

Bio-data

Name : Dr. C. Kalidass
Designation : Scientist
Discipline : Plant Taxonomy
Division : Taxonomy & Conservation Division
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Research Interests:

- Exploration and documentation of biodiversity.
- Taxonomy of angiosperms, ferns and fern allies.
- Taxonomic revision of selected flowering plant families.
- Ethno-medico-botanical studies in Odisha.
- Reproductive biology of flowering plants.
- Propagation and conservation of Rare, Endangered and Threatened (RET) plant species using conventional and non-conventional methods.

Brief account of Research & Publication:

	At RPRC	National	Overseas	Total
Research Experience	13 years	5 years	-	18 years
Research Project	22	03	-	25
Research Publication	53	60	-	113
Research booklet	-	-	-	-
Books	04	01	-	05
Book chapters	07	03	-	10
Supervised/awarded	-	-	-	-
Supervised Ph.D.	2	-	-	02
M.Sc. Thesis	13	-	-	13

Academic Credentials:

Exams Passed	Name of the University	Year of passing	Subjects	Division
B.Sc.,	St. Xavier's (Autonomous) College, Palayamkottai -2.	1999	Botany	First
M.Sc.,	St. Xavier's (Autonomous) College, Palayamkottai -2.	2001	Botany	First
B.Ed.,	V.O.C. College of Education, Thoothukudi.	2003	Bio-science	First
M.Phil.,	Manonmaniam Sundaranar University, Tirunelveli.	2007	Life-science	First

P.G.D.S.B.S.A.	Annamalai University, Annamalai Nagar.	2008	Statistics	First
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If Ph.D., the : Botany,
specialization,

Title of the thesis : “Studies on the Underexploited Legumes of Western Ghats, Tamil Nadu: Genetic Diversity, Nutritional Composition and Antinutritional Factors”.

Name of the : Manonmaniam Sundaranar University, Tirunelveli.
University :

Year of awarding : 11.07.2011.

Date of registration : 5th September 2008.

Achievement highlight

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Dr. C. Kalidass, a dedicated plant taxonomist at the Taxonomy & Conservation Division of RPRC, Bhubaneswar, has made remarkable contributions to plant biodiversity research over an 18-year career. His achievements include leading 25 research projects and publishing over 110 research papers, along with 5 books and 10 book chapters that advance the understanding of plant taxonomy, conservation and reproductive biology. He has notably supervised Ph.D. and M.Sc. scholars, discovered and documented new plant records for Odisha and India, and pioneered conservation efforts for Rare, Endangered and Threatened (RET) species through both conventional and biotechnological methods. His work on the Solanaceae family and underexploited legumes of the Western & Eastern Ghats stands out for its scientific depth and conservation relevance.

Books:

Basak U.C., **Kalidass C.**, Nayak, N.R., Mekro, P. (2023). Initiative on Re-introduction of some RET and Special Group of Plants. Published by Regional Plant Resource Centre, Bhubaneswar. Pp. 1-154.

Mekro, P., Basak, U.C., **Kalidass C.** (2022). Edible Flowers and Their Food, Medicinal and other uses. Published by Regional Plant Resource Centre, Bhubaneswar, Odisha, India.

Kalidass, C, Madhusmita Mallia, S.N. Mallick and P.K. Das. (2022). Solanaceae in Eastern Ghats of India, Published by Regional Plant Resource Centre, Bhubaneswar, Odisha, India.

Kalidass, C and P.C. Panda (2014). The genus *Solanum* L. (Solanaceae) in Eastern Ghats of India, Published by Regional Plant Resource Centre, Bhubaneswar, Odisha, India (ISBN: 978-81-927791-9-5)

Panda P.C., Mohapatra P.P., **Kalidass, C** and A.K. Biswal (2014). Biological diversity of Regional Plant Resource Centre, Bhubaneswar, (ISBN: 978-81-927791-3-3)

Franklin Benjamin, J.H., K. Sasikala, C.Murugan, K.A.A. Kabeer and **C. Kalidass** (2012). Bibliography of Indian Poaceae, Botanical Survey of India, Published by MoEF, Kolkata, (ISBN: 81-8177-047-1)

Book Chapters:

