

DR. M.K. RATHEESH NARAYANAN, Assistant Professor

Track Record – Academic

Degree	University	Year	Major subjects	Class
Ph.D. Botany	University of Calicut, Kerala	2010	Angiosperm Taxonomy	Doctoral Degree Awarded
B.Ed. Natural Science	Kannur University, Kerala	1997	Botany & Zoology	First class
M.Sc. Botany	University of Calicut, Kerala	1996	Botany	First class
B.Sc. Botany	University of Calicut, Kerala	1994	Botany, Zoology & Chemistry	First class

Ph. D. Thesis :

Floristic study of Wayanad district with special emphasis on conservation of rare and threatened flowering plants

Supervisor: Dr M. Sivadasan, Dean of Faculty of Science (Rtd.), University of Calicut, Kerala, presently with Department of Botany & Microbiology, College of Science, King Saud University, Riyadh, Kingdom of Saudi Arabia.

Employment details:

- March 2012 to date : **Assistant Professor**, Botany Department
Payyanur College, Kannur
- April 2007 to 2012 March : **Senior Scientist**,
Theme Leader
Biodiversity Programme
M S Swaminathan Research Foundation,
CAbC, Puthoorvayal, Wayanad – 673 121
- June 1999 to April 2007 : **Scientist**, Training and Education in Biodiversity,
M S Swaminathan Research Foundation
- August 1997 to May 1999 : **Senior Research Fellow**, Central Plantation Crops Research Institute
(CPCRI), Kasaragod

Professional Experience:

Thirteen years of working experience in sustainable agricultural and rural development programmes in hill area ecosystems; promoting conservation and sustainable use of Rare, Endemic and Threatened Plant species, medicinal plants and traditional crop varieties, wild relatives of crop plants and training and Education in conservation. Engaged in study of 80 RET plant species of Western Ghats and in a mission of planting 50,000 plants belonging to 100 RET trees species by the year 2012.

Affiliations:

- Member, Indian Association of Angiosperm Taxonomy
- Member, Indian Society for Conservation Biology
- Member, Indian Society of Ethno-Botanists
- Member, Mushroom Society of India

Honours and Awards:

Swadeshi Young Scientist Award, 2003. For the paper titled 'Gender dimensions and changing trends in utilization of wild edibles in Wayanad'. 13th Swadeshi Science Congress, November 2003.

BPR Yadav Young Scientist Award, 2005. For the paper titled 'Ethnobotany of wild edibles and its management, a case from Wayanad'. 15th National seminar of Indian Association for Angiosperm Taxonomy, Nagpur, October, 2005.

Research highlights: Plant Taxonomy (Last 5 Years):

			<u>New plant species</u>
<u>Author position</u>	<u>Year/Status</u>	<u>Citation</u>	<u>Journal</u>
1	2012	<i>Miliusa gokhalaei</i> Ratheesh , Anil & Sivadasan	Phytotaxa
2	2011	<i>Impatiens veerapazhasii</i> Ratheesh , Sujanapal & Meera	J. Bot. Res. Inst. Texas
1	2011	<i>Impatiens minae</i> Ratheesh , Anil Kumar & Sivad.	Bangladesh J. Plant Taxon.
1	2010	<i>Miliusa wayanadica</i> Sujanapal, Ratheesh & Sasidh.	J. Bot. Res. Inst. Texas
1	2010	<i>Oberonia swaminathanii</i> Ratheesh , Manudev & Sujanapal	Nordic Journal of Botany
1	2012	<i>Memecylon wayanadense</i> Ratheesh , Sivu & Pradeep	Edinburgh Journal of Botany
1	2012	<i>Impatiens mohana</i> Ratheesh , Sujana & Anil	Edinburgh Journal of Botany
1	2012	<i>Impatiens johnsina</i> Ratheesh , Sunil & Anil	J. Bot. Res. Inst. Texas
2	Accepted	<i>Eriocaulon kannurensense</i> Sunil, Ratheesh & Nandakumar	Taiwania
1	Accepted	<i>Impatiens theuerkaufiana</i> Ratheesh & Sivadasan	Phytotaxa
2	Accepted	<i>Combretum recurvatum</i> Sujana, Ratheesh & Anil	Nelumbo
2	Accepted	<i>Memecylon ponmudiana</i> Sivu, Ratheesh & Pradeep	Nordic Journal of Botany
1	Accepted	<i>Rotala ponkuzhiana</i> Ratheesh & Sunil	Nelumbo
1	2012	<i>Lindernia madayiparensis</i> Ratheesh & Sunil	IJPAES
<u>Re-discovery</u>			
1	2010	<i>Eugenia argentea</i> Beddome	Jour. Econ. Tax. Bot.
<u>New Record from India</u>			
2	2012	<i>Memecylon clarkeanum</i> Cogn.	Taiwania

