

## Scientific Credentials

**Dr. Savita Sanjaykumar Rahangdale**

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<b>Research Papers in Journals:</b>	<b>Twenty Six (26)</b> (National and International Journals)
<b>Book</b> (with ISBN):	<b>One (01)</b> (Govt. of Maharashtra, Dept. of Forests)
<b>Booklets:</b>	<b>Six (06)</b> (Govt. of Maharashtra, Dept. of Forests)
<b>Text Books</b> (with ISBN):	<b>Nine (11)</b> (Vision Publications, Pune)
<b>Total:</b>	<b>Forty Five (45)</b>

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**Contribution to the Plant Sciences: Eight**

**Television Interviews / News:** Four

**Contribution to Plant Sciences**

**A. New plants described: Two**

- i) **New Species - *Ledebouria junnarensis* S.S. Rahangdale & S.R. Rahangdale *nom. nov.***  
(Asparagaceae) with the highest known chromosomes  $2n=70$  & IUCN status. (2016)
- ii) **New variety - *Ceropegia mahabalei* Hemadri et. Ansari var. *hemlatae* S.S. Rahangdale & S.R. Rahangdale** (2012)

**B. New Generic records to the State of Maharashtra: Two**

- i) ***Botrychium* Swartz.** (Botrychiaceae) Pteridophyte (2011)
- ii) ***Soliva* Ruiz & Pavon** (Asteraceae) (2016)

**C. New species records to the State of Maharashtra: Three**

- i) ***Anoda cristata* (L.) Schldl.** (Malvaceae) (2013)
- ii) ***Garnotia courtallensis* (Arn. and Nees.) Thw.** (Poaceae) (2009)
- iii) ***Cucumis dipsaceus* Ehrenb. ex Spach.** (Cucurbitaceae) (2016)

**D. Rediscoveries: One**

- i) ***Tillaea schimperii* (C.A. Meyer) M.G. Gilbert, H. Ohba & K.T. Fu.** (Crassulaceae). (2010)

#### E. Awards:

- ❖ Awarded with **Prof.S.N. Dixit Gold Medal Award** for the best poster paper in the Pharmacy presented Teacher/Scientists presented at the Annual Conference of the Indian Botanical society of the year 2019 at Calicut University, Calicut during 6-8 Nov. 2019, for the paper entitled, **Comparative anatomical study of *Gymnema* species from Maharashtra.**
- ❖ Awarded with **Mukta Sanman 2018** by News 18 Lokmat for outstanding work in Science.
- ❖ Awarded with **Phule Dampatya Sanman 2018** by Mahatma Phule Vichar Manch, Junnar for outstanding work in education and research.
- ❖ Awarded with **Samaj Prerana Puraskar 2018** by Late Ramchandji Babel Charitable trust, for setting a benchmark of Social work and research.
- ❖ Recognized Research guide for Ph.D. & M.Phil. by research of Savitribai Phule Pune University, Pune
- ❖ Awarded with **Late Prof. V.D. Vartak Memorial Cash Prize** for securing highest marks in Angiosperm Taxonomy in University of Pune Merit in M. Sc. Examination.

#### F. Details of Publications are enlisted below –

##### Research Papers

1. Ghate V.S., **Nagarkar S. B.** and H. D Sane 2002. Floral polymorphism and fruiting in Kumari (*Aloe vera*). *Journal of Medicinal and Aromatic Plant Sciences*, 24: 698-702.
2. **Nagarkar S. B. and** V. S. Ghate 2001. Status of Sacred Groves in Junnar Taluka, Pune District. *Proceedings of conference of Indian Women Scientist's Association*. 2002.
3. **Nagarkar S. B. and** V. S. Ghate 2004. Ethnobotanical and commercial utilization of medicinal plants-Resources from taluka Junnar, district Pune. *Focus on sacred groves & ethnobotany* published by MACS, Pune, 202-207.
4. Ghate V.S. **and Nagarkar S. B.** 2005. Occurrence, fruiting and seed morphology of endemic *Bulbophyllum fimbriatum* (Lindl.) Reichb. F. *Journal of Bombay Natural History Society*, 102(2): 255-256.

