

## BIO-DATA



**Dr. MANJU C. NAIR**

**Assistant Professor, PG Department & Research Centre of Botany  
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### **Educational qualifications**

**M. Sc. Botany- First class (66% - 1997)**

**Ph.D. Botany (2005)**

**B. Ed. Natural Science- First Class (68%)**

**Post Doc. (as DST-Young Scientist under Fast Track Scheme &  
KSCSTE Women Scientist Scheme)**

### **Designation**

**Assistant Professor since 16<sup>th</sup> March 2011**

### **Others**

**Working knowledge of computer in Linux & MS Windows**

### **Experience**

**More than 15 years of Research experience and five years**

**Teaching experience at ZGC, Calicut; conducted classes on**

**Bryology for M.Sc. students of the Botany Department, Calicut  
University during 2002-2007.**

**Approved as Research Guide by University of Calicut**

### **Employment since leaving College**

#### **Research Experience**

- 1. Research Fellow in Kerala Forest Research Institute (KFRI) in the project "Biodiversity documentation for Kerala", from 5-4-1999 to 8-11-2000 in Wildlife Biology division and in Botany division from 9-11-1999 to 14-05-2001 in the project "Taxonomy capacity building on Bamboo (AICOPTAX).**
- 2. Research Fellow in the Department of Botany, Calicut University in the Ministry of Environment and Forests (MoEF), Govt. of India " All India Co-ordinated Project on Taxonomy Capacity Building (AICOPTAX) for Pteridophytes and Gymnosperms from 15-05-2001 to 30-04-2002.**

3. **CSIR- Senior Research Fellow in the Department of Botany, Calicut University, doing Ph.D. on the topic “Eco-systematic studies on the Bryophytes of Wayanad district, Kerala”, from 02-05-2002 to 30-04-2005.**
4. **PDF- DST-Young Scientist under Fast track scheme in the Department of Botany, Calicut University from July 9<sup>th</sup> 2006 to July 9<sup>th</sup> 2009.**
5. **Guest Lecturer (Temporary) in the Post-Graduate Department of Botany, 10,000/- p.m. (consolidated); Zamorin’s Guruvayurappan College, Kozhikode-4, Kerala since 14-07-2010 (14-07-2010 to 30-10-2010)**
6. **KSCSTE Women Scientist Fellowship in the Malabar Botanical Garden, Calicut since 1<sup>st</sup> November 2010. Project “Systematic studies on bryophytes of Northern Western Ghats in Kerala”. On getting permanent faculty at Zamorin’s Guruvayurappan College, Calicut since 16<sup>th</sup> March 2011, the designation has been changed as Principal Investigator**
7. **Co-Investigator of the KSCSTE funded Project “Exploration, taxonomic characterization and establishment of Conservation Repository of Bryophytes of Kerala” in the Malabar Botanical Garden, since February 2011.**
8. **Assistant Professor, Botany Department, The Zamorin’s Guruvayurappan College, Calicut since 16<sup>th</sup> March 2011.**
9. **Principal Investigator of the project sanctioned by DST -Fast Track scheme at Zamorin's Guruvayurappan College as Research Centre with a total outlay of Rs. 24,60,000/- for three years; one Project Fellow is working under this project.**

### **Teaching experience**

1. **Guest Lecturer in the Department of Botany, The Zamorin’s Guruvayurappan College, Calicut from July 2005 to February 2006.**
2. **Guest Lecturer in the Department of Botany, The Zamorin’s Guruvayurappan College, Calicut from 15<sup>th</sup> June 2010 to 31<sup>st</sup> October 2010.**
3. **Assistant Professor in the Department of Botany, The Zamorin’s Guruvayurappan College, Calicut since 16<sup>th</sup> March 2011 on permanent basis.**

## **Academic achievements /awards:**

### **National**

CSIR- SRF (2002)

DST-Young Scientist Fellowship (2006)

KSCSTE Women Scientist (2010)

DST Fast Track Scheme of SERB (2013)

**International:** Awarded with the *Systematic Research Fund of the Linnaean Society, UK* for the year 2007 in appreciation of the researcher's contribution to Bryology. The award includes a certificate of merit and about Rs. 1,13,000/- for enriching the Bryological literature collection of the Centre in Botany Department, Calicut University.

### ***New species published***

*Amphidium gangulii* Nair *et al.* (Nair *et al.* 2005)

*Trichostomum wayanadense* Nair *et al.* (Nair *et al.* 2005)

*Fissidens kammadensis* Manju *et al.*, (Manju *et al.* 2008)

*Chiloscyphus chinnarensis* Manju, Rajesh & Madhus. (Manju *et al.* 2011)

*Aerobryopsis eravikulamensis* Manju & Rajesh (Manju *et al.* 2012)

*Eriocaulon madayiparensae* Swapna, Rajesh, Manju et Prakashkumar (Swapna *et al.* 2012)

*Symphysodontella madhusoodananii* Manju & Rajesh (2012)

*Cololejeunea manilalia* Manju, Chandini & Rajesh. (2017)

*Fissidens manilalia* manjula, Manju & rajesh (2017)

### **Gene sequencing**

Gene Sequencing was done in two species of mosses and deposited in NCBI

Manju C.N., Martin, K.P. and Rajesh, K.P. 2008. Molecular Systematic studies on bryophytes of Western Ghats of Kerala, India.

