


Faculty Profile

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| Name | Dr. Hirakant V. Kalpande |  |
| Designation | Head & Professor (CAS), Department of Agril. Botany, VNMKV, Parbhani (M.S.) | |
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Academic Qualifications

| Degree | Specialization | University | Year of passing |
|---|---|--|-----------------|
| UG | B.Sc. (Agriculture) | Punjabrao Krishi Vidyapeeth, Akola (M.S.) | 1992 |
| PG | M.Sc. Agril. Botany (Cytogenetics & Plant Breeding) | Mahatma Phule Krishi Vidyapeeth, Rahuri (M.S.) | 1994 |
| Ph.D. | Ph.D. Agriculture (Genetics & Plant Breeding) | Punjabrao Krishi Vidyapeeth, Akola (M.S.) | 1999 |
| Additional Qualification(if any): Additional Degree/Diploma/NET/SET | | | |
| Post Doctoral Commonwealth Fellow | Molecular Cytogenetics | University of Leicester, United Kingdom | 2007-08 |
| NET(ASRB) | Plant Breeding | A.S.R.B.(ICAR), New Delhi | 1997 |
| MS-CIT | Information Technology | M.S.B.T.E., Mumbai | 2003 |

Professional Experience

| Stream | Years | Stream | Years |
|-----------|-------|----------------|-------|
| Teaching | 18 | Research | 05 |
| Extension | Nil | Administration | 03 |

Area of Research/Interest :

- Sorghum Breeding

Research Guidance

| Degree | No. of student guided |
|--------|-----------------------|
| M.Sc. | 22 |
| Ph.D. | 08 |

Research Accomplishments (Recent Ten Most important Publications)

| Sr. No | Authors | Title | Journal | ISSN/ISBN Number | NAAS rating |
|--------|---|--|--|------------------|-------------|
| 1. | A.B. Pillewad, H.V. Kalpande , R.R. Dhutmal | Character association and path analysis studies in high yielding mutants of post rainy Sorghum (<i>Sorghum bicolor</i> (L.)) Moench | AMA 2023 Oct.2023 16785- | 00845841 | 6.30 |
| 2. | A. W. More, D. B. Deosarkar and H. V. Kalpande | Heterosis for fodder yield and its contributing traits in | Agricultural Mechanization in Asia, Africa and Latin | 00845841 | 6.14 |

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|-----|---|--|--|-------------|------|
| | | dual purpose sorghum (<i>Sorghum bicolor</i> (L.) Moench.) hybrids | America 53 (12) 10981-10988 | | |
| 3. | H. V. Kalpande , S. M. Surashe, Ashok Badigannavar, A. W. More and T. R. Ganpathi | Induced variability and assessment of mutagenic effectiveness and efficiency in sorghum genotypes (<i>Sorghum bicolor</i> (L.) Moench) | International Journal of Radiation Biology Dec. 2021 | 0955-3002 | 8.37 |
| 4. | A. W. More, H. V. Kalpande , R. R. Dhutmal & S. P. Mehetre | Development of dual purpose Sorghum (<i>Sorghum bicolor</i> (L.) Moench) hybrid for <i>kharif</i> season having higher grain and fodder yield of SPH 1641 | Bangladesh J. Bot. 50(2) June-2021 245-251 | 0253-5416 | 6.21 |
| 5. | R.R. Dhutmal and H.V. Kalpande | Genetic Divergence and Principle Component Analysis in Upland Rainfed Rice (<i>Oryza sativa</i> L.) | Bangladesh J. Bot. 46 (1) : 125-132 | 0253-5416 | 6.30 |
| 6. | H. C. Sharma, V. R. Bhagwat, R. S. Munghate, S. P. Sharma, D. G. Daware, D. B. Pawar, A. A. Kumar, Belum V. S. Reddy, K. B. Prabhakar, S. P. Mehtre, H. V. Kalpande and S. R. Gadakh | Stability of resistance to sorghum shoot fly, <i>Atherigona soccata</i> | Field crops research 178 : 34-41 | 0378-4290 | 8.98 |
| 7. | Shejul, M. B., Deosarkar, D. B. and Kalpande H. V. | Variability studies for grain quality characters in upland rice (<i>Oryza sativa</i> L) | African J. Agril. Res. 8(38): 4872- 4875. | 1991- 637 x | 6.00 |
| 8. | DN Pachkhande, HV Kalpande, V. N. Chinchane, KS Baig, JD Deshmukh | Combining ability analysis for fiber quality traits in desi cotton (<i>Gossypium arboreum</i> L.) across the environment | International Journal of Advanced Biochemistry Research 2024 8 (2) Jan. 2024 466-472 | 2617-4693 | 5.29 |
| 9. | Mohammedi Begum, More AW, Kalpande HV , Tirkar AN | A study on the genetic variability and heritability for grain yield and its parameters in brown midrib sorghum (<i>Sorghum bicolor</i> (L.) Moench) | The Pharma Innovation Journal 2023 12 (11) Oct. 2023 1862-1865 | 2277-7695 | 5.23 |
| 10. | S. L. Lagad, Dr. D. K. Zate, Y. S. Borde, V. S. Chavan, Dr. H. V. Kalpande , and Mohammedi Begum | Correlation and path analysis study in grain amaranthus (<i>Amaranthus hypochondriacus</i> L.) genotypes | The Pharma Innovation Journal 2023 12(12) Oct. 2023 1411-1416 | 2277-7695 | 5.23 |

