



MANJU C. NAIR (Ph.D., PDF)

Current Position : Associate Professor of Botany
Date of Birth : 01/05/1975
Address : Department of Botany
University of Calicut
Calicut University P.O.
Kerala, 673635, India
Home Address : 'Harsham', Durga Nagar, Idimuzhickal, Malappuram Dt., Kerala
Contact Details : manjucali@gmail.com, manjucnair@uoc.ac.in
Mobile No. : 09447439634
Educational qualifications : M. Sc. (Botany)
B. Ed. (Natural Science)
Ph.D. (Botany)
"Eco-systematic studies on the Bryophytes of Wayanad district, Kerala"
Post Doc. (DST-Young Scientist under Fast Track Scheme & KSCSTE Women Scientist Scheme)
First permanent Appointment : Assistant Professor from 16th March 2011 to 09th March 2022 in the Zamorins Guruvayurappan College, Kozhikode-14
Specialization : Bryophyte Taxonomy, Ecology, Molecular Biology

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 9th 2006 to July 9th 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 1st November 2010. Project "Systematic studies on bryophytes of Northern Western Ghats in Kerala". On getting permanent faculty at Zamorin's Guruvayurappan College, Calicut since 16th 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. 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.
9. Assistant Professor, Botany Department, The Zamorin's Guruvayurappan College, Calicut from 16th March 2011 to 9th March 2022.
10. Associate Professor, Department of Botany, University of Calicut since 10th March 2022.

Academic achievements /Awards:

National

- CSIR- SRF (2002)
- DST-Young Scientist Fellowship (2006)
- KSCSTE Women Scientist (2010)
- DST Fast Track Scheme of SERB (2013)
- DST -Core Research Grant (2022)

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.

World recognized Bryophyte Taxonomist listed in IPNI & IAB

New species published- 16 ; 1 inedit

1. *Amphidium gangulii* Nair *et al.* (Nair *et al.* 2005)
2. *Trichostomum wayanadense* Nair *et al.* (Nair *et al.* 2005)
3. *Fissidens kammadensis* Manju, Rajesh & Madhus. (Manju *et al.* 2008)
4. *Chiloscyphus chinnarensis* Manju, Rajesh & Madhus. (Manju *et al.* 2011)
5. *Aerobryopsis eravikulamensis* Manju & Rajesh (Manju *et al.* 2012)
6. *Eriocaulon madayiparensae* Swapna, Rajesh, Manju et Prakashkumar (Swapna *et al.* 2012)
7. *Symphysodontella madhusoodananii* Manju & Rajesh (2012)
8. *Cololejeunea manilalia* Manju, Chandini & Rajesh (2017)
9. *Fissidens manilalia* Manjula, Manju & Rajesh (2017)
10. *Riccia sahyadrica* Manju *et Cargill* (2019)
11. *Micromitrium vazhanicum* Manju, Chandini & Rajesh (2019)

12. *Fissidens crispulus* var. *nelliampathiae* K.M. Manjula & Manju (2020)
13. *Bryocrumia malabarica* Manju, Prajitha, Prakashkumar & Ma W.Z. (2021)
14. *Riccia keralensis* Manju, Chandini, Sushil. K. Singh & K.P. Rajesh (2021)
15. *Fissidens lateritica* Manjula, Manju & K.P. Rajesh (2022)
16. *Fissidens ghatense* Manjula, Manju & K.P. Rajesh (2022)
17. *Cephalozia* sp. nov. Nishida, Manju & Rajesh (*inedit*)

Major Projects Completed (5) Ongoing (1) funded by DST & KSCSTE)

1. **DST Fast Track Project:** (No. SR/FT/L-78 dtd. 06.06.2006) “Systematic and Molecular (RAPD) studies on mosses of Southern Western Ghats” (10th July 2006-9th July 2009) Total amount: 12,54,000 Funding Agency; Department of Science & Technology, New Delhi.
2. **KSCSTE Back to Lab Scheme:** Principal Investigator at Malabar Botanical Garden “Systematic studies on the bryophytes of Northern Western Ghats” (15th October– 14th October 2013) Total Cost: 15,00,000/-
3. **KSCSTE (Ecology & Environment Scheme);** Co-PI of the Project “Exploration, taxonomic characterization and establishment of Conservation Repository of Bryophytes of Kerala” at Malabar Botanical Garden, Calicut. Total Cost (15 lakhs). (2011- 2014)
4. **DST Fast Track;** Principal Investigator ‘Systematic and molecular characterisation of the family Fissidentaceae (Bryophyta) of Western Ghats’, at Zamorins Guruvayurappan College, Total Cost: Rs. 24,500,918 (01.07.2013 to 30.06.2016)
5. **KSCSTE (Science Research Scheme):** Principal Investigator “Systematic studies on the bryophytes of Peechi-Vazhani Wildlife Sanctuary in Thrissur District, Kerala” Total Fund: Rs. 18,92,800/- (01.04.2016 – 31.03.2019)
6. **DST -SERB Core Research Grant;** Principal Investigator (CRG/2021/002626 Dtd. 09 December, 2021) “Morpho-molecular characterisation and phylogenetic analysis of the genus *Riccia* L. (Ricciaceae; Marchantiophyta) in the Western Ghats"- Total Cost- Rs. 41,05,992/- (Date of start 30.05.2022)