GenBank accession numbers for nucleotide sequences:

bankit1121850 FJ008583

bankit1121852 FJ008584

### **Major Projects Completed**

#### **DST Fast Track Project**

1. Ref. No. SR/FT/L-78 dtd. 06.06.2006

Title of the project: Systematic and Molecular (RAPD) studies on mosses of Southern Western Ghats

Duration: three years (10<sup>th</sup> July 2006-9<sup>th</sup> July 2009)

**Cost; 12,54,000**

**Funding Agency; Department of Science & Technology, New Delhi.**

2. “Systematic studies on the bryophytes of Northern Western Ghats’ funded by KSCSTE – under Back to lab Programme of Women Scientist Division (This project has been awarded by KSCSTE, Thiruvananthapuram under the Women Scientist Scheme at Malabar Botanical Garden, Calicut, after getting the permanent faculty position at Zamorin’s Guruvayurappan College, Calicut on 16<sup>th</sup> March 2011, the funding agency has converted the Women scientist to PI of the project, and provided one fellow at Malabar Botanical Garden). The project has been successfully completed by 14<sup>th</sup> October 2013.

3. Co-PI of the Project “Exploration, taxonomic characterization and establishment of Conservation Repository of Bryophytes of Kerala” at Malabar Botanical Garden, Calicut. Funded by KSCSTE under Ecology & Environment Programme. Cost (15 lakhs). (Successfully completed by 31<sup>st</sup> March 2014)

4. Principal Investigator of the project entitled ‘Systematic and molecular characterisation of the family Fissidentaceae (Bryophyta) of Western Ghats’ sanctioned by DST Fast Track Project second time (The Zamorin’s Guruvayurappan College as Research Centre with a total outlay of Rs. 24,60,000 for three years; one Project Fellow is working under this project). (Date of start. 01.07.2013 ad completion: 30.06.2016)

### **Ongoing project**

1. Major Project “Systematic studies on the bryophytes of Peechi-Vazhani Wildlife Sanctuary in Thrissur District, Kerala” funded by Kerala State Council for Science Technology and Environment (KSCSTE) : Total Fund : Rs. 17, 40,000/- (Sanction No. 031/SRSLS/2014/CSTE dtd. 01.04.2016)

### **Projects Submitted**

“Diversity and distribution studies on the Bryophytes of Eravikulam National Park in the Kerala part of Western Ghats, India” submitted to the Ministry of Environment and Forests (MoEF), New Delhi.

### **Student Projects : Total -6 Completed**

- 1. “Systematic studies on the family Geocalycaceae (Marchantiophyta) of Kerala” funded by KSCSTE Student Project Scheme 2011. (Student: Manjula, K.M. IV<sup>th</sup> Sem Botany).**
- 2. “Systematic studies on the family Pottiaceae (Bryophyte: Moss) of Kerala” funded by KSCSTE Student project scheme 2011 (Student: Vidya, V. IV<sup>th</sup> Sem Botany)**
- 3. Acrocarpic Moss (Bryophyta) diversity of Thusharagiri hills, Kozhikode, Kerala funded by KSCSTE Student Project Scheme 2013. (Student: Haripriya Padmanabhan IV<sup>th</sup> Sem M.Sc. Botany).**
- 4. Pleurocarpic Moss (Bryophyta) diversity of Thusharagiri hills, Kozhikode, Kerala funded by KSCSTE Student Project Scheme 2013. (Student: Mufeed B. IV<sup>th</sup> Sem M.Sc. Botany).**
- 5. Bryophyte diversity at the hairpin areas of Thamarassery Churam, Wayanad, Kerala. KSCSTE Student Project Scheme 2015. (Student: Mithun Venugopal. IV<sup>th</sup> Sem M.Sc. Botany).**
- 6. Bryophyte diversity in the Sacred Vallikkattu Kavu, Kozhikode, Kerala KSCSTE Student Project Scheme 2015. (Student: Jyothilakshmi IV<sup>th</sup> Sem M.Sc. Botany).**

### Details of Ph.D. Students

Sl. No.	Candidate	Supervisor	Title	Date of Registration	Part/ Full time	Type of Fellowship
1	Ms. Manjula K.M.	Dr. Manju C. Nair	Systematic studies on the family Fissidentaceae (Bryophyta) of Western Ghats	DOR/8970/Research-B-Asst-3/2014/CU dtd. 19.02.14 Reg with effect from . 19.10.2013	Part time	DST fast Track Project Fellow
2	Ms. Prajitha, B.	Dr. Manju C. Nair (Co-Guide)	Eco-Systematic studies on Bryophytes of Malabar Wildlife Sanctuary, Kerala	DOR/B3/3298/Ph.D. dtd. 8.02.2013 University of Calicut	Full time	KSCSTE Project Fellow
3.	Rajilesh, V.K.	Dr. Manju C. Nair (Co-Guide)	Systematic Studies on the bryophyte flora of Mathikettan Shola National Park in Kerala, India	DOR/B3/3296/Ph.D. dtd. 8.02.2013 University of Calicut	Full time	KSCSTE Project Fellow
4.	Deepa K.M.	Dr. Manju C. Nair (Guide)	Taxonomic studies on the order Marchantiales of South India	Synopsis presented on 29 <sup>th</sup> May 2014	Full time	Qualified the Ph.D. qualifying examination conducted by Calicut University
5.	Mufeed B.	Dr. Manju C. Nair (Guide)	Systematic studies on Bryophytes of Anamudi Shola National Park in the Western Ghats of Kerala		Part time	Qualified the Ph.D. qualifying examination conducted by Calicut University
6.	Chandini V.K.	Dr. Manju C. Nair (Guide)	Taxonomic studies on the family Lejeuneaceae (Jungermanniales; Marchantiophyta) of Kerala	Order no. 12758/2015/ Admin, dtd 16.12. 2015	Full Time	Qualified the Ph.D. qualifying examination conducted by Calicut University

