



INSTITUTE OF HIGHER LEARNING AND SPECIALIZED STUDIES (IHLR & SS)

(Gondwana University Sanction Letter No. GUG/DIIL/458/2019 Dt.26/11/2019)

BOTANY DEPARTMENT

Faculty Profile

- **Name** : **Dr. Prashant J. Wagh**
- **Date of Birth** : **24th August, 1979**
- **Unique ID (Adhar No.)** : **740027964673**
- **Educational Qualification** : **M. Sc., Ph. D. Botany**
- **Work Experience**
 - **Teaching** : **10 Years at UG and PG levels**
 - **Research** : **04 Years as Research Supervisor**
 - **Industry** : **No Experience**
- **Area of Specialization** : **Molecular Biology, Plant Physiology, Biochemistry, Biotechnology, Diversity, Ethnobotany**
- **Courses taught** : **B. Sc., M. Sc. and Ph. D.**
- **Research Guidance** : **Total 04 students perusing Ph. D.**
- **Number of papers presented**
 - **National Conference** : **13**
 - ✓ **Prashant Wagh** (2024). Alginate, Chitosan Biopolymers and their depolymerized Oligomers for short term storage of Banana (*Musa sp.*). Oral presentation in National Conference on Innovative Trends in Higher Education and Research organized by RMG Arts, Commerce and Science College, Saoli, Dist. Chandrapur (M. S.)
 - ✓ **Prashant Wagh** (2024). Alginate and its Depolymerised Derivatives: Novel Stimulators for Crop performance. Poster Presentation in National level conference, 'Emerging Trends in Science and Technology for Sustainable Development' organized by Netaji Subhashchandra Science College, Mulchera.
 - ✓ **Prashant Wagh** (2024). Depolymerized derivatives of Alginate as a Novel Plant Growth and Defence stimulators. Paper presentation National Conference on "Current Trends in Plant Sciences" organized by Department of Botany, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur on Thursday, 29th February 2024.
 - ✓ **Prashant Wagh** and Arvind Choudhary (2009). Growth-promotion of Spinach by using radiation induced depolymerised natural polysaccharides. Abstract in National Conference on Recent Trends in Biosciences, Govt. Institute of Science, Nagpur (MS), India, pp 27-28.
 - ✓ Rangari, P. D., Badge, P. K., Tiwari, R. A. and **Wagh P. J.** (2009). Postharvest Storage of betel leaf (*Piper betle Linn*). Abstract in National Conference on Recent Trends in Biosciences, Govt. Institute of Science, Nagpur (MS), India, pp 61.
 - ✓ Bhoge, S. S., Khalatkar, S. D., Thakre, M. T. and **Wagh, P. J.** (2009). Biopolymers increase the storage life of flowers. Abstract in National Conference on Recent Trends in Biosciences, Govt. Institute of Science, Nagpur (MS), India, pp 60.
 - ✓ Gupta, M. A., Laturkar, S. V., Sahare, M. K. and **Wagh, P. J.** (2009). Natural Biopolymers and their radiation degraded oligomers for short term storage of Banana (*Musa sp.*). Abstract in National Conference on Recent Trends in Biosciences, Govt. Institute of Science, Nagpur (MS), India, pp 65.
 - ✓ **Wagh P. J.**, Saoji D. D. and Choudhary A. D. (2008). Alginate and Chitosan as Natural Plant Growth Promoter. Abstract in National Conference on Biodiversity, Conservation and Sustainable Development, P. G. T. D. of Botany, RTM Nagpur University, Nagpur (MS), India, pp 64-65.
 - ✓ Ugale C. V., Phate P. V. and **Wagh P. J.** (2008). Callus Induction in *Psophocarpus tetragonolobus*. Abstract in National Conference on Biodiversity, Conservation and Sustainable Development, P. G. T. D. of Botany, RTM Nagpur University, Nagpur (MS), India, pp 62.
 - ✓ Rampure N. H., Warghat A. R. and **Wagh P. J.** (2008). In Vitro Callus Induction in *Ablemoschus moschatus* (L.) Medic using different Hormone concentrations. Abstract in National Conference on Biodiversity, Conservation and Sustainable Development, P. G. T. D. of Botany, RTM Nagpur University, Nagpur (MS), India, pp 65.

