214.
5. **Kautkar, S. S.,** Pandey, R. K., Richa, R. and Kothakota, A. (2015). Temperature dependent electrical conductivities of ginger paste during ohmic heating. *International Journal of Agriculture, Environment and Biotechnology.* 8(1):21-27.
6. **Kautkar, S. S.,** Richa, R. and Kothakota, A. (2014). Studies on quality characteristics of ohmically heated ginger paste. *Research Journal of Agricultural Sciences.* 5(4): 802-805.
7. **Kautkar, S. S.,** Kate, A. E. and Choudhary, H. (2013). Performance evaluation of bullock drawn MAU stubble collector. *Internat. J. Agric. Engg.,* 6(2):368-371.

8. Richa, R., **Kautkar, S. S.,** Kothakota, A., Kumar, S. and Choudhary, H. (2015). Studies of storage conditions to increase the shelf life of Malta (Citrus sinensis L. Osbeck) using responce surface methodology. *Ecology Environment and Conservation.* 21(3):1453-1459.

9. Kothakota, A., Sarkar, S., **Kautkar, S.,** Singh, S. and Richa, R., (2014) Environmental importance of microbial surfactants production from molasses and soy-okra by *Pseudomonas* spp. *The Ecoscan,* Special issue, Vol. V: 01-04.

10. Kothakota, A., Kumar, A., Kumar, M., Juvvi, P., Rao, S. and **Kautkar, S.,** (2014) Characteristics of spray dried dahi powder with maltodextrin as an adjunct. *International Journal of Agriculture, Environment and Biotechnology.* 7(4): 849-865.

11. Rishi Richa, J. P. Pandey, N. C. Sahi and **S. S. Kautkar.** (2016) Optimization of Storage Conditions of Malta (*Citrus sinensis*) Using Response Surface Methodology. *International Journal of Food Engineering*. 2(5):507-514

12. Amit Kumar Patil, Monika Satankar, **Sheshrao Kautkar** and Rehana Raj. (2020) Cloud Point Extraction: A Novel Approach for Extraction of Bioactive Compounds from Fruit and Vegetable Waste. *Chemical Science Review and Letters,* 9(34): 324-328.

13. Monika Satankar, Amit Kumar Patil, **Sheshrao Kautkar** and Utkarsh Kumar. (2020). Pearl Millet: A Fundamental Review on Underutilized Source of Nutrition. *Multilogic in Science,* 10(34): 01-04.

14. Singh, S. K., Pathak, P., Gurjar, B., and **Kautkar, S.** (2021). Defluffing machine for dinanath grass seeds (Pennisetum pedicellatum). *The Indian Journal of Agricultural Sciences, 91*(8): 1122-6.

15. Singh, S. K., **Sheshrao Kautkar,** P. K. Pathak, Bholuram Gurjar, Sunil Swami and Prabhu Govindasamy. (2021). Moisture Dependent Selected Engineering Properties of *Deenanath* Seeds in Relation to Development of Processing Machinery. *Journal of Agricultural Engineering.* 58(3): 1-12.

16. Singh, S. K., Patil, A. K., **Kautkar, S.,** Dwivedi, P. N., and Singh, A. K. (2021). Cooling and Qualitative Study of Evaporative Cool Hydroponically Grown Maize Crop. *Current Journal of Applied Science and Technology.* 40(22): 1-7.

17. Singh, S. K., Patil, A. K**., Kautkar, S** and DwivedI, P. N. (2021). Thermal Performance for Hydroponic Maize Fodder Production. *The Bioscan,* 16(1): 199-202.

18. Sanjay Kumar Singh, **Sheshrao Kautkar**, Bholuram Gurjar, P. K. Pathak and Sunil Swami. (2020). Engineering properties of spikelets and true seeds of deenanath (*Pennisetum pedicellatum* Trin.*)* grass. *Range Mgmt. & Agroforestry,* 41(2): 328-335.

19. Khem Chand, NAGaratna Biradar and **Sheshrao Kautkar.** (2021). Fodder status in drought year and the practice of free range grazing in Bundelkhand region of India. *Indian Journal of Animal Sciences,* 91(9): 760–764.

20. Sanjay Kumar Singh, **Sheshrao Kautkar and Amit Kumar Patil. 2021.** Impact of engineering properties of grass seeds in developing postharvest operations and machineries. *Environment Conservation Journal,* 22 (3):395-399.