### **Consultancy/ Expertise Services/ invited lectures, etc. offered**

1. As Resource person in the Seminar on Golden Jubilee celebration of the Department of Botany Mar Thoma College, Thiruvalla on 16<sup>th</sup> February 2017 and delivered a talk on “Diversity and Distribution of Bryophytes of Kerala”.
2. As resource person in the National Seminar on Organized by Maharaja’s College, Ernakulam on 29.11.2016, delivered a talk on “Bryophyte diversity of Kerala”
3. Given training on the “Bryophyte diversity of Kerala and how to identify the bryophytes in the field” to the Wild life Assistant Trainers at Walayar Forest Training Institute on 26<sup>th</sup> March 2016.
4. Given a an invited lecture on ‘Diversity and distribution of Bryophytes with Special Reference to Kerala’ in the Training Programme on Conservation and Evaluation of Biodiversity organized by Kerala Forest Research Institute (KFRI), Thrissur on 19.03.2016.
5. DC assisted National seminar on Realms on the world of Cryptogams conducted by the Govt. College Pattambi and given an invited talk on the “Bryosphere of Western Ghats” n 11th February 2016.
6. UGC Sponsored National Seminar on Role of Lower Plants in the Forest Ecosystem; Diversty, Conservation and Utilization Potential at Govt. College, Chittur, Palakkad n 9<sup>th</sup> December 2015- given an invited lecture on ‘*Bryological Research in Kerala- Prospects and Challenges*’
7. Workshop on “Western Ghats Biogeography: Challenges in conservation” from 3<sup>rd</sup> to 5<sup>th</sup> December. As part of this workshop, I have given an invited lecture on “Bryosphere of Nelliampathy: Meet them in the wild” on 5<sup>th</sup> December 2015.
8. As resource person on the National Workshop on the Taxonomy of Primitive Plants organised by Malabar Botanical Garden and Institute for Plant Sciences funded by National Biodiversity Authority on 13<sup>th</sup> October 2015 and given talk on “Morphology and Taxonomy of Bryophytes”.
9. As resource person in the National Seminar on Lower Plant Groups of South India organized by September 29-30<sup>th</sup> 2015 organized by Govt. Brennen College, Thalassery and given a talk on “Current status and diversity of Bryophytes in Kerala.
10. As Resource person -in the “Student Programme for Excellence in Experimental Design (SPEED) organised by Department of Botany, University of Calicut sponsored by KSCSTE, Thiruvananthapuram on 27<sup>th</sup> April 2015”.
11. As Resource person -in the ‘Training on Plant Taxonomy’ organized by IFGTB, Coimbatore on 25<sup>th</sup> February and 6<sup>th</sup> March 2015 and given a talk on Bryophyte Taxonomy & Methodology.
12. As Resource person -delivered a talk on the Classification and bryophyte diversity of Kerala in the seminar ‘Cryptogams in South India’ at Mercy College, Palakkad on 10<sup>th</sup> December 2014.
13. As Resource person- delivered a talk on Bryophyte diversity of Kerala in the seminar ‘Biodiversity of Cryptogams in South India’ at Mar Athnadius College, Kothamangalam on 15<sup>th</sup> November 2014.

14. As Resource person- delivered a talk on the Classification and the diversity of Bryophytes at St. Mary's College, Thrissur in a Lecture series on 28<sup>th</sup> October 2014.
15. As Resource person- delivered a talk on "Bryophyte diversity of Kerala" on the workshop organized by Scott Christian College, Nagercoil on 13<sup>th</sup> January 2014.
16. Delivered a talk on "Current status and distribution of Bryophytes of the Western Ghats, India" on 15<sup>th</sup> February 2013 at Botany Department, N.S.S. College Manjeri on UGC sponsored National Seminar on Western Ghats Biogeography, Biodiversity and Conservation.
17. Delivered a talk on "Bryophytes of Kerala" at UGC sponsored National Seminar, Emphasis on Lower Plant Groups conducted by Botany Department, Brennen College, Thalassery on 26<sup>th</sup> February 2013.
18. Delivered a talk on "Bryophyte diversity of Western Ghats" on 23<sup>rd</sup> January 2013 at Botany Department, S.B. College, Changanassery, Kottayam in the International Conference
19. Offered expertise services to the EMMRC, Calicut University and acted as a presenter in UGC's 'Country Wide Classroom Slot Programme' for telecasting on Doordarsan and other higher education channels. (Topic: Flower –Part-1). 2010
20. Acted as a Resource person in the 'Intercollegiate Paper Presentation Contest' on 21 October 2005 at Mercy College, Palakkad. (also delivered a talk on 'Bryophyte diversity in South India' on the occasion)
21. Acted as a Resource person in connection with Science Exhibition and delivered a talk on 'Biodiversity of Western Ghats' on 26<sup>th</sup> October 2010 at Veda Vyasa Higher Secondary School, Calicut.
22. Delivered a talk on 'Bryophyte diversity of Western Ghats' on 15<sup>th</sup> December 2010 at Botany Department of N.S.S. College, Manjeri.
23. IUCN Western Ghats Freshwater Biodiversity Assessment Evaluation Workshop organised by ZOO Outreach Organisation Trust held at Karunya University, Coimbatore during January 26<sup>th</sup> -27<sup>th</sup>, 2011. Offered expertise in evaluating bryophytes and pteridophytes for IUCN red listing.
24. Delivered a talk on "Bryophyte diversity of Western Ghats" on 14<sup>th</sup> March 2011 at Botany Department Unity Women's College, Manjeri.

#### **Research Papers published- 82 (International: 51/ National: 31)**

1. Manjula K.M., Manju C.N. and Rajesh K.P. *Fissidens manilalia* sp. nov. (Fissidentaceae), a new corticolous species from a semi-urban habitat in India. *The Bryologist* 120(3): 263-269.
2. Manju, C.N., Aswathy, T., Pournami, K.V. and Rajesh, K.P. *Amblystegium serpens* (Hedw.) Schimp. (Amblystegiaceae: Bryophyta) from Indian Peninsula. *Asian Journal of Biological and Life Sciences* (accepted): 321-322.