- ✓ Dahake V. S., Gondane S. A., and **Wagh P. J.** (2008). Gamma ray induced Stimulation in Seedling Growth of *Mimosa pudica*. Abstract in National Conference on Biodiversity, Conservation and Sustainable Development, P. G. T. D. of Botany, RTM Nagpur University, Nagpur (MS), India, pp 65.
- ✓ Naaz F., Dandekar S. P. and **Wagh P. J.** (2008). Callus induction in *Clitoria ternatea*. Abstract in National Conference on Biodiversity, Conservation and Sustainable Development, P. G. T. D. of Botany, RTM Nagpur University, Nagpur (MS), India, pp 66.
- ✓ Saoji D. D., **Wagh P. J.**, Ramnani S. P., Sabharwal S. and Choudhary A. D. (2006) Growth stimulant activity of radiation degraded oligos of Chitosan and Alginate. Abstract in BARC Golden Jubilee and DAE-BRNS Life Science Symposium on Trends in Research and Technologies in Agriculture and Food sciences, Bio-Medical Group Bhabha Atomic Research Center, Trombay, Mumbai (MH), India, pp 131.

➤ **International Conference : 03**

- ✓ **Prashant Wagh** and Mrunal Kale (2023). Potential of Ecotourism through Biodiversity Conservation at Anandwan. Paper presentation at International, Interdisciplinary Conference on Tourism, Bio-Diversity Conservation and Development organized by Janata Mahavidyalaya, Chandrapur (M. S.) on 26-27th December, 2023. .
- ✓ **P. J. Wagh**, D. D. Saoji and A. D. Choudhary (2008). Effect of Chitosan and Its Oligos on Shelf Life and Quality of Tomato. Abstract in International Conference on Novel Approaches for Food and Health Security in High Altitudes, DIHAR, DRDO, Leh- Ladakh (J and K), India, pp 73-74.
- ✓ D. D. Saoji, **P. J. Wagh**, S. P. Ramnani, S. Sabharwal and A. D. Choudhary (2006). Plant growth promoting activity of radiation depolymerised Alginate and Chitosan. Abstract in International 2nd Biotech Congress on Innovations in Biotechnology and their Applications, Rajiv Gandhi Biotechnology Centre; RTM Nagpur University, Nagpur (MS), India, pp 169.

• **Number of papers published**

➤ **National Journal : 01**

- ✓ **Wagh P. J.**, Kale, M. C. and Kamdi, R. R. (2015). Simplified protocols to explore bioinformatics database. Proceeding of the National Seminar on Recent Trends in Bioinformatics and Biostatistics-2015 organized by UGC and Dept. of Zoology, Shri Dnyanesh Mahavidyalaya, Nawargaon. Harivansh Prakashan, Chandrapur (ISBN-978-93-83912-03-2) pp 111-114.
- ✓ Avinash Aney, A. D. Choudhary and **Prashant Wagh** (2012). Cytological Effect of Gamma radiation on two varieties of Pea (*Pisum sativum* L.). Journal of Cytology and Genetics, Vol. 13 (NS) pp 15-22.

