

ANKUR ARUN PATWARDHAN

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Date of Birth: 29th May 1975**Nationality:** Indian**Marital Status:** Married**Education**

- 1998 – 2004 **Ph.D.** (University of Pune, India) **Subject :** Environmental Sciences
Topic : Diversity and bio-control potential of aquatic fungi and their
relation with water quality
- 1995 – 1997 **M.Sc.** (Department of Environmental Sciences, University of Pune, India)
Subject : Environmental Sciences
- 1992 – 1995 **B.Sc** (Sir Parshurambhau College, University of Pune, India)
Major subject : Botany

Work experience

- 2003 – Present **Department of Biodiversity, Abasaheb Garware College, University of Pune, India**
Designation : Head
- 1998 – 2003 **Research and action in Natural Wealth Administration (RANWA)**
Position: Research Coordinator
- 2000 – 2001 **National Chemical Laboratory, Pune, India**
Position: Project Assistant
- 1999-2000 **Department of Environmental Sciences, University of Pune, India**
Position: Teaching Assistant
- 1997 - 1998 **Industrial Hygiene Laboratory, Lokmanya Medical Research Foundation, Pune, India**
Position: Research Associate

Affiliations

- **Life Member**, Maharashtra Education Society, Pune. (www.mespune.in)
- **Honorary Secretary**, Research & Action in Natural Wealth Administration, Pune. (www.ranwa.org)
- **Review Editor**, African Journal of Environmental Science and Technology (AJEST) (<http://ajol.info/index.php/ajest/about/editorialPolicies>), Science Research and Essays
- **Member, Editorial Board**, BIODIVERSITAS : Journal of Biological Diversity (<http://biodiversitas.mipa.uns.ac.id/D/editor.htm>)

- **Visiting Faculty**, Department of Environmental Sciences, University of Pune.

Other skills/interests/social commitment(s)

I am associated with various grass root level Community Organizations, Municipal Corporations working in the field of environmental awareness and conservation.

Research: My current research projects focus on recovery, including ex-situ and bioprospecting of threatened plant taxa from Western Ghats of India, one of the 34 global biodiversity hot-spots. It includes quantification and mapping of plant resources of Western Ghats, besides documenting traditional knowledge and community conservation practices. I also undertake environmental impact assessments (EIA) projects and management plans.

Teaching and supervision: I am heading Dept. of Biodiversity at Abasaheb Garware College, Pune. I am also involved in undergraduate and post graduate teaching for Biotechnology and Environmental Sciences respectively. I am currently supervising one doctorate student, five research fellows and four Masters' dissertations.

Memberships: In honorary capacities, I coordinate research activities at Research & Action in Natural Wealth Administration (RANWA), Pune, a NGO dedicated to Environmental Protection. I am a editorial board member of AJEST & BIODIVERSITAS.

Selected publications

1. **N Marathe, M Rasane, H Kumar, A Patwardhan, Y Shouche and S Diwanay. (2013). In vitro antibacterial activity of *Tabernaemontana alternifolia* (Roxb) stem bark aqueous extracts against clinical isolates of methicillin resistant *Staphylococcus aureus*. *Annals of Clinical Microbiology and Antimicrobials*. 12:26**
2. Mhaskar, M. Joglekar, A., Tadwalkar, M., Wagh, R., Patil, R., Chavan, B., Joshi, S., Gunaga, S., Manjunath, A., Thriveni, H., Vasudeva, R. and **Patwardhan, A.** (2013). Nursery techniques of *Embelia ribes* (Vidanga) : A red listed medicinal plant species. *Vansanshodhan Patrika*. Vol. 1/1:35-40
3. A Padhye, **A Patwardhan**.....A Patwardhan. (2013). Butterflies of Northern Western Ghats: A Compilation of Checklists. *Ela Journal*. Vol.2 (1) : 3-22.
4. S Pande, A Mahabal..... **A Patwardhan**. (2013). Biodiversity of the Parvati-Pachgaon Hills : A 'habitat island' in Pune Metropolis. *Ela Journal*. Vol.2 (1) : 23-41.
5. **Patwardhan, A.** , Mhaskar, M. , Joglekar, A. , Tadwalkar, M. , Wagh, R. and Vasudeva, R. Propagation and cultivation techniques of *Embelia ribes* (Vidanga) : A threatened medicinal plant species in " Underutilized and underexploited Horticultural crops", published by NIPA, N. Delhi. (*In Press*).
6. M. Tadwalkar, A. Joglekar, M. Mhaskar, R. Kanade, B. Chavan, A. Watve, K. N. Ganeshaiiah and **A. Patwardhan**. (2012). Dispersal modes of woody species from the northern Western Ghats, India. *Tropical Ecology*. 53(1): 53-67.
(http://www.tropecol.com/pdf/open/PDF_53_1/Art-06.pdf)
7. A. Kulkarni, **A. Patwardhan**, A. Upadhye, and N. Malpathak. (2011). Pharmacognostic evaluation of *Chonemorpha grandiflora*, an endangered medicinal plant. *International Journal of Pharmaceutical Sciences and Research (IJPSR)*. Vol. 2(10): 2690-2693.
([http://www.ijpsr.com/V2I10/32%20Vol.%20\(10\),%20IJPSR-834,%20Paper%2025.pdf](http://www.ijpsr.com/V2I10/32%20Vol.%20(10),%20IJPSR-834,%20Paper%2025.pdf))