3. Manju C.N., Chandini V.K. and Mufeed, B. 2017. *Physcomitrium immersum* (Funariales; Bryophyta) an addition to the bryoflora of Western Ghats. *Geophytology* 47(1): 45-47.
4. Mufeed, B. and Manju C.N. 2017. *Porella perrottetiana* (Mont.) Trevis. (Jungermanniales) a species from Western Ghats of Kerala. *Acta Botanica Hungarica*. 59(1-2): 269-272.
5. Manju, C.N., Chandini, V.K. and Rajesh, K.P. 2017. *Cololejeunea manilalia* (Lejeuneaceae: Marchantiophyta), a new species from the Western Ghats of India. *Acta Botanica Hungarica*. 59(1-2): 261-268.
6. Venugopal, M. and C.N. Manju. 2017. Bryophyte diversity of Thamarassery pass (Wayanad pass) in the Western Ghats of Kerala. *Plant Science Today* 4(1): 40-47. <http://dx.doi.org/10.14719/pst.2017.4.1.273>.
7. Manjula K.M. and Manju C.N. 2016. Genus *Fissidens* Hedw. (Fissidentaceae; Bryophyta) from Eastern Ghats of Andhra Pradesh, India. *Cryptogam Biodiversity and Assessment Vol 1(2)*: 1-19. e-ISSN-2456-0251.
8. Deepa K.M. and Manju C.N. 2016. *Clevea pusilla* (Steph.) Rubasinghe & D.G. Long (Cleveaceae; Marchantiophyta) a rare species from the Western Ghats of Tamil Nadu, India. *Cryptogam Biodiversity and Assessment Vol 1(1)*: 52-54. e-ISSN-2456-0251.
9. Bruggeman-Nannenga, M A., K M Manjula, CN Manju. 2016. *Fissidens enervis* Sim (Fissidentaceae) new to Asia. *Lindbergia* 39: 29-32.
10. Jyothilakshmi, G. R., C.N. Manju, M. Venugopal and V. K. Chandini. 2016. Bryophyte diversity in the Sacred Groves, with special reference to Vallikkattukavu of Kozhikode district in Western Ghats. *Plant Science Today* 3(2): 135-141. <http://dx.doi.org/10.14719/pst.2016.3.2.209>
11. Manju, C.N. Rajilesh V.K., Deepa K.M., and Prakashkumar, R. 2015. The Genus *Calycularia* (Marchantiophyta) in Kerala part of Western Ghats. *Acta Botanica Hungarica* 57(3-4) 401-406.
12. Manjula, K.M., Manju, C.N., Rajilesh V.K. and Chandini V.K. 2015. *Fissidens linearis* (Fissidentaceae: Bryophyta) a new record for India. *Acta Botanica Hungarica* 57(1-2)1-4.
13. Deepa, K.M., Manju, C.N., Maya C. Nair and K.P. Rajesh. 2015. *Exormotheca ceylonensis* Meijer (Marchantiophyta)- an endangered liverwort of India, now recorded from a highly threatened habitat of Kerala. *FRAHMIA*, 11: 1-4. (ISSN 2199-4897)
14. Manju, C.N., Manjula, K.M. and Rajesh, K.P. 2015. *Syrrhopodon parasiticus* (Calymperaceae: Bryophyta) a new record for India. In. *New National and regional bryophyte records* (Ellis et. al.). *Journal of Bryology* 37(1): 68-85.
15. Manju, C.N., Manjula K.M., Deepa K.M., Rajesh, K.P. and Chandini V.K. 2015. *Aulacopilum beccarii* (Erpodiaceae: Bryophyta) from the Western Ghats of Kerala. *Geophytology* 45(1): 62-65.
16. Manjula K.M., Manju, C.N. and Rajesh, K.P. 2015. *Fissidens macrosporus* Dixon (Fissidentaceae: Bryophyta) – a little known species of the Western Ghats rediscovered after more than 90 years. *Lindbergia* 38: 1-3.