➤ **International Journal : 07**

- ✓ Ratan Dhanorkar, Nagesh Bodhe, Esarat Ansari, **Prashant Wagh** and Mrunal Kale Growth performance of planted native species at Aforestation site. International Journal of Researches in Biosciences, Agriculture and Technology. e-ISSN 2347 – 517X.
- ✓ **Wagh, P. J.** and Kale, M. C. (2017). Skill acquisition for Ethnobotany Research. Int. J. of Res. In Biosci. Agri. Tech. (2347-517X) Vol. V, pp 211-213.
- ✓ **Wagh P. J.**, Kale, M. C. and Kamdi, R. R. (2015). Simplified protocols to explore bioinformatics database. Proceeding of the National Seminar on Recent Trends in Bioinformatics and Biostatistics-2015 organized by UGC and Dept. of Zoology, Shri Dnyanesh Mahavidyalaya, Nawargaon. Harivansh Prakashan, Chandrapur (ISBN-978-93-83912-03-2) pp 111-114.
- ✓ **Wagh, P. J.**, Patil, V. W. and Kale, M. C. (2014) Effect of soluble chitosan application on *in vitro* germination of dormant *Colchicum luteum* Baker corms. Int. J. of Res. In Biosci. Agri. Tech. (2347-517X) Vol. pp 179-182.
- ✓ Ashish R. Warghat, Nandkishor H. Rampure and **Prashant Wagh** (2011). Effect of sodium azide and gamma rays treatments on percentage germination, survival, morphological variation and chlorophyll mutation in Musk Okra (*Ablemoschus moschatus* L.). Indian Journal of Pharmacy and Pharmaceutical Sciences, Vol. 3 Suppl. 5, pp 483-486.
- ✓ Chetna V. Uagle, Ashish R. Warghat, Priti V. Phate and **Prashant Wagh** (2011). Callus induction studies in *Psophocarpus tetragonolobus* (L.). International Journal of Pharmaceutical Sciences Review and Research, 11 (2) pp 30-32.
- ✓ A. R. Warghat, N. H. Rampure and **P. Wagh** (2011). In vitro callus induction of *Ablemoschus moschatus* Medik. L. by using different hormone concentration. International Journal of Pharmaceutical Sciences Review and Research, 10 (2) pp 82-84.

• **Ph. D. Guidance**

➤ **Completed : -Nil-**

➤ **Ongoing : 04**

• **Research Projects Carried out**

➤ **Completed : 01** (Scouting and Documentation of Traditional Knowledge and Grassroots Innovations from Warora, Chimur and Bhadrawati Tehsil in Chandrapur District of Maharashtra. A Minor Research Project Sponsored by National Innovation Foundation-India, Gandhinagar, Gujrat.)

➤ **Ongoing : 01** (Investigations on Vegetative Propagation Potential of a potent Medicinal Plant, *Cissus quadrangularis* L. A Minor Research Project sponsored by Innovation, Incubation and Linkage Cell, Gondwana University Gadchiroli. Maharashtra.)

• **Patents**

➤ **Granted : -Nil-**

- **Filed** : **-Nil-**
- **Technology Transfer** : **- Nil-**
- **Book Publications**

➤ **National Publication** : **05**

- ✓ **A Text Book of Biochemistry, Molecular Biology and Biotechnology.** First Edition 2012. G. C. Publishers, Nanadanwan, Nagpur. ISBN: 978-81-925501-2-1.
- ✓ **Basic Botany – I: A Text Book for B. Sc. Semester - I** as per NEP2020 Gondwana University, Gadchiroli (2024). Sai Jyoti Publication, Nagpur, India. ISBN: 978-81-19931-69-9
- ✓ **Gardening and Landscaping – A Vocational Skill Course (VSC) Botany Practical Manual for B. Sc. Semester – I** As per NEP, 2020 Gondwana University, Gadchiroli (2024). DNA Publication, Nagpur, India. ISBN: 978-81-9725255-0-2.
- ✓ **Mushroom Cultivation** As per the NEP-2020 (2024). Sai Jyoti Publication, Nagpur, India. ISBN: 978-81-19931-02-6.
- ✓ **Botany Practical Manual for B. Sc. Semester – I,** as per NEP-2020, Gondwana University, Gadchiroli. DNA Publication, Nagpur. ISBN: 978-81-972555-4-0.