Publications in detail (Last 5 Years):

Journal papers:

1. **Ratheesh Narayanan, M.K.**, Sujanapal, P., Sasidharan, N, Anil Kumar, N. & M. Sivadasan. 2010. *Miliusa wayanadica* (Annonaceae), a new species from Western Ghats, India. *J. Bot. Res. Inst. Texas* 4(1): 63-67.
2. **Ratheesh Narayanan, M.K.**, P. Sujanapal, N. Anil Kumar & M. Sivadasan. 2012. *Miliusa gokhalaiei*, a new species of Annonaceae from India, with notes on interrelationships, population and conservation status. *Phytotaxa* 42:26-34.
3. **Ratheesh Narayanan, M. K.**, K. M. Manudev, P. Sujanapal, N. Anil Kumar, M. Sivadasan & A. H. Alfarhan. 2010. A new species of *Oberonia* (Orchidaceae) from Kerala, India. *Nordic Journal of Botany*, 28: 1-4.
4. Anil Kumar, N., **M. K. Ratheesh Narayanan**, P. Sujanapal, R. Meera Raj, K. A. Sujana & Mithunlal. 2011. *Impatiens veerapazhasii* (Balsaminaceae), a new scapigerous balsam from Wayanad, Western Ghats, India. *J. Bot. Res. Inst. Texas* 5(1): 153 – 158.
5. **Ratheesh Narayanan, M. K.**, N. Anil Kumar, M. Sivadasan, R. Meera Raj & A. H. Alfarhan. 2011. A new scapigerous species of *Impatiens* (Balsaminaceae) from India. *Bangladesh J. Plant Taxon.* 18(2): 141-148.
6. **Ratheesh Narayanan, M. K.**, N. Anilkumar, V. Balakrishnan, M. Sivadasan, H. Ahmed Alfarhan & A. A. Alatar. 2011. Wild edible plants used by the Kattunaikka, Paniya and Kuruma tribes of Wayanad District, Kerala, India. *Journal of Medicinal Plants Research* Vol. 5(15), 4 August, pp. 3520-3529.
7. **Ratheesh Narayanan M. K.**, Mithunlal, P. Sujanapal, N. Anil Kumar, M. Sivadasan, Ahmed H. Alfarhan & A. A. Alatar. 2011. Ethnobotanically important trees and their uses by Kattunaikka tribe in Wayanad Wildlife Sanctuary, Kerala, India. *Journal of Medicinal Plants Research* Vol. 5(4), pp. 604-612.
8. **Ratheesh Narayanan, M. K.**, P. Sujanapal, C.S. Dhanya & N. Anil Kumar. 2010. Rediscovery of *Eugenia argentea* Beddome (Myrtaceae) with notes on its extended distribution *Jour. Econ. Tax. Bot.* Vol. 34 (3):501-504.
9. **Ratheesh Narayanan, M. K.** & N. Anil Kumar. 2007. Gendered knowledge and changing trends in utilization of wild edible greens in Western Ghats, India. *Indian Journal of Traditional Knowledge*, Volume 6 (1): 204-216.
10. Anil Kumar N., **Ratheesh Narayanan M.K.**, & K. Satheesh., 2008. Traditional knowledge of three ‘mycophilic’ communities on wild edible mushrooms of Wayanad district, Kerala. *Ethnobotany*, Volume 20 (1):41-47.
11. Kumar. S. Naresh., Rajagopal, V., Cherian V.K., Thomas. T. Siju., **Narayanan. M. K. Ratheesh.**, & C.H. Amarnath. 2009. Weather data based descriptive models for prediction of coconut yield in different agro-climatic zones of India. *Indian Journal of Horticulture*, Volume : 66(6):212-217.
12. Kumar. S. Naresh, Rajagopal. V., Thomas. T. Siju., Cherian. Vinu K., **Narayanan. M.K. Ratheesh.**, Ananda K.S., Nagawekar D.D., Hanumanthappa. M. & S. Vincent. 2007. Variations in nut yield of coconut and dry spell in different agro-climatic zones of India. *Indian Journal of Horticulture*. Volume: 64(3):309-313.