8. M. Mhaskar, S. Joshi, B. Chavan, A. Joglekar, N. Barve and **A. Patwardhan**. (2011). Status of *Embelia ribes* Burm f. (Vidanga), an important medicinal species of commerce from northern Western Ghats of India. *Curr. Sc.* 100 (4) : 547-552.
(<http://www.ias.ac.in/currsci/25feb2011/547.pdf>)
9. Kulkarni, A., **Patwardhan, A.** and Malpathak, N. (2011). In vitro studies and secondary metabolite production in *Tabernaemontana alternifolia* L. in *Scholarly Articles in Botany*.
10. A. Kulkarni, **A. Patwardhan**, U. Lele and N. Malpathak. (2010). Production of Camptothecin in cultures of *Chonemorpha grandiflora*. *Pharmac. Res.* 2 (5) : 296-299.
(<http://www.phcogres.com>)
11. Gharpure, G., Chavan, B., Lele, U., Hastak, A., Bhave, A., Malpure, N., Vasudeva, R., **Patwardhan, A.** (2010). Camptothecin accumulation in *Ophiorrhiza rugosa* var. *prostrata* from northern Western Ghats. *Curr. Sc.* 98 (3) : 302-304.
(http://www.ankurpatwardhan.com/camptothecin_curr_sc.pdf)
12. Kanade, R., Tadwalkar, M. , Kushalappa, C. and **Patwardhan, A.** (2008). Vegetation composition and woody species diversity at Chandoli NP, northern Western Ghats, India. *Curr. Sc.* 95 (5) : 637-646. (<http://www.ias.ac.in/currsci/sep102008/637.pdf>)
13. Kanade, R., Goturkar, S., Pathak, N. and **Patwardhan, A.** (2008). Social and economic linkages of biodiversity conservation. A case study of *Ajeevali* sacred grove. In Nanditha Krishna (eds.) *Ecological Traditions of Maharashtra*. C.P.R.Environmental Education Centre. 93-98.
14. **Patwardhan, A.**, Sahasrabuddhe,K., Mahabaleshwarkar,M., Joshi,J., Kanade, R. and Goturkar, S. (2006). Changing Status Of Urban Water Bodies And Associated Health Concerns In Pune, India. In Sandipa Lahiri Anand (eds.) *Global Water Pollution : Perspectives and Cases*. ICFAI University Press, Hyderabad. 206-212.
15. **Patwardhan, A.**, Gandhe, R., Ghole, V. and Mourya, D. (2005). Larvicidal activity of the fungus *Aphanomyces* (oomycetes : Saprolegniales) against *Culex quinquefasciatus*. *J Commun Dis.* 37(4):269-74.
16. **Patwardhan, A.** (2005). in *Ecosystems and Human Well Being*. Vol. 4. Multiscale Assessments : Findings of the Sub-global Assessments Working Group, Millennium Ecosystem Assessment. Island Press, Washington, DC.
(<http://www.millenniumassessment.org/documents/document.347.aspx.pdf>)
17. Ghate, U., **Patwardhan, A.** and Waran, A. (2005). Reduced urban consumerism and enhanced rural bio-enterprises for food, water and climatic security. *Current Science.* 88(2): 213-214. (<http://www.ias.ac.in/currsci/jan252005/213.pdf>)
18. **Patwardhan, A.**, Kanade, R., Sahasrabuddhe, K., Nalavade,S., Ghotge, N., and U. Ghate. (2003). Social review of pastoral ecosystem services in Western India. *African Journal of Range and Forage Science*. Vol. 20. Pp.194-197.
19. **Patwardhan, A.**, Nalavade,S., Sahasrabuddhe, K. and Utkarsh, G. (2001). Urban wildlife and protected areas in India. *Parks. The international journal of protected area managers*. Vol. 11. No. 3. : 28-34.

Grants and awards : Few selected are given below with most recent first.