17. Manju C. N., Rajilesh, V.K., Prajitha B. and R. Prakashkumar. 2014. Contribution to the Bryophyte flora of India: Silent Valley National Park in the Western Ghats, India. *Acta Biologica Plantarum Agriensis* 3: 73-98. (ISSN 2061-6716)
18. Vidya, V., Manjula K.M. and Manju C.N. 2014. A synopsis of the family Pottiaceae (Bryophyta) of Kerala, India. *Acta Biologica Plantarum Agriensis* 3: 43-72. (ISSN 2061-6716)
19. Mufeed, B. Deepa, K.M. Haripriya, P. and Manju C.N. 2014. Moss (Bryophyta) diversity of Thusharagiri hills, Kerala, India. *FRAHMIA* 6: 1-9.
20. Manju, C.N. and K.P. Rajesh. 2014. Systematic studies on the mosses of Southern Western Ghats in Kerala, India. In: *Perspectives on Biodiversity of India*. (Eds.) Kumar, B., Rajendran P.N., and Peethambaran C.K., Centre for Innovation in Science and Social Action (CISSA), Thiruvananthapuram pp. 337-346.
21. Rajesh, K.P. and Manju C.N. 2014. Bryophyte diversity of the lowlands and midlands of Kozhikode district, Kerala, India. *FRAHMIA* 5: 1-10. (ISSN 2199-4897)
22. Manjula, K.M., Vidya, V. and Manju, C.N. 2013. The genus *Bazzania* (Marchantiophyta) in Kerala. *Samagra* 9: 23-27.
23. Rajesh K.P., Mufeed, B. and Manju, C.N. 2013. *Symphiodon complanatus* (Symphyodontaceae: Moss) a new record for Kerala (India). *Samagra* 9: 28-30.
24. Manju C. N., 2013. Current Status and distribution of bryophytes of the Western Ghats, India. *Proceedings of the UGC National Seminar, Western Ghats- Biogeography, Biodiversity and Conservation*. Pp. 50-64.
25. Rajesh, K.P., Manju C.N. and Sumila S. 2013. Ferns and Lycophytes of Kakkavayal Forest (Vanaparvam) in the Western Ghats of Kozhikode district, Kerala, India. *Proceedings of the UGC National Seminar, Western Ghats- Biogeography, Biodiversity and Conservation*. Pp. 134-136.
26. Manjula, K.M., Vidya, V., Manju C.N. and R. Prakashkumar. 2013. Systematic studies on the family Geocalycaceae (Marchantiophyta) of Kerala, India. *Archive for Bryology* 176: 1-16. [ISSN 0945-3466]
27. Prajitha, B., C.N. Manju and R. Prakashkumar. 2013. *Aerobryopsis wallichii* (Moss; Bryophyta) a new record for India. *Geophytology* 42(2): 147-149.
28. Frahm, J.-P., U. Schwarz and C.N. Manju. 2013. A checklist of the mosses of Karnataka, India. *Archive for Bryology* 158: 1-15. [ISSN 0945-3466]
29. Manju, C. N. and K.P. Rajesh. 2012. *Symphysodontella madhusoodananii* sp. nov. (Pterobryaceae; Moss) from the Western Ghats of India. *Phytokeys* 18: 39-44. [ISSN 1314-2003 (on-line); ISSN 1314-2011 (print)] doi: 10.3897/phytokeys.18.3314
30. Manju C.N. and K.P. Rajesh. 2012. Present status of bryophyte diversity in Kerala. *SAMAGRA* 8: 20-27. [ISSN 0973-3906]
31. Manju C.N., Leena, T.N., Deepa K.M., K.P. Rajesh & R. Prakashkumar. 2012. *Lejeunea cocoes* (Lejeuneaceae; Marchantiophyta) in the Western Ghats of India. *Acta Botanica Hungarica* 54: 341-343.
32. Manju, C.N., Prajitha, B. Rejilesh, Anoop, K.P. and R. Prakashkumar. 2012. *Trichosteleum stigmatosum* (Sematophyllaceae) from Silent Valley National Park, a new record for India. *Taiwania* 57: 222-224.

33. Manju C. N., T. Pocs, K.P. Rajesh and R. Prakashkumar. 2012. Lejeuneaceae (Marchantiophyta) of the Western Ghats, India. *Acta Biologica Plantarum Agriensis* 2: 127-147. [ISSN 2061 6716]
34. Manju, C.N., Rajesh, K.P. and R. Prakashkumar. 2012. On the identity of *Riccia fluitans* (Ricciaceae: Marchantiophyta) in India. *Acta Biologica Plantarum Agriensis* 2: 117-121. [ISSN 2061 6716]
35. Manju, C.N., Martin, K.P., Sreekumar, V.B. and K.P. Rajesh. 2012. Morphological and molecular differentiation of *Aerobryopsis eravikulamensis* sp. nov. (Meteoriaceae: Bryophyta) and closely related taxa of the Western Ghats of India. *Bryologist* 115(1): 42-50. [ISSN (Print) 0007-2745; ISSN (Online): 1938-4378]
36. Swapna, M.M., K.P. Rajesh, C.N. Manju and R. Prakashkumar. 2012. *Eriocaulon madayiparense* (Eriocaulaceae) - A new species from the foot hills of the Western Ghats of India. *Phytokeys* 10: 19-23.
37. Manju, C.N., Rajesh, K.P & Prakashkumar, R. 2012. Life forms of Bryophytes in the Western Ghats, India. Pp. 1-10. In : Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krishnakumar, N. (eds.) *Tropical Ecosystems: Structure, Function and Services*. Institute of Forest Genetics and Tree Breeding, Coimbatore.
38. Deepa, K.M., Leena, T.N., Suhana, M., Manju, C. N. and Rajesh, K.P. 2012. Bryophyte diversity of Malabar wildlife Sanctuary, Kerala, located in the Western Ghats of India. Pp. 11-24. In: Nagarajan, B., Kunhikannan, C., Sasidharan, K. R. and Krishnakumar, N. (eds.) *Tropical Ecosystems: Structure, Function and Services*. Institute of Forest Genetics and Tree Breeding, Coimbatore.
39. Manju, C.N. 2011. Bryophyte diversity of the Western Ghats- An appraisal. *SAMAGRA* 7: 29-44. [ISSN 0973-3906]
40. Manju, C.N., P.R. Nikesh, and K.P. Rajesh. 2011. *Exormotheca tuberifera* (Marchantiophyta, Exormothecaceae) from the Western Ghats of Kerala, India. *Taiwania* 56(4): 330-332.
41. Swapna, M. M., Anoop, K.P., Rajilesh, V.K., Prakashkumar, R, Manju C. N. and Rajith, N.P. 2011. A review on the medicinal and edible aspects of aquatic and wetland plants of India. *Journal of Medicinal Plants Research* Vol. 5(xx), pp. xxx-xxx 28 December, 2011, Available online at <http://www.academicjournals.org/JMPR> ISSN 1996-0875 ©2011 Academic Journals
42. Manju C.N, K.P. Rajesh, S. Jitha, P.K. Reshma and R. Prakashkumar. 2011. Bryophyte diversity of Kakkavayal Reserve Forest in the Western Ghats, Kerala. *Archive for Bryology*. 108: 1-7 [ISSN 0945-3466].
43. Manju, C.N. and Rajesh, K.P. 2011. Contribution to the Bryophyte flora of India: the Parambikulam Tiger Reserve in the Western Ghats. *Archive for Bryology* 42: 1-10. [ISSN 0945-3466].
44. Manju, C.N. and Rajesh, K.P. 2011. *Grimmia funalis* (Schwäger.) Bruch & Schimp. (Grimmiaceae) from India. *Taiwania* 55 (2): 81-83. [ISSN: 0372-333X]
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53. Manju, C.N., Rajesh, K.P. and Madhusoodanan, P.V. 2009. *Jungermannia obliquifolia* (Schiffn.) Vana (Marchantiophyta, Hepaticae) from India. *Bangladesh J. Plant Taxon.* 16(1): 95-97.
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66. Savitha, A., Nair, M.C., Rajesh, K.P. and Ramani, M.P. 2007. *Mastigolejeunea auriculata* (Wilson & Hook.) Schiffn. (Lejeuneaceae: Marchantiopsida) a new record for Peninsular India. *J. Econ. Taxon. Bot.* 31: 423-425.
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74. Madhusoodanan, P.V. and Nair, M.C. 2004. Pleurocarpous mosses of Eravikulam National Park, Kerala-1. *J. Econ. Taxon. Bot.* 28: 338-346.
75. Nair M.C. and P.V. Madhusoodanan. 2004. Bryophyte diversity of Kerala- A bird's eye view account. 16<sup>th</sup> Kerala Science Congress, 29-31 January, CWRDM, Kozhikode.
76. Manju, C.N. 2004. Bryophytes from Kakkayam, In Biodiversity study of Kakkayam, Malabar Trogon Vol2(2) pp.2
77. Rajesh, K.P., Nair, M.C. and Madhusoodanan, P.V. 2003. *Bolbitis crispatula* (Wall. ex C.B. Clarke) Ching (Lomariopsidaceae: Pteridophyta)- a new record for Peninsular India. *J. Econ. Tax. Bot.* 27: 1040-1042.
78. Madhusoodanan, P. V. and Nair, M.C. 2003. *Ricciocarpos natans* (L.) Corda (Ricciaceae) and *Notothylas levieri* Schiffn. ex Steph. (Notothylaceae), two new bryophyte records for South India. *Indian J. Forestry* 26(3): 295-298.

