

Dr. Swarupa Agnihotri

Designation: Assistant Professor

Department: Department of Botany

Contact Information

- **Email:** svagnihotri@vpmthane.org
- **LinkedIn / ResearchGate / Google Scholar:** [Links, if applicable]

[Dr. Swarupa Agnihotri - Google Scholar](#)

Educational Backgroud

- Ph.D. in Botany, Specialization Plant Physiology, Shivaji University, Kolhapur, 2013
- M.Phil. in Botany, Specialization Plant Physiology, Shivaji University, Kolhapur, 2009
- M.Sc. in Botany, Specialization Plant Physiology, Shivaji University, Kolhapur, 2007

Areas of Expertise / Research Interests

- Plant physiology
- Stress physiology
- Herbal products

Teaching Interests

- Plant Physiology
- Plant Biochemistry
- Plant Anatomy
- Classical Botany

Professional Experience

- Assistant Professor, Wilson College, 03 Year
- Assistant Professor, B.N. Bandodkar College, Working

Publications & Research

- **S.S.Kulkarni and P.D. Chavan (2010).** Effect of waterlogging on seed germination and biochemical changes in ragi (*Eleusine coracana* Gaertn.). *Bioinfolet*, **7**(2): 118-120.
- **S.S.Kulkarni and P.D. Chavan (2012).** Effect of waterlogging on some organic constituents of ragi (*Eleusinecoracana*Gaertn.) and rice (*Oryza sativa* L.) roots. In: *Proc. Of State level seminar on Recent innovative trends in plant sciences*. ISBN 978-81-924995-1-2, Pp: 59-65.
- **S.S.Kulkarni and P.D. Chavan (2012).** Influence of lactic acid on seed germination of finger millet (*Eleusine coracana* Gaertn.). *Int J App Biol Pharm Tech.*, **3**(4): 242-247.
- **S.S.Kulkarni and P.D. Chavan (2013).** Influence of Waterlogging on Carbohydrate Metabolism in Ragi and Rice Roots. *J Stress Physio lBiochem.*, **9** (2): 199-205.
- **S. S. Kulkarni and P. D. Chavan** (2013). Study of some aspects of anaerobic metabolism in roots of finger millet and rice plants subjected to waterlogging stress. *Int J. Bot.*, **9**(2):80-85.
- **S. S. Kulkarni** (2014). Influence of waterlogging on antioxidant metabolism in ragi and rice. *Bioinfolet*,**11**(1A):70-73
- **S. S. Kulkarni and P. D. Chavan** (2014). Study of effect of waterlogging on root anatomy of ragi and rice. *American journal of plant physiology*,**9**(2): 46-51.
- **S. S. Kulkarni and P. D. Chavan** (2014). Effect of Ethanol on Germination and Enzyme Activities in Finger millet (*Eleusine coracana* Gaertn.) Seeds. *J Stress Physiol.Biochem.*, **10** (3): 166-175
- **P.Patil and S. Agnihotri (2019).** Study of seed germination and enzyme metabolism during allelopathic interaction of *Trianthema portulacastrum* L. and fenugreek seeds. *Current Agriculture Research Journal*, **7**(1) :90-98
- **Swarupa V Agnihotri and Sunita H Jadhav (2025).** Microgreens: A Critical Review on Physiology and Bioactive Compounds. *Acta Scientific Agriculture*, **9**(7): 36-43

Book Chapters

- 1) **S. S. Kulkarni and V. Nikam** (2014). "Productivity of Finger Millet: A Review" In: *Major Constraints and Verdict of Crop productivity*, (Publ.) Daya Publishing House, New Delhi
- 2) **S.V. Agnihotri** (2021). "Chemical composition and Biological Properties of *Centratherum anthelminticum* (L.) Kuntze" In: Bioactives and Pharmacology of Medicinal Plants, (Ed.) Pullaiah, T., (Publ.) Apple Academic Press (CRC), Vol. 1, Pp 147.
- 3) **S.V. Agnihotri and V. Nikam** (2022). "Waterlogging Stress: ROS Generation and Its Effects on Plants." In: Plant metabolites under environmental stress. Mechanism, Responses and adaptation strategies. (Eds.) Desai, N., Patil, M. and Pawar, U., (Publ.) Apple Academic Press (CRC), Pp 61
- 4) **S.V. Agnihotri** (2023). "Biomolecules and Therapeutics of *Flueggea leucopyrus* Willd. [Syn.: *Securinega leucopyrus* (Willd.) Müll.Arg.]" In: Bioactives and Pharmacology of Medicinal Plants, (Ed.) Pullaiah, T., (Publ.) Apple Academic Press (CRC), Pp 93

Editor

- Editor for the book entitled " Advances in Plant Science" Volume V (ISBN: 978-93-91768-67-6). Bhumi Publishing house.
- Editor Board Member of AS Agriculture journal from Acta Scientific Open International Library.
- Editor for the book entitled ' Biostimulant and Plant Growth Regulators' Volume -I (ISBN- 978-81-981142-7-3)

Awards & Recognitions

- Stud 3rd in G.V. Joshi seminar competition (2007), in Department of Botany, Shivaji University, Kolhapur.
- Awarded by DST-PURSE fellowship
- Appointment of Facilitator Trainers for the British Skill Climate Skill Program