21. Sanjay Kumar Singh, **Sheshrao Kautkar**, P.K. Pathak1 and Amit Kumar Patil. 2022. Moisture Dependent Physical Properties Assessment of Deenanath Grass Seeds. *Eco. Env. & Cons., 28 (2): (747-751).*

22. Sanjay Kumar Singh, Amit Kumar Patil, **Sheshrao Kautkar**, P. N. Dwivedi and A. K. Singh. 2022. Development and performance evaluation of evaporative cool

hydroponic fodder production chamber. Range Mgmt. & Agroforestry, 43(1):132-138.

23. V. G. Arude, S. K. Shukla and **S. S. Kautkar**. 2022. Adoption and Assessment of Suitability of Seed Cotton Contamination Cleaner for Contamination Control in Indian Ginning Industry. Multilogic in Science, XII (XXXXIV):310-313.
24. Sahay, C. S., Thorat, D. S., **Kautkar, S. S**., Patil, A. K., & Pathak, P. K. (2023). Grass seed harvesting–Methods, machines and aspects. Res. Jr. Agril. Sci, 14(2), 512-515.
25. Dukare, A., Sharma, K., **Kautkar, S**., Dhakane-Lad, J., Yadav, R., Nadanathangam, V., & Saxena, S. (2023). Microbial xylanase aided biobleaching effect on multiple components of lignocelluloses biomass based pulp and paper: a review. Nordic Pulp & Paper Research Journal, (0).
26. Singh, S. K., Pathak, P. K., Gurjar, B., & **Kautkar, S.** (2021). Defluffing machine for dinanath grass seeds (Pennisetum pedicellate). Indian Journal of Agricultural Sciences, 91(8), 1122-6.

2. Popular Articles/Book chapters/Leaflets:

1. **Kautkar S,** Kothakota A and Sagarika N. 2019. Sensory evaluation: A tool in determining acceptability of food products. *Processed Food Industry*. 22(3):29-30.
2. Pushpendra Koli, Nitish Rattan Bhardwaj and **Sheshrao Kautkar.** A toxic chemical for livestock feed: Mimosine. *Popular Kheti,* 6(1): 146-149.
3. **Kautkar, S.** S., Richa, R., Kothakota, A. and Omre, P. K. (2014). Shelf life enhancement of horticultural produce by various preservation techniques: A prospective for Indian farmers. *Indian Farmers' Digest. December, 2014:* 41-42p.
4. Richa, R., Kothakota, A., **Kautkar, S.** and Omre, P. K. (2014). On- farm rural storage of fruits and vegetables by low cost zero energy cool chamber and enhancing the economy of Indian farmers. *Indian Farmers' Digest. December,2014:* 34-35p
5. Kothakota, A., **Kautkar, S.** and Sahi, N. C. (2014). Dairy foods and their functional aspects for human health: A new potential for poor peoples of India. *Indian Farmers' Digest. November,2014:* 5-6p.
6. Kothakota, A., **Kautkar, S.** and Richa, R. (2014). Tomato (Lycopersicon esculentum Mill.): An advanced post harvest handling and processing practices for Indian farmers. *Indian Farmers' Digest. Septeber,2014:* 32-33p
7. P. K. Pathak, C. S. Sahay and **Kautkar S. S**. Farm machinery and Implement for efficient production and utilization in fodder based farming system. 15 days Training on "Certified Farm Advisor Programme for Forage Crops" at IGFRI Jhansi on Sponsored by "MANAGE, Hyderabad" for public extension functionaries
8. Akram Ahmed, S. K. Mahanta, S. K. Singh and **S. S. Kautkar**. Grassland Productivity and Ecosystem Services. In Winter school on "Feeding strategies to climate resilient forage and livestock production" during 05-25 September, 2017 at ICAR-IGFRI, Jhansi.
9. **Sheshrao Kautkar** and Rehana Raj. 2019. Novel non-thermal food processing technologies for quality food production. *Readers Shelf Magazine.* 16(05): 20-23.