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. IVth Sem Botany).
2. “Systematic studies on the family Pottiaceae (Bryophyte: Moss) of Kerala” funded by KSCSTE Student project scheme 2011 (Student: Vidya, V. IVth Sem Botany)
3. ‘Acrocarpic Moss (Bryophyta) diversity of Thusharagiri hills, Kozhikode, Kerala funded by KSCSTE Student Project Scheme 2013. (Student: Haripriya Padmanabhan IVth Sem M.Sc. Botany).
4. Pleurocarpic Moss (Bryophyta) diversity of Thusharagiri hills, Kozhikode, Kerala funded by KSCSTE Student Project Scheme 2013. (Student: Mufeed B. IVth Sem M.Sc. Botany).
5. Bryophyte diversity at the hairpin areas of Thamarassery Churam, Wayanad, Kerala. KSCSTE Student Project Scheme 2015. (Student: Mithun Venugopal. IVth Sem M.Sc. Botany).

6. Bryophyte diversity in the Sacred Vallikkattu Kavu, Kozhikode, Kerala KSCSTE Student Project Scheme 2015. (Student: Jyothilakshmi IVth Sem M.Sc. Botany).

Ph.D. awarded: 6

1. Dr. Manjula K.M. Taxonomic studies on the family Fissidentaceae (Bryophyta) of Western Ghats (DOR/ 8970/Research-B-Asst-3/2014/CU dtd. 19.02.14) (Awarded w.e.f. 18.05.2019)
2. Dr. Deepa K.M. Taxonomic studies on the Marchantiales (Marchantiophyta) of South India U.O. no. 8096/2014/Admn. Dtd.18.08.2014, Awarded Ph.D. w.e.f. 30.12.2019
3. Dr. Prajitha, B. Eco-Systematic studies on Bryophytes of Malabar Wildlife Sanctuary, Kerala. DOR/B3/3298/Ph.D. dtd. 8.02.2013; Awarded w.e.f. 28.05.2020
4. Dr. Rajilesh, V.K. Systematic Studies on the bryophyte flora of Mathikettan Shola National Park in Kerala, India. DOR/B3/3296/Ph.D. dtd. 8.02.2013. Awarded w.e.f. 28.05.2020
5. Dr. Mufeed B. Taxonomic studies on Bryophytes of Anamudi Shola National Park in the Western Ghats of Kerala. Reg.No.6847/2015 admn dtd. 30.06.2015. Awarded w.e.f. 13.3.2021.
6. Chandini V.K. Taxonomic studies on the family Lejeuneaceae (Jungermanniales; Marchantiophyt) of Kerala. Order no. 12758/2015/Admin, dtd 16.12. 2015. Awarded w.e.f. 07.12.2021

Ph.D. Ongoing

1. Sajitha Menon S. Taxonomic studies on the Bryophytes of Palakkad district, Kerala. U.O.No. 9819/2019/Admn Dtd. 24.07.2019; Full time; CSIR/SRF w.e.f. 22.07.2019.
2. Nishida P.P. (Part time). Systematic studies on Bryophytes of Sacred groves of Northern Kerala. U.O.No. 9776/2019/Admn dtd. 24.07.2019; Qualified NET.
3. Sruthi O.M. (Co-guide) Taxonomic studies on the Bryophytes of Aralam Wildlife Sanctuary in Kannur district, Kerala. U.O.No. 7485/2020/Admn dtd. 14.08.2020. Full Time; UGC/JRF.
4. Vineesha P.M. Taxonomic Revision and Molecular Characterisation of the family Bryaceae (Bryophyta) in Kerala. U.O.No. 20324/2021/Admn dtd. 09.12.2021. Full Time; UGC/JRF