Mar 2012 – Mar 2017	All India Coordinated Research Project on Sacred Grove Ecosystem Service Assessment from Northern Western Ghats of Maharashtra <i>Current project</i>	Rs. 34.31 Lacs (Ministry of Environment & Forests, India)
Mar 2010 – Mar 2015	Biotechnological Interventions for conservation and utilization of forest resources. <i>Current project</i>	Rs. 16.66 Lacs (Department of Biotechnology, India)
Apr 2013- Mar 2014	Standardization of protocol for sustainable harvesting of plant resources in commercially important medicinal plants <i>Current project</i>	Rs. 2.82 Lacs (Forest Department, Maharashtra)
April 2013 – Mar 2015	Ecological assessment and determination of endophytic diversity of marine macroalgae (Seaweeds) from the Western Coast of Maharashtra <i>Current project</i>	Rs. 2.70 Lacs (BCUD, Univ. Of Pune)
April 2012 - Mar 2014	Developing sustainable harvest techniques of commercially important RET medicinal plant species <i>Current project</i>	2.29 Lacs (Forest Department, Maharashtra)
Apr 2013- Mar 2014	Assessing camptothecin content & evaluating anti-diabetic activity from two RET medicinal plant species <i>Current project</i>	Rs. 1.73 Lacs (Forest Department, Maharashtra)
April 2012 - Mar 2013	Documenting butterfly diversity, population & study of nectar plant choices from northern Western Ghats	Rs. 1.14 Lacs (Forest Department, Maharashtra)
May 2010 – Mar 2013	Development and Demonstration of Sustainable Methods of Harvesting of <i>Nothapodytes nimmoniana</i> under different Agro forestry Systems for optimizing the production of Camptothecin and related high value metabolites.	Rs. 23.40 Lacs (Department of Biotechnology, India)
Aug 2011 – July 2013	Identification of critical areas of conservation concern using RS-GIS technique from northern Western Ghats of India	Rs. 10.87 Lacs (ISRO-UoP)
Jan 2009 – Dec 2010	Conservation and promotion of endangered medicinal plant species from Western Ghats of India.	£ 11875 (Rufford Small Grants, UK)
May 2008 – Apr 2010	Application of GIS-RS in Mapping and Conservation of Threatened Medicinal Plant Species from NWG, India	Rs. 7.27 Lacs (ISRO-UoP)
May 2008 – Apr 2009	Plants and their Uses: Botany of the Sahyadris (with Dr. Suneeti Jog, University of Texas at Tyler, U.S.)	\$ 6500 (Nat. Geo., U.S.)
Jan 2008 – Dec 2009	Camptothecin (CPT) distribution in <i>Nothapodytes nimmoniana</i> and <i>Ophiorrhiza rugosa</i> : Endangered medicinal species from Western Ghats of India	Rs. 2.0 Lacs (BCUD, University of Pune)
Dec 2006 – May 2008	Domestication of <i>Nothapodytes nimmoniana</i> (Grah.) Mabb. : An endangered medicinal tree from Western Ghats of India	£ 4880 (Rufford Small Grants, UK)
June 2005 – Mar 2010	Mapping and Quantitative Assessment of Geographic Distribution and the Population Status of Plant Resources of Western Ghats (with Dr. K. N. Ganeshiah, UAS, Bangalore)	(Department of Biotechnology, India)

Selected conference / symposia contributions

- 2010 - Lead Indian team to **Pretoria, South Africa** (May 2010) for the development of '**Ecosystem Services Assessment Proposal**' under the **IBSA** (India-Brazil-South Africa) Trilateral Programme.
- 2008 – Delivered a talk titled 'Indian Urban Resource Millennium Assessment (IURMA)' at the follow up meeting of **Millennium Ecosystem Assessment (MA) at Kuala Lumpur, Malaysia in March 2008**.
- 2005 – Invited talk entitled 'Recovery Prospecting Of Endangered *Nothapodytes foetida* Through Community Participation' at **Society for Conservation Biology's Asia Conference at Kathmandu, Nepal in November 2005**.
- 2003 – Invited talk entitled 'Social Review Of Pastoral Ecosystem Services in Western India' at **VIIth International Rangeland Congress, held in Durban, South Africa in July 2003**.

Research-related activities**Organisation of workshops / conferences**

- National Biodiversity Conference (Feb 2012). Involving over 350 academicians, students, forest officials and NGOs
- Sacred Natural Sites workshop involving over 75 participants.
- Evolutionary Ecology workshop (Feb 2009). Involving over 100 participants (teachers and students)

Peer-review of journal papers

African Journal of Environmental Science and Technology (AJEST), Edinburgh Journal of Botany, Environmental Policy and Governance (EPG), Scientific Research and Essays, Current Science. Journal of Protected Area Network, Ecography, Biodiversitas

Environmental Awareness-related activities

Published over 100 popular articles in local media and conducted several radio programmes related to environmental education and biodiversity conservation.

Referees *Available on request*