10. Amit Kumar Patil, Monika Satankar, **Sheshrao Kautkar** and Rehana Raj. 2019. Modern engineering technologies: a boon to transform indian agriculture. *Readers Shelf Magazine*. 16(05): 55-57.
11. **Sheshrao Kautkar,** Rehana Raj, Amit Kumar Patil and Monika Satankar. 2020. Ultrasound and its Applications in Food Processing. *Readers Shelf.* 16(07): 24-26
12. Satankar, M., Patil, A. K., **Kautkar, S.** and Raj, R. 2020. Novel Extraction Techniques for polyphenols from Fruit and Their Waste Products. *Readers Shelf.* 16(12): 13-15.
13. Sanjay Kumar Singh, **Sheshrao Kautkar**, Bholuram Gurjar, P. K. Pathak, Sunil Swami and Amit Kumar Patil. 2019. "Engineering properties of spikelets and true seeds of Deenanath grass. *IGFRI Newsletter. Oct-Dec, 2019*
14. **Sheshrao Kautkar** and Rehana Raj. 2019. Preservation and shelf life enhancement of fruits and vegetables. *Indian Farmer*. 6(11) 744-748
15. **शेषराव काऊतकर**, चन्द्रशेखर सहाय,, प्रभाकांत पाठक और नारायण द्विवेदी. 2018 "बुन्देलखंड क्षेत्र के लिए कृषी उपयोगी मशिने".
16. चन्द्रशेखर सहाय, **शेषराव काऊतकर**, अजिता गुप्ता, भोलूराम गुर्जर, प्रकाश नारायण द्विवेदी और प्रभाकांत पाठक.2019. LFkkuh; {ks= ds fy, d`f'k dk;Z esa mi;qDr मशिने
17. अमित कुमार पाटील, **शेषराव काऊतकर,** भोलूराम गुर्जर, अजिता गुप्ता, संजय कुमार सिंह, चन्द्रशेखर सहाय, प्रकाश नारायण द्विवेदी और प्रभाकांत पाठक. 2019. चारे की कटाई, संवर्धन एवं मूल्यवर्धन के लिए उपयुक्त मशीनें
18. **शेषराव काऊतकर,** प्रभाकांत पाठक**,** चन्द्रशेखर सहाय एवं प्रकाश नारायण द्विवेदी. 2018. गुणवत्ता युक्त सहजन पत्ती: मानव एवं पशु उपयोगी. चारा पत्रिका. 65-68.
19. **शेषराव काऊतकर,** वी**.** सी**.** त्यागी**,** अकरम अहमद एवं प्रभाकांत पाठक. 2017. हाइड्रोपोनिक चारावर्ष क : लिए ग्रीन चारा उत्पादन के लिए एक सरल तकनीक. चारा पत्रिका. 89-92.
20. **शेषराव काऊतकर,** एस. के. शुक्ला, एस. व्ही. घाडगे, व्ही. जी. अरुडे, बीशिरसाठ.व्ही. एवं डी. यु. पाटील. 2021. कपास ओटाई प्रक्रिया: मुलभुत विज्ञान तथा रोलर की सतह पर धारियों की संरचना का महत्त्व. अंबर. 30-33.
21. jsgkuk jkt[1]] eksfudk lkrudj] vfer dqekj ikVhy ,oa **'ks"kjko dkÅrdj.** 2021. —f"k esa efgyk l'kfädj.k dk egRo ,oa iks"k.k y{;ksa dh çkfIr. अंबर. 20-23.
22. आजिनाथ डुकरे, **'ks"kjko dkÅrdj** ,oa सुजाता सक्सेना**.** 2021. प्रदुषण विरहित सूती वस्त्र प्रसंस्करण एवं परिष्करण प्रक्रिया के लिए एंजाइम के अनुप्रयोग**.** अंबर. 42-46.
23. **Sheshrao Kautkar** and Rehana Raj. 2022. Importance of women's empowerment for the nation's development. Sasthra- The Indian Journal of Science and Technology. 6-9.

3. Conferences'/Symposium/Workshop/Seminar:

1. **Sheshrao Kautkar,** S. K. Shukla, S. V. Ghadge, V. G. Arude, B. V. Shirsath and D. U. Patil· 2021. Study on Chrome Leather Rollers Groove Profile Adopted by Cotton Ginning Industries" in 4th International Conference On "Current Approaches in Agricultural, Animal Husbandry &Allied Sciences for Successful Entrepreneurship (CAAAAHASSE-2021)" organized by Agro Environmental Development Society (AEDS, Majhra Ghat, Rampur-244922, Uttar Pradesh, India during 13-15 March, 2021. (**Oral**)