Consultancy/ Expertise Services/ invited lectures, etc. offered

1. Invited Lecture (A gentle look into the Bryophytes of Western Ghats) in the **Green Skill Development Programme (GSDP)** of the Ministry of Environment Forest and Climate Change (MoEFCC), Govt. of India organized by the KSCSTE – Malabar Botanical Garden and Institute for Plant Sciences, Kozhikode on 19.05.2022.
2. Resource person in the **Workshop on Plant identification and conservation** held for college students from 27.12.2021 to 29.12.2021 and delivered a talk on Identification of Bryophytes organized by Aranyakam Nature Foundation in association with Peechi Wildlife Division.
3. Inaugurated PG Student Induction Programme Deeksharambh 2021 of St. Alberts College, Ernakulam and given a talk on Women in Science.
4. Invited lecture on two day **National seminar** on Biodiversity, Medicinal plants, drug discovery & sustainable development on 7th and 8th September 2021 sponsored by UGC-STRIDE & conducted by Institution Innovation council, St. Andrews College, Gorakhpur, Uttar Pradesh. Delivered a talk on Bryophytes of Western Ghats on 7th September 1st Session.
5. As Resource person in the **International Conference on Innovation and Relevance in Plant Science & Biotechnology (ICPSB) (15.03.2021 & 16.03.2021)**; lecture on ‘Diversity and

Distribution of Bryophytes in Kerala and its major challenges in conservation' on 16.03.2021 organised by Sri Vidya Mandir Arts & Science College (Autonomous), Katteri, Uthangarai, Krishnagiri Dt., Tamil Nadu.

6. **Kerala Bio-Blitz Webinar 103**; Invited talk on Bryophytes of Kerala- An Introduction, on 07th November 2020, Organized by ATREE, Bangalore
7. Invited Lecture in **ENWENAR session 102** organized by Alappuzha Natural History Society and Kottayam Natural History Society on 25th October 2020 on the topic Bryophytes.
8. Invited Lecture on National Science Day celebration 2020 at MES KEVEEYAM College, Valanchery on the focal theme '**Women in Science**' on 03.03.2020.
9. Resource person in the National Seminar on Recent advancement in Plant Taxonomy conducted by Department of Botany, University of Calicut from 28.02.2019 to 02.03.2019 and delivered a talk on Bryophyte diversity of Western Ghats on 01.03.2019.
10. Participated in the 31st Kerala Science Congress, from 2-3 February 2019 at Fathima Matha College, Kollam
11. Resource person in the **two day National seminar on an expedition into the diverse world of Lower plants** organized by the Department of Botany, St. Teresa's College (Autonomous), Ernakulam on 30.01.2019 and given a talk on 'Bryophyte diversity with special reference to Marchantiales of Kerala'.
12. Participated in the first Kerala State Biodiversity congress 2019 on 26.01.2019 at Brennen college, Thalassery organized by Kerala State Biodiversity Board and participated in the 'Consultative workshop on mainstreaming biodiversity Governance' and 'Biodiversity conservation priorities and strategies.
13. As an evaluator of the State National Children's Science Congress- 2018 a programme of Department of Science and Technology, Government of India organized by Kerala state Council for Science Technology & Environment at Centre for Water Resources Development and Management (CWRDM), Kunnamangalam, Kozhikode on 13th, 14th and 16th November 2018.
14. As resource person in the **National Seminar on "Plant diversity conservation and bioprospecting in Western Ghats"** 27th September 2018. And delivered a talk on Bryophyte diversity in Kerala" held at Govt. College, Kasaragod during 26th & 27th September 2018.
15. As Resource person in Farook College on 25th September 2018 and delivered a talk on **Bryophytes of Western Ghats**. (Invited Lecture)
16. As Resource person in Biodiversity of Lower Plants in Western Ghats Series II Bryophytes and Pteridophytes and delivered a talk on **Diversity of Bryophytes in Western Ghats** at Mahatma Gandhi Govt. Arts and Science College, Mahe on 20.02.2018.
17. As Resource person in Training on **Plant Taxonomy and delivered a lecture on Bryophyte Taxonomy and Methodology** at Institute of Forest Genetics and Tree Breeding, Coimbatore on 09.02.2018.
18. Resource person in Training on Advanced course on Para-taxonomists and delivered talk on **Taxonomy, Classification and identification of Bryophytes**, Botanical Survey of India, Southern Circle, Coimbatore from 26th to 29th December 2017.
19. As Resource person in the one day seminar "Lower Forms Flora- An Under explored Treasure" organized by the Department of Botany, NSS College, Manjeri on 12.12.2017 and delivered a talk on "**A gentle look into the Bryosphere of Western Ghats**"
20. As Resource person in the Seminar on Golden Jubilee celebration of the Department of Botany Mar Thoma College, Thiruvalla on 16th February 2017 and delivered a talk on "**Diversity and Distribution of Bryophytes of Kerala**".
21. As resource person in the National Seminar Organized by Maharaja's College, Ernakulam on 29.11.2016, delivered a talk on "**Bryophyte diversity of Kerala**".
22. 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 26th March 2016.
23. Given 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.

