

CSIR-CIMAP Employee Details for Website



1. **Name:** Channayya Hiremath
2. **Employee ID:** 695
3. **Designation:** Sr. Scientist
4. **Latest Photograph (for display)**
5. **Official Address:** CSIR-CIMAP, Research Centre, GKVK Post, Allalassandra, Bengaluru-560065
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chiremath18gmail.com
7. **Institute Contact Number (Epabx No.) & Mobile Number:** 080-28460563,
9900217920
8. **Divisional Unit Name:** Divisional Unit, Plant Breeding and Genetic Resource Conservation, CSIR - Central Institute of Medicinal and Aromatic Plants, Research Centre, Bangalore, India
9. **Area of Specialization (maximum 500 words)**

Specializing in the crop improvement of medicinal and aromatic crops like Lemongrass, Patchouli, Geranium, Rosemary, Kalmegh, and Davana through conventional breeding approaches is a valuable endeavour. Also working on molecular marker development to assess the genetic diversity, DNA fingerprinting.

10. Qualifications (Please provide Degree, University, Stream and Year)

Sl. No.	Degree	Year	Subject	University/Institution	% of Marks
1	B.Sc. (Agri.)	2007	Agriculture	University of Agricultural Sciences Dharwad	78.70
2	M.Sc. (Agri.)	2009	Agricultural Sciences (Genetics and Plant Breeding)	University of Agricultural Sciences Dharwad	86.90
3	Ph. D	2013	Agricultural Sciences (Genetics and Plant Breeding)	University of Agricultural Sciences Bengaluru	86.90

11. Academic/Research Experience (provide bullet-wise details)

- Research Associate: AICRP on Dryland Agriculture, UAS, Dharwad: 21-01-2010 To 01-07-2010.
- Technical Assistant: Project Coordinating Unit (Small Millets) AICSMIP, ICAR, GKVK, Bengaluru: 27-09-2013 To 22-10-2014
- Research Associate: Project Coordinating Unit (Small Millets) AICSMIP, ICAR, GKVK, Bengaluru: 23-10-2013 To 30-12-2013
- Research Associate: Department of Genetics and Plant Breeding, College of Agriculture, Bheemarayanagudi: "Testing and Deployment of New Drought Resilient Maize Hybrids in Rainfed Regions of Karnataka, India": 17-06-2014 To 25-06-2015
- Technical Assistant: KVK, Hanumanamatti, UAS, Dharwad: 02-07-2015 To 04-06-2016
- Scientist: CSIR-CIMAP, RC, Bengaluru: 06-06-2016 To 06-06-2020
- Sr. Scientist: CSIR-CIMAP, RC, Bengaluru: 06-06-2020 To till date

12. Honours & Awards (provide bullet-wise details)

Awarded **ICAR-SRF** for my Doctoral degree program from ICAR, India.

13. Research Publications (provide bullet wise details)

1. **Channayya Hiremath**, Greeshma M, Namita Gupta, Baskaran Kuppusamy. Morphometric, chemotypic, and molecular diversity studies in *Andrographis paniculata*. *Journal of Herbs, Spices & Medicinal Plants*. **2020**. <https://doi.org/10.1080/10496475.2020.1787290> (IF:0.63) 27(2) 1-14

2. **Channayya Hiremath**, Manoj Kumar Yadav, M.R. Swamy Gowda, A. Niranjana Kumar and K.V.N. Satya Srinivas. Influence of growth stage on essential oil content and major chemical constituents of *Artemisia pallens* Bess. **Trends Phytochem. Res.** 4(2) 85-92. **2020**
3. **Channayya Hiremath**, Yogendra ND Ramesh Vadatti K Baskaran Manoj K Yadav Ram S Verma Velusamy Sundaresan. Evaluation of *Mentha arvensis* L. cultivars for essential oil yield in Southern tropical regions of India. **Journal of Medicinal and Aromatic Plant Sciences.** 42(1-2), 127-131. **2020 (NAAS Score: 4.449)**
4. **Channayya Hiremath**, Velusamy Sundaresan, K Baskaran Amit Kumar, Yogendra ND, Manoj K Yadav, Ram S Verma, KVN Satya Srinivas J Kotes Kumar, Niranjana Kumar, Alok Kalra, Anil K Tripath. A linalool rich variety - CIM-Sukhda of *Ocimum basilicum*. **Journal of Medicinal and Aromatic Plant Sciences.** 42(1-2), 68-72, **2020. (NAAS Score: 4.449)**
5. **Channayya Hiremath**, Roja Philip, Velusamy Sundaresan. Molecular characterization of India Ginseng *Withania somnifera* (L) using ISSR markers. **Molecular Biology Reports.** <https://doi.org/10.1007/s11033-021-06397-8>. **2021. (IF:2.36)**
6. Raghavendra N Kulkarni, K Baskaran, Velusamy Sundaresan, **Channayya Hiremath**, Yogendra ND, Manoj K Yadav, KVN Satya Srinivas, J Kotes Kumar, Niranjana Kumar, Rajendra C Padalia, Amit Kumar, Alok Kalra and Anil K Tripathi A geraniol rich variety of lemongrass (*Cymbopogon flexuosus* (Steud.) Wats.): CIM-Atal. **Journal of Medicinal and Aromatic Plant Sciences.** 42(1-2), 64-67: **2020. (NAAS Score: 4.449)**
7. Anthati Mastan, Chikkarasanahalli Shivegowda Vivek Babu¹, **Channayya Hiremath**, Kalavagunta Venkata Naga Satya Srinivas, Arigari Niranjana Kumar & Jonnala Kotes Kumar. Treatments with native *Coleus forskohlii* endophytes improve fitness and secondary metabolite production of some medicinal and aromatic plants. **International Microbiology.** <https://doi.org/10.1007/s10123-019-00108-x> **2019 (IF:1.833)**
8. Premalatha K., Navya Botlagunta, Santhosh D., **Channayya Hiremath**, Rajesh K. Verma, Karuna Shanker, V. Sundaresan & Alok Kalra. Enhancement of soil health, germination and crop productivity in *Andrographis paniculata* (Burm.f.) Nees, an important medicinal crop by using a composite bio inoculant, **Journal**