13. Anil Kumar, N., **M. K. Ratheesh Narayanan** & V. Mini. 2010. *Wayanad- a centre of ethnobotany in Kerala*. Proceedings of State level seminar-ethnobotany, the plant friendly practices on medicinal plants. 95-109.
14. Anil Kumar, N. & **Ratheesh Narayanan, M. K.** 2011. Diversity, use pattern and management of wild food plants of Western Ghats: a study from Wayanad District, Commissioned paper, Western Ghats.
<http://www.westernghatsindia.org/commissioned-papers>.
15. **M. K. Ratheesh Narayanan**, Sivu, A.R., N. S. Pradeep, N. Anil Kumar & A. G. Pandurangan. 2012. *Memecylon wayanadense* (Melastomataceae), a new species from India. *Edinburgh Journal of Botany*.
16. **Ratheesh Narayanan, M.K.**, K. A. Sujana, R. MeeraRaj, N. Anil Kumar. 2012. *Impatiens mohana* (Balsaminaceae), a new species from Western Ghats, India. *Edinburgh Journal of Botany*.
17. **Ratheesh Narayanan, M.K.**, C.N. Sunil, N. Anil Kumar & M.M. Jithin. 2012. *Impatiens johnsiana* (Balsaminaceae), a new scapigerous balsam from Wayanad, India. *J. Bot. Res. Inst. Texas*.
18. **Ratheesh Narayanan, M.K.**, C. N. Sunil, M.K. Nanda Kumar & N. Anil Kumar. 2012. *Lindernia madayiparensis* (Linderniaceae), a new plant species from north Kerala. *Journal of Plant Animal and Environmental Sciences*.
19. Sunil, C. N., **M. K. Ratheesh Narayanan**, M.K. Nandakumar, Jayesh P. Joseph & N. Anil Kumar. 2011. *Eriocaulon kannurensis* (Eriocaulaceae), a new species from Kerala, India. *Taiwania*(In Press).
20. **Ratheesh Narayanan, M.K.**, N. Anil Kumar & M. Sivadasan. 2011. *Impatiens theuerkaufiana* sp. nov., (Balsaminaceae) a new scapigerous species from the Western Ghats, India. *Phytotaxa* (In Press).
21. Sujana K. A., M. K. Ratheesh Narayanan, & N. Anil Kumar. 2011. A new species and a new combination in *Combretum* (Combretaceae) in India. *Nordic Journal of Botany* (In Press).
22. Sivu. A. R., **M. K. Ratheesh Narayanan**, N. S. Pradeep & T. Shaju. 2011. *Memecylon ponmudiana* (Melastomataceae), a new species from Kerala, India. *Nordic Journal of Botany* (In Press).
23. **Ratheesh Narayanan, M.K.**, C. N. Sunil, V. R. Volga, Jayesh P. Joseph & N. Anil Kumar. 2011. *Rotala ponkuzhiana* (Lythraceae), a new species from Wayanad wildlife Sanctuary, Kerala, India. *Nelumbo* (In Press).
24. Sunil, C. N., **M. K. Ratheesh Narayanan**, V. Volga, S. Mithunlal, T. Shaju & N. Anil Kumar. 2011. *Oplismenus sivadasanii*, a new species of Poaceae from Wayanad wildlife Sanctuary, Western Ghats, India. *Jour. Econ. Tax. Bot.* (In Press).
25. A. R. Sivu., **M. K. Ratheesh Narayanan**, K. A. Sujana, E.S. Santhosh Kumar, N. S. Pradeep & A.G. Pandurangan. 2012. *Memecylon clarkeanum* Cogn. (Melastomataceae), a new record for India from Kerala. *Taiwania*.
26. **Ratheesh Narayanan, M. K.**, S. Mithunlal, K. Archana, N. Anil Kumar & M. Sivadasan. 2011. The plant bioresources used by Adiya tribes in Wayanad District of Kerala, India. *Journal of Medicinal Plants Research* (In Press).

Books:

1. **Ratheesh Narayanan M.K.**, Swapna, M.P., & N. Anil Kumar. 2003. *Gender dimensions of wild food management in Wayanad District*. MSSRF, CAbC/Book/04/12.
2. **Ratheesh Narayanan M. K.**, V. Balakrishnan & T. Shajahan. 2011. “Galasu’, *Wayanattilae bakhyayogyamaya Kizhanguvargangal*. MSSRF, CAbC/Book/11.
3. **Ratheesh Narayanan M. K.**, Meera Raj & N. Anil Kumar. 2011. *Orchids of Wayanad*. MSSRF, CAbC/Book/11.
4. **Ratheesh Narayanan M. K.**, Mithunlal & N. Anil Kumar. 2010. *Trees of Wayanad Wildlife Sanctuary*. MSSRF, CAbC/Book/11.

Booklets:

1. Anil Kumar, N., **Ratheesh Narayanan, M.K** & P. J. Chackochan. 2003. *Medicinal plants for Primary health care* (Malayalam). MSSRF, CAbC/Handbook10.
2. **Ratheesh Narayanan M.K.** 2007. *Wayanattilae Bakshyayogyamaya Kooninagal*. MSSRF, CAbC/ Handbook 11.
3. **Ratheesh Narayanan M.K.** 2007. *Wayanattilae Vanya Bakshya Ilakari Sasyanagal*. MSSRF, CAbC/ Handbook 12.