24. 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”** on 11th February 2016.
25. UGC Sponsored National Seminar on Role of Lower Plants in the Forest Ecosystem; Diversity, Conservation and Utilization Potential at Govt. College, Chittur, Palakkad on 9th December 2015- given an invited lecture on **‘Bryological Research in Kerala- Prospects and Challenges’**
26. Workshop on “Western Ghats Biogeography: Challenges in conservation” from 3rd to 5th December. As part of this workshop, I have given an invited lecture on **“Bryosphere of Nelliampathy: Meet them in the wild”** on 5th December 2015.
27. 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 13th October 2015 and given talk on **“Morphology and Taxonomy of Bryophytes”**.
28. As resource person in the National Seminar on Lower Plant Groups of South India organized by Govt. Brennen College, Thalassery from September 29-30th 2015 and given a talk on **“Current status and diversity of Bryophytes in Kerala.**
29. 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 27th April 2015” and given a talk on Diversity of Bryophytes in Kerala.
30. As Resource person -in the ‘Training on Plant Taxonomy’ organized by IFGTB, Coimbatore on 25th February and 6th March 2015 and given a talk on **Bryophyte Taxonomy & Methodology.**
31. 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 10th December 2014.
32. As Resource person- delivered a talk on **Bryophyte diversity of Kerala** in the seminar ‘Biodiversity of Cryptogams in South India’ at Mar Athanasius College, Kothamangalam on 15th November 2014.
33. 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 28th October 2014.
34. As Resource person- delivered a talk on **“Bryophyte diversity of Kerala”** on the workshop organized by Scott Christian College, Nagercoil on 13th January 2014.
35. Delivered a talk on **“Current status and distribution of Bryophytes of the Western Ghats, India”** on 15th February 2013 at Botany Department, N.S.S. College Manjeri on UGC sponsored National Seminar on Western Ghats Biogeography, Biodiversity and Conservation.
36. 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 26th February 2013.
37. Delivered a talk on **“Bryophyte diversity of Western Ghats”** on 23rd January 2013 at Botany Department, S.B. College, Changanassery, Kottayam in the International Conference.
38. IUCN Western Ghats Freshwater Biodiversity Assessment Evaluation Workshop organised by ZOO Outreach Organisation Trust held at Karunya University, Coimbatore during January 26th -27th, 2011. Offered expertise in evaluating bryophytes and pteridophytes for IUCN red listing.
39. Delivered a talk on **“Bryophyte diversity of Western Ghats”** on 14th March 2011 at Botany Department Unity Women’s College, Manjeri.

40. 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
41. Resource person in connection with Science Exhibition and delivered a talk on '**Biodiversity of Western Ghats**' on 26th October 2010 at Veda Vyasa Higher Secondary School, Calicut.
42. Delivered a talk on '**Bryophyte diversity of Western Ghats**' on 15th December 2010 at Botany Department of N.S.S. College, Manjeri.
43. Resource person in the 'Intercollegiate Paper Presentation Contest' on 21 October 2005 at Mercy College, Palakkad. (Delivered a talk on '**Bryophyte diversity in South India**')

Webinars Attended

1. Webinar on Biodiversity & Health on 22 May 2021, organized by International Biodiversity Congress, CISSA, Thiruvananthapuram

Seminar Session Charing

1. Chaired a session in National Seminar in Plant diversity conservation and bioprospecting in Western Ghats" on 27th September 2018 held at Govt. College, Kasaragod during 26th & 27th September 2018.
2. Co-chaired a session in XLII All India botanical conference of the Indian botanical society and national symposium on "Innovations and inventions in plant science research" 2019 November 6-8.
3. Chaired the session on Life Science in the MESMAC International Conferences at MES Mampad College (Autonomous) on 14th January 2020.