➤ **International Publication** : **24**

- ✓ **Tissue Culture of *Abelmoschus moschatus*, A Medicinal Herb.** Manual Published by LAP LAMBERT Academic Publishing GmbH & Co. KG Heinrich-Böcking-Str. 6-8, 66121 Saarbrücken, Germany ISBN: 978-3-659-11597-4.
- ✓ **Botany Practical Handbook** (2019). LAP LAMBERT Academic Publishing. ISBN:978-3-659-78697-6
- ✓ **Monograph of Sub-classes Arecidae and Lilidae –Special reference to Report from Maharashtra State (India)** (2020). LAP LAMBERT Academic Publishing. ISBN:978-620-2- 79558-6.
- ✓ **Bioinformatics Studies in *Terminalia arjuna* – A Review** (2020). LAP LAMBERT Academic Publishing. ISBN: 978-620-2- 79559-3.
- ✓ **Monografia delle sottoclassi Arecidae e Lilidae – Riferimento speciale alle relazioni dello Stato indiano del Maharashtra** (2020). Edizioni Sapienza Website: <https://sciencia-scripts.com> Book language: Italian ISBN-13: 978-620-2-71468-6 ISBN-10: 6202714689 EAN: 9786202714686.
- ✓ **Monografia podklas Arecidae i Lilidae – Specjalne odniesienie do sprawozdan stanu Maharasztra w Indiach** (2020). Wydawnictwo Nasza Wiedza Website: <https://sciencia-scripts.com> Book language: Polish. ISBN-13: 978-620-2-71471-6 ISBN-10: 6202714719 EAN: 9786202714716.
- ✓ **Monografie van de subklassen Arecidae en Lilidae Speciale verwijzing naar rapporten van de Indiase deelstaat Maharashtra** (2020) Uitgeverij Onze Kennis. Website: <https://sciencia-scripts.com> Published on: 2020-08-25 Book language: Dutch. ISBN-13: 978-620-2-71470-9 ISBN-10: 6202714700 EAN: 9786202714709.
- ✓ **Monographie des sous-classes Arecidae et Lilidae Référence spéciale aux rapports de l'État indien du Maharashtra** (2020). Editions Notre Savoir Website: <https://sciencia-scripts.com> Published on: 2020-08-25 Book language: French ISBN-13: 978-620-2-71467-9 ISBN-10: 6202714670 EAN: 9786202714679.
- ✓ **Monographie der Unterklassen Arecidae und Lilidae Besondere Bezugnahme auf Berichte aus dem indischen Bundesstaat Maharashtra** (2020). Verlag Unser Wissen Website: <https://sciencia-scripts.com> Published on: 2020-08-25 Book language: German ISBN-13:978-620-2-71464-8 ISBN-10:6202714646 EAN:9786202714648.
- ✓ **Monografia das Subclasses Arecidae e Lilidae Referência especial aos relatórios do Estado de Maharashtra, na Índia** (2020) Edições Nosso Conhecimento Website: <https://sciencia-scripts.com>Published on: 2020-08-25 Book language: Portuguese ISBN-13: 978-620-2-71472-3 ISBN-10: 6202714727 EAN: 9786202714723.
- ✓ **Monografía de las subclases Arecidae y Lilidae Referencia especial a los informes del Estado de Maharashtra de la India** (2020). Ediciones Nuestro Conocimiento Website: <https://sciencia-scripts.com> Published on: 2020-08-25 Book language: Spanish ISBN-13: 978-620-2-71466-2 ISBN-10: 6202714662 EAN: 9786202714662.
- ✓ **Studi di bioinformatica in *Terminalia arjuna* (Roxb.) Wight Arn – Una rassegna** (2020). Edizioni Sapienza Website: <https://sciencia-scripts.com> Book language: Italian. ISBN-13: 978-620-2-69982-2 ISBN-10: 6202699825 EAN: 9786202699822.
- ✓ **Bioinformatik-Studium in *Terminalia arjuna* (Roxb.) Wight & Arn - Ein Rückblick** (2020). Verlag Unser Wissen. Website: <https://sciencia-scripts.com> Published on: 2020-08-21 Book language: German. ISBN-13: 978-620-2-69979-2 ISBN-10: 6202699795 EAN: 9786202699792.
- ✓ **Estudios bioinformáticos en *Terminalia arjuna* (Roxb.) Wight & Arn - Una revision** (2020). Ediciones Nuestro Conocimiento Website: <https://sciencia-scripts.com> Published on: 2020-08-21 Book language: Spanish ISBN-13: 978-620-2-69980-8 ISBN-10: 6202699809 EAN: 9786202699808.
- ✓ **Études de bioinformatique à *Terminalia arjuna* (Roxb.) Wight & Arn - Un bilan** (2020). Editions Notre Savoir Website: <https://sciencia-scripts.com> Published on: 2020-08-21 Book language: French ISBN-13: 978-620-2-69981-5 ISBN-10: 6202699817 EAN: 9786202699815.
- ✓ **Bio-informatica studies in *Terminalia arjuna* (Roxb.) Wight & Arn Een overzicht** (2020). Uitgeverij Onze Kennis Website: <https://sciencia-scripts.com> Published on: 2020-12-24 Book language: Dutch ISBN-13: 978-620-2-69983-9 ISBN-10: 6202699833 EAN: 9786202699839.
- ✓ **Badania bioinformatyczne w *Terminalia arjuna* (Roxb.) Wight & Arn - A Przegląd** (2020). Wydawnictwo Nasza Wiedza Website: <https://sciencia-scripts.com> Published on: 2020-08-21 Book language: Polish ISBN-13: 978-620-2-69984-6 ISBN-10: 6202699841 EAN: 9786202699846.
- ✓ **Estudos de bioinformática em *Terminalia arjuna* (Roxb.) Wight & Arn - Uma revisão** (2020). Edições Nosso Conhecimento Website: <https://sciencia-scripts.com> Published on: 2020-08-21 Book language: Portuguese ISBN-13: 978-620-2-69985-3 ISBN-10: 620269985X EAN: 9786202699853.
- ✓ **Plant Biotechnology- A Workbook for Undergraduate and Graduate Students** (2021). LAP LAMBERT Academic Publishing. ISBN: 978-620-3-92591-3.
- ✓ **BIOTECHNOLOGIE VÉGÉTALE Un manuel pour les étudiants de premier et de uxième cycles** (2021). Editions Notre Savoir Website: <https://sciencia-scripts.com>
- ✓ **PFLANZLICHE BIOTECHNOLOGIE Ein Arbeitsbuch für Studenten und Hochschulabsolventen** (2021) Verlag Unser Wissen Website: <https://sciencia-scripts.com>. ISBN-13: 978-620-3-81559-7 ISBN-10: 6203815594 EAN: 9786203815597.