Credentials

| Particulars | Numbers | Particulars | Numbers |
|--------------------------|---------|---------------------|---------|
| Research Articles | 143 | Popular Articles | 35 |
| Books | 11 | Book chapters | 05 |
| Research Recommendations | 03 | Varieties Developed | 10 |
| Patents | Nil | Abstracts Published | 170 |
| Technical Publication | 11 | | |

Significant Achievement (Top Five)

| Patent/IP/Technologies/Varieties Developed/ Methodologies/ Recommendations | Year |
|--|------|
| 1. Kharif Sorghum hybrid SPH 1641 | 2015 |
| 2. Parbhani Shakti (First Biofortified variety) | 2018 |
| 3. Single cut forage sorghum variety SPV 2387 | 2018 |
| 4. Rabi sorghum Variety Parbhani Supermoti | 2019 |
| 5. Hurda/ Parched Sorghum variety Parbhani Vasant | 2021 |

Externally Funded Projects (Supervised/Handled/Assisted)

- 1) Genetic improvement of sorghum (*Sorghum bicolor* L. Moench) for earliness and grain yield through induced mutation. Funded by **BRNS- BARC**, Mumbai. (As **PI, 2017 to till date, Rs. 28.79 Lakh**)
- 2) **Harvest Plus** project entitled “Identification of micronutrients-dense sorghums for better health in India.” Funded by Bill & Melinda Gate Foundation through **ICRISAT**, Hyderabad. (As **PI, 2015-2018, 15 Thousand Dollars**)
- 3) Post rainy season adapted dual purpose and forage sorghum for higher yield and quality for improving livestock under CGIAR research programme on Dry land Cereals (**CRP**) for Sorghum productivity and farmers livelihood Funded by Bill & Melinda Gate Foundation through **ICRISAT**, Hyderabad. (As **PI, 2013-2016, Rs.- 11.56 Lakh.**)
- 4) **HOPEICRISAT Project** (Harnessing Opportunities for Productivity Enhancement of *Rabi* Sorghum), Funded by Bill & Melinda Gate Foundation through **ICRISAT**, Hyderabad. (As **PI, 2013-2015, Rs.- 1.15 Crores.**)
- 5) “Enhanced utilization of sorghum and pearl millet grains in poultry feed industry to improve livelihoods of small-scale farmers in Asia”. Funded by **CFC-FAO-ICRISAT**, Hyderabad. (As **Co-PI, 2005-2008, Rs.- 45.46 Lakh.**)

Awards/Recognition:

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| 1. | Commonwealth Academic Staff Fellowship 2007 at University of Leicester, UK |
| 2. | Special Recognition certificate for successfully implementation of CFC- FAO-ICRISAT -VNMKV project on sorghum by DG ICRISAT in 2009. |
| 3. | Outstanding Partnership Award-Asia 2014 by DG ICRISAT for implementation of HOPE project |
| 4. | Certificate of Best Worker by Hon’ble Vice-Chancellor, VNMKV, Parbhani in 2005, 2010, 2013, 2018 |
| 5. | Letter of Appreciation by Commanding Officer, NCC, Nanded in 2012 |