Research Papers published- 105 (International: 72/ National: 33)

1. **Manju C.N.** 2022. Habitat diversity, distribution patterns and Conservation of Bryophytes in Kerala. *In: Conspectus of Realms of Biodiversity; Commemorative volume to Prof. R. Vasudevan Nair (eds). Seethalakshmi K.K., Haridasan K., Nair M.C. & Rekha Vasudevan A. pp. 334-352; Victorian Alumni Association (VIBA) & Department of Botany, Govt. Victoria College, Palakkad. ISSN No. 987-93-5593-568-7*
2. Ellis, L.T., H. Bednarek-Ochyra, V. K. Chandini, **C. N. Manju**, P. P. Nishida, S. Sajitha Menon, O. M. Sruthi, K. P. Rajesh, A. C. Cottet, M. I. Messuti, M. V. Dulin, N. A. Semenova, A. A. Panyukov, B. Yu. Teteryuk, P. Erzberger, E. Fuertes, R. Garilleti, R. Gupta, A. K. Asthana, S. R. Gradstein, L. Hedenäs, T. Kiebacher, J. Kučera, F. Lara, Yu. S. Mamontov, J. Nagy, Cs. Németh, R. P. Obabko, S. Poponessi, A. De Agostini, A. Cogoni, R. D. Porley, M. Puglisi, S. Sciandrello, A. Schmotzer, P. Šírka, H. J. Sipman, S. Ștefănuț, A. A. Vilnet, M. S. Ignatov, E. A. Ignatova & O. Yu. Pisarenko (2021): New national and regional bryophyte records, 68, *Journal of Bryology*, 43:4, 387-402 DOI: 10.1080/03736687.2021.2002115
3. Chandini V.K., Pocs, T. and **Manju C.N.** 2021. Genus *Diplasiolejeunea* (Lejeuneaceae: Porellales) new to India, with records of two species from the Western Ghats. *Acta Botanica Hungarica* 63(3-4): 285-296
4. Subin K., Jose P.A., Tom, B, Bharath Nair, **Manju C.N.** 2021. GC-MS analysis of a fragrant epiphyllous Liverwort *Leptolejeunea balansae*: from Western Ghats, India. *Research Journal of Pharmacognosy and Phytochemistry* 13(3): 115-118.
5. **Manju, C.N.**, Chandini, V.K., S.K. Singh, K.P. Rajesh. 2021. A new species of *Riccia* (Ricciaceae; Marchantiophyta) from the human habitation of Peninsular India. *The Bryologist* 124(3): 376-384.