of Plant Nutrition, DOI:10.1080/01904167.2021.1899207. **2021 (IF:1.132)**
(NAAS Score: 6.75)

9. Paurabi Das, Puja Khare, Raghavendra Pratap Singh, Vineet Yadav, Pratibha Tripathi, Anuj Kumar, Versha Pandey, Pooja Gaur, Asha Singh, Ram Das, **Channayya Hiremath**, Ashutosh Kumar Verma, Ashutosh K. Shukla, Karuna Shanker. Arsenic-induced differential expression of oxidative stress and secondary metabolite content in two genotypes of *Andrographis paniculata*. **Journal of Hazardous Materials.** **406**, <https://doi.org/10.1016/j.jhazmat.2020.124302> **2021, (IF:9.038) (NAAS Score: 13.65)**
10. Amit Kumar, Vereena Rodrigues, Sanchi Verma, Manju Singh, **Channaya Hiremath** Karuna Shanker, Ashutosh K. Shukla, Velusamy Sundaresan. Effect of salt stress on seed germination, morphology, biochemical parameters, genomic template stability, and bioactive constituents of *Andrographis paniculata* Nees. **Acta Physiologiae Plantarum** **43:68** <https://doi.org/10.1007/s11738-021-03237-x> **2021 (IF: 1.76) (NAAS Score: 7.61)**
11. Swati Singh, Alka Kurmi, M. R. Swamy Gowda, Munmun Kumar Singh, **Channayya Hiremath**, Velusamy Sundaresan, Sudeep Tandon, Rajendra Chandra Padalia, Rajesh Kumar Verma, Dharmendra Saikia & Ram Swaroop Verma (2022): Chemical investigation, quality assessment, and antimicrobial activity of davana (*Artemisiapallens* Wall. ex DC) essential oil collected from different locations in India, *Journal of Essential Oil Research*, DOI:10.1080/10412905.2022.2063957 **2022. (1.94)**.
12. Y. N. Venkatesh, T. Neethu, M. Ashajyothi, Veeresh Kumar & **Channayya Hiremath** Pollinator activity and their role on seed set of medicinal and aromatic Lamiaceae plants, **Journal of Apicultural Research**, DOI: 10.1080/00218839.2022.2080949 **2022 (2.584)**

14. Book Chapters (provide bullet wise details)

Nil

15. Patents (provide bullet wise details)

Nil

16. Varieties (provide bullet wise details)

- Basil: CIM – Sukhda: High Linalool (75-80%) content. Herb yield -225-230 kg/ha and oil yield -100-105 kg/ha.
- *Ocimum gratisimum*: CIM – Akshay: Source of Thymol
- Herb yield-500-550 q/ha and oil yield 200-220 kg/ha.
- Lemongrass: CIM – Atal: Geraniol as a major constituent, Herb yield-250-300 q/ha/y and Oil yield-300-325 kg/ha/y.
- *Eucalyptus citriodora*: CIM-Nandi: *high-oil and high-citronellal*
- Lemongrass: CIM-Krishnapriya-High oil yielding variety

17. Technologies developed (provide bullet wise details)

Nil

18. Technologies transferred (provide bullet wise details)

Nil

19. Research Scholars (provide details)

Nil

20. Any other information you may want to show

Nil