79. Nair, M.C. and P.V. Madhusoodanan. 2003. Bryophyte diversity of Wayanad district, Kerala-A preliminary report. 13<sup>th</sup> Swadeshi Science Congress November 7-9, MSSRF, Kalpetta, Wayanad.
80. Nair, M.C. and Madhusoodanan, P.V. 2002. Studies on the bryophyte flora of Kerala (South India) – An Introduction. *J. Econ. Tax. Bot.* 26(3): 697-708.
81. Nair, M.C., P.V. Madhusoodanan and Rajesh, K.P. 2002 Bryophyte diversity in Kerala- an introduction *In: Augustin, J. and Puthur, J.T. (eds.). Proc. Nat. Conf. Recent Trends in Plant Sci. Res. Nov. 14-15, pp. 116-121, Department of Botany, St. Thomas College, Pala.*
82. Nair, M.C. and Madhusoodanan, P.V. 2001. Contribution to the bryophyte flora of Eravikulam National Park, Kerala. *J. Econ. Tax. Bot.* 25: 569-574.

### Research papers accepted 2/ communicated/under preparation- 9

1. Manju, C.N. and K.P. Rajesh. An overview of the family Calymperaceae in Western Ghats with special reference to Kerala and its status in India. *Taiwania* (Communicated on 07.12.2016).
2. Manju, C.N., Manjula, K.M., Vijisha, P. and Rajesh, K.P. A new species of *Cololejeunea* (Lejeuneaceae; Marchantiophyta) from India (Polish Botanical Journal; send on 27.01.17).
3. Manju C.N. Bryophytes diversity, its importance and conservation status. Chapter in book by Kerala Forest Research Institute. (communicated on 12.03.2017)
4. Prajitha, B., Manju, C.N and Prakashkumar, R. *Bryocrumia vivicolor* (Broth. & Dixon) W.R.Buck and *Phyllocladon subretusus* (Thwaites. & Mitt.) Ochyra & R.R Ireland, (Hypnaceae)- two little known mosses from Malabar Wildlife Sanctuary in the Western Ghats of India. *Geophytology* (send on 07.12.2016).
5. Deepa K.M., Manju C.N. and Manjula K.M. *Riccia ghatensis* sp. nov. (Ricciaceae; Marchantiophyta) from the Western Ghats of Maharashtra, India (Lindbergia, submitted on 31.01.2017).
6. Deepa, K.M. and Manju C.N. Genus *Riccia* (Ricciaceae; Liverworts) in Kerala. (under preparation).
7. Manjula K.M. and Manju C.N. The Genus *Fissidens* (Fissidentaceae; Bryophyta) from Western Ghats-Series. 1 (Taiwania Communicated).
8. Rajesh K.P., Chandini V.K. and Manju C.N. Bryophytes of Midland of Malappuram district, Kerala. (under preparation).
9. Aswathy, T., Pournami K.V. and Manju C. N. Bryophytes of Anakkampoyil, in Western Ghats of Kerala. Under preparation.
10. Chandini V.K. and Manju C. N. “Epiphyllous members of Lejeuneaceae in Kerala” in Indian Biodiversity Congress -2017 conducted at Pondicherry University from 9<sup>th</sup> March to 12<sup>th</sup> March. Pp. 35 (Chapter in Proceedings)
11. Manjula, K.M. and Manju C. N. Diversity of genus *Fissidens* (Fissidentaceae; Bryophyta) in Kerala in Indian Biodiversity Congress 2017 conducted at Pondicherry University from 9<sup>th</sup> March to 12<sup>th</sup> March. Pp. 52 (Chapter in Proceedings)

### **Books published- 3**

1. Nair, M.C., K.P. Rajesh and Madhusoodanan P.V. 2005. Bryophytes of Wayanad in Western Ghats. Malabar Natural History Society, Kozhikode, i-iv + 284pp.
2. Madhusoodanan, P.V., Manju C.N., and Prakashkumar R. 2013. A Handbook on Taxonomy of Primitive Plants (Bryophytes & Pteridophytes). Malabar Botanical Garden & Institute for Plant Sciences, Kozhikode & National Biodiversity Authority, Chennai.
3. Manju, C.N. & K.P. Rajesh. 2017. *Bryophytes of Kerala, Liverworts Vol.1*. Published by CRIKSC & MNHS, Kozhikode.