6. **Manju, C.N.**, Prajitha, B. Prakashkumar, R. and Wen Zhang Ma. 2021. *Bryocrumia malabarica spec. nova.* (Bryophyta, Hypnaceae) a second species of the genus from the Western Ghats of India. *Acta Botanica Hungarica* 63(1-2): 165-170.
7. Ellis, L.T., C. Ah-Peng, G. Aslan, V. A. Bakalin, A. Bergamini, D. A. Callaghan, P. Campisi, F. M. Raimondo, S. S. Choi, J. Csiky, É. Csikyné Radnai, B. Cykowska-Marzencka, I. V. Czernyadjeva, Yu M. Kalinina, O. M. Afonina, G. Domina, P. Drapela, V. E. Fedosov, E. Fuertes, R. Gabriel, M. Kubová, I. Soares Albergaria, G. Gospodinov, R. Natcheva, A. Graulich, T. Hedderson, E. Hernández-Rodríguez, V. Hugonnot, C. W. Hyun, M. Kırmacı, U. Çatak, S. Kubešová, J. Kučera, C. La Farge, J. Larrain, P. Martin, B. Mufeed, **C.N. Manju**, K.P. Rajesh, Cs. Németh, J. Nagy, N. Norhazrina, N. Syazwana, S. V. O’Leary, S. J. Park, A. P. Peña-Retes, A. Rimac, A. Alegro, V. Šegota, N. Koletić, N. Vuković, S. Rosadziński, J. A. Rosselló, M. S. Sabovljević, A. D. Sabovljević, A. Schäfer-Verwimp, C. Sérgio, A. V. Shkurko, D. Shyriaieva, V. M. Virchenko, M. Smoczyk, D. Spitale, P. Srivastava, I. Omar, A. K. Asthana, M. Staniaszek-Kik, A. Cienkowska, M.-M. Ștefănuț, S. Ștefănuț, G. Tamas, C.-C. Bîrsan, G.-R. Nicoară, M. C. Ion, T. Pócs, G. Kunev, E. I. Troeva, J. van Rooy, P. Wietrzyk-Pełka, M. H. Węgrzyn, G. J. Wolski, D. Bożyk & A. Cienkowska (2021) New national and regional bryophyte records, 65, *Journal of Bryology*, 43:1, 67-91, DOI: [10.1080/03736687.2021.1878804](https://doi.org/10.1080/03736687.2021.1878804)
8. Manjula K.M. and **Manju C.N.** 2020. New distributional records of Fissidentaceae Schimp. (Bryophyta) from the Western Ghats, India. In: MESMAC International Conferences, Applying Theory Paradigms, Practices Faultlines, (Edts. P.K. Babu & Latheef S.A.), Publ. DGM MES Mampad College (Autonomous), Mampad (ISBN 978-93-5396-247-0).
9. Manjula K.M. and **Manju C.N.** 2020. An account of Section *Crispidium* of *Fissidens* Subgen. *Pachyissidens* in Western Ghats of India with description of a new variety and an extension range. *Taiwania* 65(3): 295–314, 2020 DOI: [10.6165/tai.2020.65.295](https://doi.org/10.6165/tai.2020.65.295).
10. Chandini V.K., Mufeed B., **Manju C.N.**, Rajesh K.P. 2020. The genus *Drepanolejeunea* (Spruce) Schiffn. (Lejeuneaceae; Marchantiophyta) in the Western Ghats with special reference to Kerala. *Plant Science Today*. 7(3): 483-500. [https:// doi. org/ 10. 14719/ pst. 2020.7.3.789](https://doi.org/10.14719/pst.2020.7.3.789)
11. Ellis, L.T., O.M. Afonina, J.J. Atwood, H. Bednarek-Ochyra, M. Burghardt, S. Dragičević, S. Vuksanović, B. Espinoza-Prieto, J. Opisso, M. Goga, M. Bačkor, A. Graulich, V. Hugonnot, N. E. Koroleva, V.K. Chandini, C.N. Manju, B. Mufeed, R. Natcheva, N. Norhazrina, N. Syazwana, D. F. Peralta, V. Plášek, S. Yu. Popov, R. D. Porley, A. Rimac, A. Alegro, N. Vuković, N. Koletić, V. Šegota, M.S. Sabovljević, A. Schäfer-Verwimp, C. Sérgio, S. Ștefănuț, M.A. Taha, U.Y. Abou-Salama and G. J. Wolski. 2020. New national and regional bryophyte records, 62. *Journal of Bryology*, 42 (2): 195-208. (DOI: [10.1080/03736687.2019.1706311](https://doi.org/10.1080/03736687.2019.1706311))
12. Omar, I., **Nair M.C.**, Asthana, A.K., and Asthana, G. 2020. *Orthomnion javense* (Mniaceae, Bryophyta), new to India and Nepal. *Phytotaxa* 432(2): 283-288. (ISSN-1179-3155)
13. **Manju, C.N.**, Chandini V.K. and K.P. Rajesh. 2020. An overview of the family Calymperaceae (Bryophyta) in Western Ghats with special reference to Kerala and its status in India. In: Alam, A (Edt.) *Recent Advances in Botanical Science*, Contemporary Research on Bryophytes, Bentham Science & Publishers Pte. Ltd, Singapore; Vol. 1: 52-80. (ISSN: 978-981-143376-4)
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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* Malabar Natural History Society & Centre for Research in Indigenous Knowledge Science & Culture. ISBN 978-81-903430-3-9.
4. Mufeed B., **Manju C.N.** and K.P. Rajesh 2021. Bryophytes of Anamudi shola National Park in the Western Ghats of Kerala, India. Centre for Research in Indigenous Knowledge Science & Culture & Malabar Natural History Society, pp. 455. ISBN- 978-81-903430-5-3
5. Manjula K.M., **Manju C.N.** and K.P. Rajesh 2022. Fissidentaceae (Bryophyta) of the Western Ghats, India. Centre for Research in Indigenous Knowledge Science & Culture, pp. 447

Chapter in Book (in press)

1. **Manju, C.N.**, Rajesh K.P., Manjula K.M., Mufeed B., and Chandini V.K. 2022. Bryophytes of the Western Ghats – a gentle look into the distribution pattern. *In: Biodiversity Hotspot Vol. 1* (Ed.) T. Pullaiah, Book chapter (*in press*).

Project Reports under the Major Projects

1. Systematic studies on the bryophytes of Peechi-Vazhani Wildlife Sanctuary in Thrissur District, Kerala
2. Systematic and molecular characterisation of the family Fissidentaceae (Bryophyta) of Western Ghats'
3. Systematic and Molecular (RAPD) studies on mosses of Southern Western Ghats
4. Systematic studies on the bryophytes of Northern Western Ghats'
5. Exploration, taxonomic characterization and establishment of Conservation Repository of Bryophytes of Kerala.