Research Reports:

1. **Ratheesh Narayanan M. K.**, Rama Narayanan & K. U. K. Nampoothiri. 2007. *Study of family food habits and nutritional status of mothers and children below three years in selected Paniya and Kattunaikka tribal colonies of Wayanad, Kerala*. MSSRF, CAbC/Research Report/07.
2. Sujanapal. P., N. Anilkumar & **M.K. Ratheesh Narayanan**. 2008. *Environmental impact assesment of diversion of Wariyat coffee estate at Muttil, Wayanad, Kerala*. MSSRF, CAbC/Research Report/09.
3. **Ratheesh Narayanan M. K.** 2010. *Ecological Fragile Land (EFL) study reports of Vythiri and Banasuramala forest EFL areas, Wayanad, Kerala*. MSSRF, CAbC/Research Report/10.
4. **Ratheesh Narayanan M. K.** 2011. *Ecological Fragile Land (EFL) study report of Melmuri EFL areas, Wayanad, Kerala*. MSSRF, CAbC/Research Report/11.

Conference Proceedings (Past 5 Years):

1. **Ratheesh Narayanan** & N. Anil Kumar, 1999. The threat status of some rare Angiosperm plants, a case study. National seminar on plant systematics, biodiversity, conservation and ethnobotany, IAAT, University of Calicut, 18-19, December.
2. **Ratheesh Narayanan M. K.** & N. Anil Kumar, 2003. Gender dimensions of wild food management in Wayanad. 13th Swadeshi science congress. CAbC, M. S. Saminathan Research Foundation, Kalpetta, November 6-8, 2003.
3. **Ratheesh Narayanan, M.K.**, N. Anil Kumar & M. Sivadasan, 2004. Rare, Endemic and Threatened Orchids of Wayanad. National seminar on new frontiers in plant taxonomy and biodiversity conservation. TBGRI, Thiruvananthapuram.
4. **Ratheesh Narayanan M. K.**, & N. Anil Kumar, 2005. Ethnobotany of wild edibles and its management, a case from Wayanad, Kerala. 15th national seminar and annual

conference of the Indian Association for Angiosperm Taxonomy, Nagpur, 19-21, October.

Track Record- Project Management:

1. **Principal Investigator:** Education of Tribal and Rural Youth in Bio-resources Conservation, Inventorisation and Sustainable Utilization – DBT, Govt. of India (2006-2009).
2. **Co- Principal Investigator:** UNDP/SGP- On-farm Conservation of YAM (*Dioscorea*) Diversity in Malabar Eco- Region in India (15th Feb. 2004 to 15th Feb. 2006)
3. **Co-Principal Investigator: IIN-HSBC Programme- Conserving 10 key stone plant species for the livelihood security of the tribal and rural communities of Wayanad District, Kerala** (April 2004 to December 2006).
4. **Co- Principal Investigator:** Conserving 80 RET species by creating 8 research fellowships in plant taxonomy supported by Sir. Dorabji Tata Trust (2006-2008)
5. **Co-Principal Investigator:** Saving 80 Rare Endemic and threatened (RET) tree species of Western Ghats, India. Sir. Dorabji Tata Trust (2010, January- 2012 March)
6. **Co-Principal Investigator:** On establishing a lead garden under the Ministry of Environment and Forest's scheme on assistance for Botanical Garden/Botanical section (2010, December onwards).
7. **Supervisor**, student dissertations - Master of Science level: 10 (2005-2012)

Participation in Training programs/ Workshops & Consultations (Last five yers):

1. Workshop on biodiversity conservation of medicinal plants and revitalisation of traditional healthcare systems of Kerala. Christ college, Irinjalakuda, June 10-11, 2007.
2. Training on project monitoring. Karl Kubel Institute, Coimbatore, November 27-29, 2007.
3. 14th triennial symposium of international societies for roots and tuber crops. CTCRI, Thiruvananthapuram, November 20-26, 2007.
4. Workshop on Taxonomy vis-a-vis conservation. CAbC, M S Swaminathan Research Foundation, May 23, 2007.
5. National nutrition conclave. M S Swaminathan Research Foundation, Chennai, August 12-14, 2007.
6. Natioanl workshop on revitalising agrobiodiversity for alleviating poverty and hunger. CAbC, M S Swaminathan Research Foundation, Kalpetta, 24-26, November, 2007.
7. Annam- national agrobiodiversity seminar. CISSA, Thiruvananthapuram, December, 26-30, 2008.
8. International workshop on conservation and stewardship of agricultural biodiversity in an era of climate change. Chennai, 7-9, August, 2008.
9. First Indian Biodiveristy Congress. CISSA, Thiruvananthapuram, 27-31, December, 2010.