### **Assisted in the preparation of following project reports and books**

1. Field identification key to Native Bamboos of Kerala (Authored by Muktesh Kumar). Kerala Forest Research Institute, Peechi, Thrissur
2. Biodiversity Documentation for Kerala: Bryophytes, Pteridophytes, Lichens, Algae and Fungi (Kerala Forest Research Institute Handbooks)

### **Project Reports under the Major Projects**

1. Systematic and Molecular (RAPD) studies on mosses of Southern Western Ghats
2. Systematic studies on the bryophytes of Northern Western Ghats'
3. Exploration, taxonomic characterization and establishment of Conservation Repository of Bryophytes of Kerala

### **Papers presented in Seminars/ Symposium/ Workshop**

- Chandini V.K. and Manju C. N. "Epiphyllous members of Lejeuneaceae in Kerala" in Indian Biodiversity Congress -2017 conducted at Pondicheri University from 9<sup>th</sup> March to 12<sup>th</sup> March. Pp. 35
- Manjula, K.M. and Manju C. N. Diversity of genus *Fissidens* (Fissidentaceae; Bryophyta) in Kerala in Indian Biodiversity Congress 2017 conducted at Pondicheri University from 9<sup>th</sup> March to 12<sup>th</sup> March. Pp. 52
- Mufeed, B. and Manju C. N. 2017. Preliminary studies on the bryophytes of Anamudi shola National Park in the Western Ghats of Kerala. Abstract of the paper presented in National seminar on Importance of taxonomy at St. Mary's College, Sulthanbathery on 8<sup>th</sup> march 2017.
- Deepa K.M. and Manju C. N. 2017. Distribution of the family Aytoniaceae Cavers (Marchantiales: Marchantiophyta) of Kerala. Abstract in 3<sup>rd</sup> National Biodiversity Congress, Focal theme mainstreaming Biodiversity for Sustainable development, pp. 29. February 23-24<sup>th</sup> 2017, Organized by Kerala State Biodiversity Board.
- Mithun Venugopal and Manju C.N. 2015. Bryophyte diversity at the hairpin areas of Thamarassery Churam, Wayanad, Kerala. Paper presented in UGC Sponsored National Seminar on Role of Lower Plants in the Forest Ecosystem; Diversity,

Conservation and Utilization Potential at Govt. College, Chittur, Palakkad on 9<sup>th</sup> -10<sup>th</sup> December 2015.

- Manjula, K.M. and Manju, C.N. "Genus *Fissidens* Hedw. (Fissidentaceae; Bryophyta) from Eastern Ghats of Andhra Pradesh, India". Manjula, K.M. and Manju, C.N., in National Conference on "Cryptogam Research in India: Progress and Prospects", organized by Indian Lichenological Society and CSIR at National Botanical Research Institute, Lucknow on 28<sup>th</sup> and 29<sup>th</sup> September 2015.
- Manjula K.M. and Manju C.N. 2015. Genus *Fissidens* Hedw. (Fissidentaceae; Bryophyta) from Eastern Ghats of Andhra Pradesh, India. (Paper presented in National Seminar at NBRI, Lucknow September 29<sup>th</sup> - 30<sup>th</sup> 2015)
- Deepa K.M. and Manju C.N. 2015. *Clevea pusilla* (Steph.) Rubasinghe & D.G. Long (Cleveaceae; Marchantiophyta) a rare species from the Western Ghats of Tamil Nadu, India. (Paper presented in National Seminar at NBRI, Lucknow September 29<sup>th</sup> - 30<sup>th</sup> 2015)
- Deepa K.M., and Manju, C.N. 2014. Systematic studies on the Marchantiales (Bryophytes) of South India. In: Third Indian Biodiversity Congress at School of Public Health SRM University, Chennai, during 18-20 December, 2014 (Abstract pp.22)
- Manjula, K.M. and Manju C. N. 2013. Preliminary studies on the family Fissidentaceae (Bryophyta) of Kerala. in UGC sponsored national seminar on "Forest Biodiversity Conservation" at Providence Women's College, Kozhikode on 10<sup>th</sup> & 11<sup>th</sup> October 2013.
- Manju, C.N. and K.P. Rajesh. 2012. Systematic studies on the mosses of Southern Western Ghats in Kerala, India. In: Second Indian Biodiversity Congress at Indian Institute of Science, Bangalore during 9-11 December, 2012 (Abstract pp.35)
- Manjula, K.M., Vidya, V. and C.N. Manju. 2012. The genus *Bazzania* (Marchantiophyta) in Kerala. Abstract of the paper presented in National Biodiversity Seminar, conducted at Kanakakkunnu Kottaram, Thiruvananthapuram from 29 to 30<sup>th</sup> December 2012. pp.104.
- Manju, C.N., K.P. Rajesh and R. Prakashkumar. 2010. Life forms of Bryophytes in Kerala part of Western Ghats, India. In: National Seminar on 'Tropical Ecosystems: Structure, Function and Services' at Institute of Forest Genetic & Tree Breeding, Coimbatore during 28-29<sup>th</sup> December, 2010. (Abstract pp. 38-39.)
- Deepa, K.M., T.N. Leena, M. Suhana, C.N. Manju & K.P. Rajesh. 2010. Bryophyte diversity of the Malabar Wildlife Sanctuary in the Western Ghats of India. In: National Seminar on 'Tropical Ecosystems: Structure, Function and Services' at Institute of Forest Genetic & Tree Breeding, Coimbatore during 28-29<sup>th</sup> December, 2010. (Abstract pp. 156-157.)