Madhusmita Mallia, **C. Kalidass** and P.C. Panda (2025). “Using SEM Techniques for Analyzing Seed Morphology to Identify *Physalis* L. (Solanaceae) in Odisha, Eastern Ghats of India” In: *Yogendra Singh (Eds.), Advances in Biological Sciences and Biotechnology (Volume – 9), Integrated Publications, Delhi-110085, (INDIA)*, ISBN: 978-93-5834-120-2

Kalidass C and Shree Maa Sai Maa (2025). “Cultivation and Nutritional Potential of Milky Mushroom (*Calocybe indica*): Techniques and Practices for Sustainable Production In: *Nithyatharani & Manikandan (Eds.), Mushroom Technology: Modern Trends and Sustainable Solutions, JPS Scientific Publications, Tamil Nadu*, ISBN:978-93-48679-49-9

Kalidass C and Madhusmita Mallia (2024). “Preservation of Indian’s Precious Endangered Medicinal Plant via Tissue Culture Advancements” In: *Gopinath Margavelu, Chaitra B. Negalur, T.M. Vijayalakshmi, Prakash Piruthivraj (Eds.), Trends in Biological Science, IOT Academy Publishers, Coimbatore, Tamilnadu, India*, 151-165. ISBN: 978-93-93622-96-9

Kalidass C and Madhusmita Mallia (2023). “Reviving Nature’s Pharmacy: Unlocking the potential of *Oroxylum indicum* (L.) Kruz. Through Seed Germination and Macropropagation in Odisha” In: *Ravi Kant & Sartaj Singh (Eds.), Socioeconomic Importance and Conservation Approaches to Medicinal Plants, R.P. Publications, Delhi-110053 (India)*, 151-165. ISBN: 978-93-91580-89-6

Kalidass, C and A K Mahapatra. (2014). Studies on reproductive behaviour of *Symplocos racemosa* Roxb. A critically endangered medicinal plant, In: S.I.Bhuyan & Sony Kumari (ed.) *Advances in Plant Research*. 31-40. ISBN: 978-93-83252-61-9

Kalidass, C and Sonali Das. (2014). *In vitro* conservation and flowering of *Stemona tuberosa* Lour. A vulnerable medicinal plant, In: S.I.Bhuyan & Sony Kumari (ed.) *Advances in Plant Research*. 41-59. ISBN: 978-93-83252-61-9

List of Publications:

- Kalidass, C.** Madhusmita Mallia and P. K. Das (2024). Conservation of *Cryptocarya amygdalina* Nees, through air-layering methods. *Bioscience Discover*, 15 (2): 10-11.
- Das, P.K., Mallia., and **Kalidass C.** (2023). *Lepidium didymium* L.: A new record (Brassicaceae) for Odisha, India. *The Journal of Indian Botanical Society*, 4-5. <https://doi:10.5958/2455-7218.2023.00025.6>
- Mallia M. **Kalidass C.** and Panda, P.C. (2022) *Physalis angulata* L. var. *pendula* (Rydb.) Waterf. (Solanaceae): A new record for Odisha, India. *Indian Journal of Forestry*, 43 (1): 43-45.
- Mallia M. and **Kalidass C.** (2022). *Physalis lagascoe*, an invasive species found in Odisha, India, *Plantasio*, 29, In: *Zoo's Print* 37 (12): 11-13.
- Das, P.K. Das and **C. Kalidass** (2021). "Genus *Pyrus*: A new record from the family Rosaceae for Odisha, Indian Journal of Forestry, 44(1): 35-37.
- Mallia, M., **C. Kalidass** and P.C. Panda (2021). "*Cestrum benghalensis* sp. nov. a new species (Solanaceae: Browallioideae: Cestreae) in India - revealed by herbarium revision, *Plant Archives*. 21, 2, (Sp. Ed.) pp. 543-547.
- Mallia, M., P.K.Das, **C. Kalidass** and P. C. Panda (2021). "*Cestrum auranticum* Lindl. (Solanaceae): A new record for Odisha, India", *International Journal of Botany Studies*, 6(5): 890-891.
- Mallia, M., **C. Kalidass** and P. C. Panda (2021). "A new combination in the genus *Lycianthes* (Solanaceae: Solanoideae: Capsiceae)", *Plant Archives*, 21, (2): pp. 846-847.
- PK Kamila, PK Das, M Mallia, **C Kalidass**, J Pati, PC Panda (2020). *Gynochthodes cochiniensis* (DC). Razafim. & B. Bremer (Morindeae: Rubioideae: Rubiaceae): an addition to the woody climbers of India, *Journal of Threatened Taxa*, 12 (4): 191-194.
- Kalidass C.** (2018). A New Combination in *Steirachne* Ekman (Poaceae: turnerostidineae). *Journal of Biological Records* 3(1): 190-192.
- Pranati Nayak, Shidharth Sankar Ram & **C. Kalidass** (2017). PIXE-based detection of elemental accumulation during direct organogenesis in *Blepharispermum subsessile* DC: An Endangered Medicinal Plant of Odisha, India, *X-Ray Spectrometry*, DOI:10.1002/xrs.2791
- Murugan P., **C. Kalidass** & P.C. Panda (2017). *Andrographis longipedunculata* (Sreem.) L. H. Cramer (Acanthaceae) - An addition to the flora of Odisha. *Plant Science Research* 39: (1&2): 82-83.
- Murugan P., **C. Kalidass** & P.C. Panda (2017). *Pityrogramma* Link. (Pteridaceae) – A new generic record for Odisha, India. *Plant Science Research* 39: (1&2): 79-81.
- Murugan P., **C. Kalidass** & P.C. Panda (2017). *Solanum villosum* Mill. (Solanaceae): A new plant record for Eastern Ghats of India. *Indian Journal of Forestry*, 40 (1): 73-75.