5. Patil C. R., S. R. Rahangdale, **S. S. Rahangdale** and S. C. Patil 2005. Occurrence of tricarpy in *Ceropegia attenuata* Hook. (Asclepiadaceae). *Current Science*, **88**(8): 1215, 25 APRIL 2005. **Impact factor: 0.5.** ISSN:0011-3891.
6. **Nagarkar Savita**, V. S. Ghate and S. R. Rahangdale 2006. Interesting Morpho-variables recorded in *Aerides maculosum* Lindl. *Journal of Bombay Natural History Society*, 103(1):136-137. April 2006. ISSN:0006-6982.
7. **Rahangdale S. S.**, V. S. Ghate and S. R. Rahangdale 2009. New Report from Maharashtra: *Garnotia courtallensis* (Arn. and Nees.) Thw. *Rheedea*, 19(1&2):12. ISSN:0971-2313.
8. **Rahangdale S. S.**, S. R. Rahangdale and V. S. Ghate 2010. Rediscovery of *Tillaea schimperi* (C.A. Meyer) M.G. Gilbert, H. Ohba and K.T. Fu. from Maharashtra. *The Indian Forester*, 136(6):851-853, June 2010. **H index: 4.** ISSN:0019-4816.
9. Rahangdale S. R. and **S. S. Rahangdale** 2011. *Botrychium* Swartz.: A new genus record from Maharashtra State. *The Indian Forester*, 137(12): 1462-1463. **H index: 4.** ISSN:0019-4816.
10. **Rahangdale S. S.** and S. R. Rahangdale 2012. Variety Novae of *Ceropegia mahabalei* Hemadri et. Ansari. *The Indian Forester*, 138(2):202-203. **H index: 4.** ISSN:0019-4816.
11. Mahendra Bhise, **S. S. Rahangdale**, S. R. Rahangdale and S. V. Kambhar 2013. Floristic Study of Kalbhairavanatha Sacred Grove, Terungan, Ambegaon Taluka, Pune. *Research & Reviews: Journal of Botany*, 2(1):17-24. ISSN:2320-0189.
12. Rahangdale S. R. and **S. S. Rahangdale**. 2013. *Anoda cristata* (L.) Schltld. (Malvaceae): A New Record for Maharashtra. *The Indian Forester*, 139(9):853-854. **H index: 4.** ISSN:0019-4816.
13. **Rahangdale S. S.** and S. R. Rahangdale 2014. Plant species composition on two rock outcrops from the Northern Western Ghats, Maharashtra, India. *Journal of Threatened Taxa*, 6(4):5593-5612. **NAAS index: 4.72** <http://dx.doi.org/10.11609/jott.o3616.5593-612> ISSN:0974-7907(online), 0974-7893(Print).
14. Rahangdale S. R. and **S. S. Rahangdale**. 2014. Potential wild edible plant resources from Maharashtra: Future prospects for their conservation and improvement. *Life Sciences Leaflets*, 57:73-85. **Impact Factor: 1.22; Index Copernicus: 15.8, NAAS index: 2.69.** ISSN 2277-4297(Print) 0976-1098(Online).
15. Bhise, M.R., **S.S. Rahangdale** & S.R. Rahangdale 2015. Effect of leaf harvesting on reproduction and natural populations of Indian Wild Banana *Ensete superbum* (Roxb.) Cheesman (Zingiberales: Musaceae). *Journal of Threatened Taxa* 7(5): 7181-7185;