2. **Sheshrao Kautkar,** and Jay Prakash Pandey 2020. Recent Trends and Modern Technologies for Oil Extraction. In National conference on "Recent Trends for Development of Functional Food", February 6-7, 2020 at MAFSU, Nagpur. (**Oral**)
3. **Kautkar Sheshrao,** J. P. Pandey, Anupama Singh and Anil Kumar. 2016. Development of A Small Scale Ohmic Heater For on Farm Processing of Fruits and Vegetables: A Prospective to Strengthen the Indian Farmer" in International Conference on Recent Advances in Food Processing and Biotehnology-2016 organized by Centre of Food Science and Technology Institute of Agricultural Sciences held at Banaras Hindu University, Varanasi, UP (India). (**Oral**)
4. **Sheshrao Kautkar,** Jay Prakash Pandey, Anupama Singh, Anil Kumar and A. K. Shukla.2018. Development of A Small Scale Ohmic Heater for on Farm Processing of Fruits and Vegetables: A Step Towards Doubling Farmers Income. In National Symposium on "Doubling Farmers Income through Technological Interventions" at AAU, Anand, Gujrat during 8-10 January, 2018.
5. S K. Singh, P. K. Pathak, Bholuram Gujar, **Sheshrao Kautkar**, Sunil Swami. Design development of defluffing machine for grass seed enhancement.2019. In: 53rd Annual Convention of Indian Society of Agricultural Engineers (ISAE), January 28-30, 2019. Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, UP. P 86.(**Oral**)
6. CS Sahay, **S Kautkar,** PK Pathak and PN Dwivedi. Compact Manually Operated Feed Block Making Machine. In: National Symposium on "Forage and livestock based technological innovations for doubling farmers' income" December 13-14, 2018, UAS, Dharwad, Karnataka. **(Poster).**
7. National workshop on "Food Processing and Preservation Techniques: Traditional & Contemporary Approach" held on 15th-16th October, 2014 at Babasaheb Bhimrao Ambedkar University, Lucknow (INDIA).
8. Participated in "The first international congress Ecological Integrity and Environmental Ethics Living for a Sustainable Future" held at G. B. P. U. A. & T., Pantnagar from 8th-10th November, 2014.
9. **Kautkar, S.** and Omre, P. K. (2015). A sustainable approach for food processing and their environmental impact. *49th Annual Convention of ISAE and Symposium on Engineering Solutions for Sustainable Agriculture and Food Processing*.7p.
10. **Kautkar, S. S.,** Richa, R., Kothakota, A. and Sahi, N. C. (2014). Sustainable food security by post-harvest processing and value addition of plum: enhancing the shelf life and human living standard. *The first international congress Ecological Integrity and Environmental Ethics Living for a Sustainable Future" held at G. B. P. U. A. & T., Pantnagar from 8th-10th November, 2014*.
11. Kothakota, A., **Kautkar, S.,** Sarkar, A. And Pandey, J. P. (2014). An evaluation of the biological and toxicological properties of aloe products. *The first international congress Ecological Integrity and Environmental Ethics Living foa a Sustainable Future" held at G. B. P. U. A. & T., Pantnagar from 8th-10th November, 2014*.
12. **Kautkar, S. S.,** Pandey, R. K., Kate, A. E. and Richa, R. (2013). Post-harvest processing and value addition of plum: A hilly fruit. *National Seminar on " Technological Interventions for Sustainable Hill Development" held at G. B. B. U. A. & T., Pantnagar from 17th -19th June, 2013.*

13. **Kautkar, S. S.,** Pandey, R. K., and Choudhary, H. (2013). Proximate composition and micronutrient potentials of three locally available wild fruits in Uttarakhand. *National Seminar on "Technological Interventions for Sustainable Hill Development" held at G. B. B. U. A. & T., Pantnagar from 17th -19th June, 2013.*
14. **Kautkar, S. S.,** Pandey, R. K., Richa, R., and Kate, A. E. (2013). Ultrasounds: an emerging technology in food processing. *National Seminar on "Technological Interventions for Sustainable Hill Development" held at G. B. B. U. A. & T., Pantnagar from 17th -19th June, 2013*

DECLARATION:

I do hereby declare that all the entries made above are true, complete and correct to the best of my knowledge and belief.

Place: ICAR-CIRCOT, Mumbai
Date: 31/07/2023

Yours Sincerely

Dr. Sheshrao Kautkar
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