Potential Journal Reviewer

1. *Systematic Botany*
2. *The Bryologist*
3. *Journal of Bryology*

Webinars attended/ papers presented

1. Manju C. Nair; Invited Lecture (A gentle look into the Bryophytes of Western Ghats) in the Green Skill Development Programme (GSDP) of the Ministry of Environment Forest and Climate Change (MoEFCC), Govt. of India organized by the KSCSTE – Malabar Botanical Garden and Institute for Plant Sciences, Kozhikode on 19.05.2022.
2. **Manju C. Nair**: Invited Lecture in ENWENAR session 102 organized by Alappuzha Natural History Society and Kottayam Natural History Society on 25th October 2020 on the topic Bryophytes.
3. **Manju C. Nair**; Attended National Webinar on Interdisciplinary and Trans-Disciplinary Approaches; Approaches and Reflections from 28th to 31st October 2020 organized by School of Pedagogical Sciences, Mahatma Gandhi University in collaboration with Directorate of Minority Welfare, Govt. of Kerala.

4. **Manju C. Nair:** Attended International Symposium on Recent Approaches in Plant Taxonomy and Ethnobotany ‘Women Signatures in Plant Taxonomy and Ethnobotany’ 4th- 5th November 2020. Organized by Department of Post Graduate Studies and Research in Botany Sanatana Dharma College, Alappuzha.
5. **Manju C. Nair:** Kerala Bio-Blitz Webinar #03; Invited talk on Bryophytes of Kerala- An Introduction, on 07th November 2020, Organized by ATREE, Bangalore
6. **Manju C. Nair:** Participated in the ‘Glance of Bioinformatics’ organized by Forum for Natural Studies and Conservation on 24.11.2020.
7. **Manju C. Nair:** Participated in the Webinar on ‘Interpreting Plant Taxonomy’ organized by Pg & Research Department of Botany in association with IQAC, SN College, Kollam on 3rd August 2020.

Papers presented in Seminars/ Symposium/ Workshop

1. **Nishida P.P.** and C.N. Manju 2021. Diversity of Bryophytes in the Sacred Groves of Northern Kerala. Paper presented in International Webinar on Recent Trends in Autotrophic Cryptogam Research (RTACR-2021) October 7th & 8th 2021, jointly organized by Department of Ecology & Environmental science, Assam University, Silcha, CSIR-National Botanical Research Institute, Lucknow and Indian Lichenological Society (ILS), Lucknow.
2. **Manjula K M.** and C.N. Manju 2020. New distributional records of Fissidentaceae Schimp. (Bryophyta) from the Western Ghats, India. In: paper presented in MESMAC International Conferences at MES Mampad College (Autonomous) on 14th January 2020.
3. **Chandini V.K.** and C.N. Manju. 2019. Diversity of Lejeuneaceae (Marchantiophyta) in Sacred Groves of Kerala. In: XLII All India botanical conference of the Indian botanical society and national symposium on “**Innovations and inventions in plant science research**” 2019 November 6-8.
4. **Mufeed, B.** and Manju C.N. 2019. Epiphytic Moss diversity along the altitudinal gradient of Anamudi shola National Park in the Western Ghats of Kerala, In: XLII All India botanical conference of the Indian botanical society and national symposium on “Innovations and inventions in plant science research” 2019 November 6-8.
5. **Chandini V.K.,** C.N. Manju and Saimol Karunan. 2019. Exploration of bryophyte Diversity in Sacred grooves; with Reference to Poyilkavu Vanadurga Devi Temple, Kozhikode District, Kerala. In: International conference on Biodiversity conservation sponsored by Directorate of Environment & Climate change (DoECC) at MES Mampad College, Malappuram on 21 & 22 February 2019.
6. **Manjula K M.** and C.N. Manju 2019. Endemic species of the family Fissidentaceae Schimp. (Bryophyta) in the Western Ghats, India. In: International conference on Biodiversity conservation sponsored by Directorate of Environment & Climate change (DoECC) at MES Mampad College, Malappuram on 21 & 22 February 2019.
7. **Mufeed, B.** and C.N. Manju. Pleurocarpous mosses of Anamudi Shola National Park in the Western Ghats of Kerala, India. In: International conference on Biodiversity conservation sponsored by Directorate of Environment & Climate change (DoECC) at MES Mampad College, Malappuram on 21 & 22 February 2019.
8. **Manju C.N.** and K.P. Rajesh. 2018. Are we prepared to look at the Bryophytes of the Western Ghats in the age of Climate Change? paper presented in the seminar 'Recent Trends in Climate Change and Carbon Research' 26-28 February 2018, Aryabhata Hall, Central Composite Science Block, University of Calicut