- <http://dx.doi.org/10.11609/jott.o4004.7181-5> NAAS index: 4.72 ISSN: 0974-7907(online), 0974-7893 (Print).
16. **Rahangdale S. S.** and S. R. Rahangdale. 2016. Rediscovery, Systematics and proposed Red List status of *Ledebouria junnarensis* S. S. Rahangdale & S. R. Rahangdale nom. nov. (Asparagaceae) – an endemic species from the Western Ghats, Maharashtra, India. *Journal of Threatened Taxa* 8(2): 8421 – 8433. (26 February 2016). <http://dx.doi.org/10.11609/jott.2167.8.2.8421-8433> NAAS index: 4.72 ISSN:0974-7907(online), 0974-7893(Print).
  17. **Rahangdale S. S.** and S. R. Rahangdale. 2016. *Cucumis dipsaceus* Ehrenb. ex Spach.: A new record for Maharashtra state, India. *Life Sciences Leaflets* 75: 58 – 62. Impact Factor: 1.22; Index Copernicus: 15.8, NAAS index: 2.69. ISSN 2277-4297(Print) 0976–1098(Online). 1<sup>st</sup> May 2016.
  18. **Rahangdale S. S.** and S. R. Rahangdale. 2016. Eco-friendly synthesis of Silver nanoparticles from *Mundulea sericea* (Willd.) A. Chev.: Its antifungal activity. *In The Proceeding of National seminar on Nanotechnology: Environmental, Economic, Social & Health perspectives.* AWC Otur. 23 January 2016. Pp. 13-17. ISBN:987-93-5158-581-7.
  19. Bhuskute S. M., S. R. Rahangdale, **S. S. Rahangdale** and M. G. Awaley. 2016. *Soliva Ruiz & Pavon*: A new generic record to the flora of Maharashtra. *Life Sciences Leaflets* 78: 79 – 84. Impact Factor: 1.22; Index Copernicus: 15.8, NAAS index: 2.69. ISSN 2277-4297(Print) 0976–1098(Online). 1<sup>st</sup> August 2016.
  20. **Rahangdale S.S.** & S.R. Rahangdale. 2017. Floristic diversity of Bhimashankar Wildlife Sanctuary, northern Western Ghats, Maharashtra, India. *J. of Threatened Taxa* 9(8): 10493–10527; <http://doi.org/10.11609/jott.3074.9.8.10493-10527>. NAAS index: 4.72 ISSN: 0974-7907(online), 0974-7893(Print).
  21. **Rahangdale S. S.**, S. R. Rahangdale and A. N. Khupat 2018. Assessment of therapeutic usage of medicinal plants of Pune district, Maharashtra. *Life Sciences Leaflets* 98: 1 – 25. Impact Factor: 1.22; Index Copernicus: 78.3, NAAS index: 3.98. SJIF: 4.8, Cosmos IF: 4.366. ISSN 2277-4297(Print), 0976–1098(Online). 1<sup>st</sup> April 2018.
  22. **Rahangdale S.S.**, S. R. Rahangdale and A.N. Khupat 2019. A novel potential plant: *Crepidium versicolor* against wound microbes. *Indian Research Journal of Pharmacy and Science* 6(2): 1839-1844. <http://doi.org/10.21276/irjps.2019.6.2.2> ISSN(O):2349-5332.

23. **Rahangdale S.S** 2019. Phytochemical Analysis of *Gymnema* Complex from Maharashtra, Journal of Drug Delivery and Therapeutics. 2019; 9(2-s):316-318  
<http://dx.doi.org/10.22270/jddt.v9i2-s.2709>
24. Rahangdale S.S. & **S.R. Rahangdale** 2020. Resolving taxonomic problems in the genus *Ceropegia* L. (Apocynaceae: Asclepiadoideae) with vegetative micromorphology. *Journal of Threatened Taxa*12(9): 16064–16076; <http://doi.org/10.11609/jott.5004.12.9.16064-16076>. NAAS index: 5.0Scopus Impact factor 0.44. UGC-Care Category ‘A’ journal. ISSN:0974-7907(online), 0974-7893(Print).  
<https://threatenedtaxa.org/index.php/JoTT/article/view/5004>,  
<https://threatenedtaxa.org/index.php/JoTT/article/view/5004/6843>
25. Rahangdale S. S. and **S. R. Rahangdale**. 2020. Fluorescence and FTIR markers for different taxa of *Gymnema* drug complex from Maharashtra. *Plant Science Today*, 7(3): 333-340. July 2020. ISSN 2348-1900. Available at: <http://horizonepublishing.com/journals/index.php/PST/article/view/731>. Date accessed: 07 July 2020. doi: <https://doi.org/10.14719/pst.2020.7.3.731>.  
<http://horizonepublishing.com/journals/index.php/PST/article/view/731/424>.
26. **Rahangdale S S**, Rahangdale S R. Wetlands and diversity of angiosperm macrophytes in wetlands of Pune district, in Maharashtra, India. *Plant Science Today*. 2021;8(1):16–23. <https://doi.org/10.14719/pst.2021.8.1.849>

#### **Books Published:**

1. **Rahangdale S. R.** and S. S. Rahangdale, 2018. **Biodiversity of Durgawadi Plateaus** Department of Forests, Government of Maharashtra, Mumbai. Pp. 114 with >400 Photographs of Plants, Animals and Habitats. ISBN:978-93-5016-432-7