- ✓ **BIOTECNOLOGIA VEGETALE Un libro di lavoro per studenti universitari e laureati** (2021) Edizioni Sapienza Website: <https://sciencia-scripts.com> ISBN-13: 978-620-3-81563-4 ISBN-10: 6203815632 EAN: 9786203815634.
- ✓ **BIOTECNOLOGIA VEGETAL Um livro de exercícios para estudantes de graduação e pós-graduação** (2021) Edições Nosso Conhecimento Website: <https://sciencia-scripts.com> ISBN-13: 978-620-3-81565-8 ISBN-10: 6203815659 EAN: 9786203815658.
- ✓ **BIOTECNOLOGÍA VEGETAL Un libro de trabajo para estudiantes de grado y posgrado** (2021). Ediciones Nuestro Conocimiento Website: <https://sciencia-scripts.com> ISBN-13: 978-620-3-81560-3 ISBN-10: 6203815608 EAN: 9786203815603

- **Book Chapter Publication**

- **National Publication** : **01**

- ✓ **Alginate, Chitosan and their depolymerised derivatives: Novel Growth Promoters for improving Crop Performance** in; Glimpse of Current Vistas in Plant Science Research Prof. A. D. Choudhary Commemoration Vol. Edt. by Makde K. H. and Pawar S. E. Hislop College Publication Cell ISBN: 978-81-910409-6-8

- **International Publication** : **-Nil-**

- **Date of Joining** : **15th February, 2014**
- **Date of Retirement** : **24th August, 2039**
- **Life Member** : **Indian Science Congress**
International Journal of Research in
Bioscience, Agriculture and Technology
- **Member** : **College Development Committee**