9. Chandini V.K. and **Manju C. N.** Presented one paper in 30th Kerala Science congress held at Government Brennen College, Thalassery during 28th -30th January 2018 on the topic Bryophyte diversity of Peechi- Vazhani Wildlife sanctuary –A preliminary approach.
10. Chandini V.K. and **Manju C. N.** “Epiphyllous members of Lejeuneaceae in Kerala” in Indian Biodiversity Congress -2017 conducted at Pondichery University from 9th March to 12th March. Pp. 35.
11. Manjula, K.M. and **Manju C. N.** Diversity of genus *Fissidens* (Fissidentaceae; Bryophyta) in Kerala in Indian Biodiversity Congress 2017 conducted at Pondichery University from 9th March to 12th March. Pp. 52
12. Mufeed, B. and **Manju C. N.** 2017. Preliminary studies on the bryophytes of Anamudi shola Natinal 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 8th March 2017.
13. Deepa K.M. and **Manju C. N.** 2017. Distribution of the family Aytoniaceae Cavers (Marchantiales: Marchantiophyta) of Kerala. Abstract in 3rd National Biodiversity Congress, Focal theme mainstreaming Biodiversity for Sustainable development, pp. 29. February 23-24th 2017, Organized by Kerala State Biodiversity Board.
14. 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 n 9th -10th December 2015.
15. 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 28th and 29th September 2015.
16. 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, Lucknw September 29th 3th 2015)
17. 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)
18. 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 10th & 11th October 2013.
19. **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)
20. 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 30th December 2012. pp.104.
21. **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 28-29th December, 2010. (Abstract pp. 38-39.)
22. 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 28-29th 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. 16th Kerala Science Congress, 29-31 January, 2004, CWRDM, Kozhikode. (Paper Presentation)
7. 13th Swadeshi Science Congress November 7-9, 2004, MSSRF, Kalpetta, Wayanad. (Paper Presentation)
8. 18th 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 22nd to 31st March 2004.
10. Attended in the National Seminar on Intellectual Property Rights: Past and Present, 24th February 2006. Organised by St. Joseph Devagiri College, Calicut
11. 2nd Kerala Environmental Science Congress, December 15-16, 2006, Kozhikode (Paper Presentation)
12. Attended workshop on Bioinformatics, 13-15th 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 28-29th 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 22nd-24th 2013.
18. UGC sponsored National Seminar on Western Ghats, Biogeography, Biodiversity and Conservation 14-16th February 2013.
19. UGC sponsored National Seminar, Emphasis on Lower Plant Groups conducted by Brennen College, Thalassery on 26th February 2013.

20. Attended Two day National Seminar; Comprehending Films, sponsored by UGC, conducted by Postgraduate Departments of English & Malayalam on 1st & 2nd 2013.
21. Attended Silver Jubilee Conference of IAAT and Council meeting of IAPT International Seminar on Advancements in Angiosperm Systematics and Conservation at University of Calicut, Kerala from 19th -1st November 2015.
22. “28th 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 27th February 2016 at Malabar Botanical Garden and Institute for Plant Sciences, Kerala.
24. Attended MESMAC International Conferences at MES Mampad College (Autonomous) on 14th January 2020.
25. Attended workshop on **Botanical Nomenclature** organised by KSCSTE-Malabar Botanical Garden and Institute for Plant Sciences, Kozhikode from 6-7 February 2020, lead by Dr. Kanchi N. Gandhi, Nomenclatural Registrar, Harvard University.
26. International Webinar on Recent Trends in Autotrophic Cryptogam Research (RTACR-2021) October 7th & 8th 2021, jointly organized by Department of Ecology & Environmental science, Assam University, Silcha, CSIR-National Botanical Research Institute, Lucknow and Indian Lichenological Society (ILS), Lucknow.

Administrative/Organisational roles

1. Executive Member, Hostel Committee, the Zamorins Guruvayurappan College (2015-2019)
2. Co-ordinator, NET/SET Coaching, the Zamorins Guruvayurappan College (2015-2016)
3. Convenor, Nature Club, the Zamorin’s Guruvayurappan College (2019-2021)
4. Co-Convener, UGC Cell, the Zamorins Guruvayurappan College (2019-March 2022)
5. Co-Investigator, DST-FIST scheme, the Zamorins Guruvayurappan College (w.e.f. November 2019)
6. Nodal officer, NSP, the Zamorins Guruvayurappan College (2017-March 2022)
7. Nodal officer, Research, ZGC, the Zamorins Guruvayurappan College (2019- March 2022)
8. UGC Scholarship portal (Checker role since November 2019 - March 2022)
9. CSIR Scholarship Portal (Maker role since November 2019 - March 2022)
10. Nodal Officer UG & PG Admission, ZGC (2021)

Membership in Professional Bodies

1. Life Member, International Association for Bryologists (IAB) & Member, American Bryological & Lichenological Society
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. Life Member Kerala Academy of Sciences (KAS)
8. Member, Indian Academy of Sciences, Bangalore