#### **Booklets**

1. **Rahangdale S. R.** and S. S. Rahangdale, 2011. “**Biodiversity in Genus *Ceropegia* L. in Junnar Forest Division**”, Department of Forest, Government of Maharashtra.
2. Rahangdale S. S. and **S. R. Rahangdale**, 2011. “**Junnar Vanvibhagatil *Ceropegia* L. Prajatimadhil Jaivavidhata**”. (Marathi) Department of Forest, Government of Maharashtra.
3. **Rahangdale S. R.** and S. S. Rahangdale, 2017. “**Pteridophytes of Junnar Forest Division**”. Department of Forest, Government of Maharashtra.

4. Rahangdale S. S. and **S. R. Rahangdale**, 2017. “Endemic Plants of **Junnar Forest Division**”. Department of Forest, Government of Maharashtra.
5. Rahangdale S. S. and **S. R. Rahangdale**, 2017. “**Medicinal plants of Junnar Forest Division**”. Department of Forest, Government of Maharashtra.
6. Rahangdale S. S. and **S. R. Rahangdale**, 2018. “**Durgawadi Plateaus- Home to Indian Endemics**”. Department of Forest, Government of Maharashtra.

### **Text Books**

1. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**. 2013. A Textbook of Industrial Botany I. ISBN-978-93-5016-209-5. Vision Publications, Pune.
2. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2014.A Textbook of Fundamental of Botany- Morphology & Anatomy Industrial Botany and Industrial Botany II. ISBN-978-93-5016-245-3. Vision Publications, Pune.
3. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2014. A Textbook of Taxonomy of Angiosperms & Plant Ecology. ISBN-978-93-5016-269-9. Vision Publications, Pune.
4. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2014. A Textbook of Plant Physiology. ISBN-978-93-5016-270-5. Vision Publications, Pune.
5. Rahangdale S. S. and **S. R. Rahangdale**.2015. A Textbook of Plant Biotechnology. ISBN-978-93-5016-305-4. Vision Publications, Pune. (Cover Photo by Dr. Rahangdale S.R.)
6. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2019.A Textbook of Plant life and Utilization- I. ISBN-978-93-5016-462-4. Vision Publications, Pune.
7. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2019.A **Textbook of Plant Morphology and Anatomy**. ISBN-978-93-5016-453-2. Vision Publications, Pune.
8. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2019.**Plant life and Utilization- II**. Vision Publications, Pune. ISBN-978-81-944620-3-3.
9. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2019.**Principles of Plant Science**. ISBN-978-81-945486-7-6. Vision Publications, Pune.
10. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2020.**Taxonomy of Angiosperms and Plant Ecology**. ISBN: 978-81-947753-2-4. Vision Publications, Pune.
11. Sane H.D., S. S. Rahangdale and **S. R. Rahangdale**.2020. **Plant Physiology**. ISBN: 978-81-947753-4-8. Vision Publications, Pune.

Beside the academics Dr. Rahangdale also works with Government systems for documentation and conservation of the Biodiversity, which is being used for policy making for further developments.

### **Interviews/ News on Television about different aspects of Nature Conservation**

1. An interview of Dr. S.S. Rahangdale on ‘Assessment and conservation of Biodiversity’ taken by Mr. Avinash Pawar, TV Reporter, Star Maza and Mr. Raichand Shinde, TV Reporter, IBN Lokmat was broadcasted on ‘**Star Maza**’ on 5<sup>th</sup> Dec. 2010.
2. News on the TV Channel **News 18 Lokmat** was broadcasted on 11/Nov/2017 about the efforts taken by us to conserve and develop the cultivation practices for the rare endemic plants.
3. **News 18 Lokmat** was broadcasted **Mukta Awards** in 2019.
4. An interview of “**Dr. S.S. Rahangdale on “ Conservation of Biodiversity”** on occasion of Navaratra festival in 2020.

### **Consultancy/ Expertise:**

1. **Honorary Botanist** to Ghod Project Division, Junnar, Department of Forests, Government of Maharashtra.
2. **Expertise outside BSI Scientists** on the ENVIS Biodiversity Portal of MoEF&CC, Govt. of India-[www.bsienviis.nic.in](http://www.bsienviis.nic.in)
3. **Member of IUCN.**

S. S. Rahangdale