#### **Seminars/ Workshop attended:**

1. Ecological field research as a part of the Western Ghats Biodiversity Programme of Centre for Ecological Sciences, Indian Institute of Science, Bangalore, 1994-95.
2. Participated in the census of Nilgiri Tahr, at Eravikulam National Park, Munnar from January 22-organized by Kerala Forest Research Institute and Kerala Forest Department.



3. **World Conference of Bryology organised by International Association of Bryologists and National Botanical Research Institute, Lucknow, January 23-30, 2002. (Paper Presentation)**
4. **National seminar on Recent Trends in Plant Science Research, at Pala St. Thomas College, Kerala, November 14-15, 2002. (Paper Presentation)**
5. **National Seminar on Bryology, M.S. College, Mothihari, Bihar, March 2-4, 2003. (Paper Presentation)**
6. **16<sup>th</sup> Kerala Science Congress, 29-31 January, 2004, CWRDM, Kozhikode. (Paper Presentation)**
7. **13<sup>th</sup> Swadeshi Science Congress November 7-9, 2004, MSSRF, Kalpetta, Wayanad. (Paper Presentation)**
8. **18<sup>th</sup> Kerala Science Congress, 29-31 January, 2006, CESS, Akkulam, Thiruvananthapuram. (Poster Presentation)**
9. **Workshop on Biosystematics and Conservation of Plant Diversity organized by Centre for Environmental Management of Degraded Ecosystems, School of Environmental Studies, University of Delhi during 22<sup>nd</sup> to 31<sup>st</sup> March 2004.**
10. **Attended in the National Seminar on Intellectual Property Rights: Past and Present, 24<sup>th</sup> February 2006. Organised by St. Joseph Devagiri College, Calicut**
11. **2<sup>nd</sup> Kerala Environmental Science Congress, December 15-16, 2006, Kozhikode (Paper Presentation)**
12. **Attended workshop on Bioinformatics, 13-15<sup>th</sup> December 2007, Biotechnology Department, Calicut University.**
13. **Attended National Seminar on Gregor Mendel Foundation, December, 2009, Calicut University, Malappuram, Kerala.**
14. **Attended ANNAM National Food & Agro Biodiversity festival, 12-14 February 2010, Calicut, Kerala.**
15. **Participated in the National Seminar on ‘Tropical Ecosystems: Structure, Function and Services’ at Institute of Forest Genetic & Tree Breeding, Coimbatore during 28-29<sup>th</sup> December, 2010. Two papers entitled “Life forms of Bryophytes in Kerala part of Western Ghats, India” and ‘Bryophyte diversity of the Malabar Wildlife Sanctuary in the Western Ghats of India’ were also presented during the occasion.**
16. **Second Indian Biodiversity Congress, 9-11 December 2012, JN Tata Auditorium, Bengaluru.**
17. **International Conference of Plant Biosystematics at St. Berchmans College from January 22<sup>nd</sup>-24<sup>th</sup> 2013.**
18. **UGC sponsored National Seminar on Western Ghats, Biogeography, Biodiversity and Conservation 14-16<sup>th</sup> February 2013.**
19. **UGC sponsored National Seminar, Emphasis on Lower Plant Groups conducted by Brennen College, Thalassery on 26<sup>th</sup> February 2013.**
20. **Attended Two day National Seminar; Comprehending Films, sponsored by UGC, conducted by Postgraduate Departments of English & Malayalam on 1<sup>st</sup> & 2<sup>nd</sup> 2013.**

21. **Attended Silver Jubilee Conference of IAAT and Council meeting of IAPT International Seminar n Advancements n Angiosperm Systematics and Conservation at University of Calicut , Kerala from 19<sup>th</sup> -1<sup>st</sup> November 2015.**
22. **“28<sup>th</sup> kerala Science congress” conducted by Karala State Council for Science Technology and Environment, held at University of Calicut on 28 -30 January 2016, organized by CWRDM and University of Calicut.**
23. **International Symposium on Phytochemistry and Prof. Dr. A. Hisham Endowment Award Ceremony-2016 organized by Kerala Academy of Sciences, Thiruvananthapuram and supported by DBT, KSCSTE and JNTBGRI on 27<sup>th</sup> February 2016 at Malabar Botanical Garden and Institute for Plant Sciences, Kerala.**

### **Highlights in Press**

**‘Back to Lab' for scientific pursuits’. *The Hindu Daily* (4<sup>th</sup> March, 2012. Link: <http://www.thehindu.com/todays-paper/tp-national/tp-kerala/article2959612.ece> )**

**New Plant Strokes old worries (HINDU – 6<sup>th</sup> June 2012)**

**New Plant species found in National Parks (HINDU - 2<sup>nd</sup> July 2012)**

### **Membership in Professional Bodies**

1. **Life Member, International Association for Bryologists (IAB)**
2. **Life Member, Palaeobotanical Society of India**
3. **Life Member, Association for Plant Taxonomy (APT)**
4. **Life Member, Indian Botanical Society (IBS)**
5. **Life Member, Malabar Natural History Society (MNHS)**
6. **Life Member & Treasurer, Centre for Research in Indigenous Knowledge, Science and Culture (CRIKSC)**
7. **Member, Indian Academy of Sciences, Bangalore**
8. **Member, American Bryological & Lichenological Society (2010-2012)**
9. **Life Member Kerala Academy of Sciences (KAS)**