- Kalidass C.** (2016). *Carex panduranganii*, a new name for *Carex nilagirica* Viji, Pandur., Deepu & G.C. Tucker (Cyperaceae), *Phytaxa*, 269 (2): 127-127.
- Kalidass C., P. Murugan & P. C. Panda** (2016). *Ruellia elegans* Poir. (Acanthaceae): A new plant record for Eastern India, *Plant Science Research* 38: (1&2): 118-119.
- Kalidass C., Pranati Nayak, & Snigdhamayee Nayak** (2016). Effect of Plant growth regulators and explant types on micropropagation of an endangered medicinal plant *Blepharispermum subsessile* DC. *Plant Science Research* 38 (1&2): 36 – 44.
- Kalidass, C. & Murugan, P.** (2016). *Dolichandra* Cham. (Bignoniaceae): A New Generic Record for Odisha, India. *Journal of Biological Records* 1(3): 114-117.
- Murugan P., **C. Kalidass** & P.C. Panda (2016). *Solanum americanum* Mill. var. *odishense* var. nov. (Solanaceae), a new variety from Odisha, India. *Bangladesh Journal of Plant Taxonomy*, 23 (1): 83-85.
- Murugan P., R. Kottaimuthu, **C. Kalidass** & P.C. Panda (2016). *Lycianthes* (Dunal) Hassl. (Solanaceae): A new generic record for Odisha, India, *An international journal of environment and biodiversity*, 7(4): 127 – 128.
- Murugan, P & **C Kalidass** (2016). *Costus pictus* D.Don Ex Lindl. (Costaceae) new to Odisha, India, *Journal of New Biological Records*, 5(2) 99 – 102.
- Pranati Nayak & **C. Kalidass** (2016). A Review of the Endangered Medicinal Plant *Blepharispermum subsessile* DC: Its Chemistry, Pharmacology and Therapeutic Potential, *Journal of Non-Timber Forest Products*, 23 (4): 191 – 194.
- Pranati Nayak & **C. Kalidass** (2016). Ethnobotany, Phytochemistry, Pharmacognostic and Pharmacological aspects of *Cordia macleodii* Hook.f. & Thomson – A review, *Journal of Non-Timber Forest Products*, 23 (2): 67 – 71.
- Pranati Nayak & **C. Kalidass** (2016). *In vitro* Regeneration of *Blepharispermum subsessile* DC: An Endangered Medicinal Plant of Odisha, India using Cotyledon Explants, *Plant Tissue Culture and Biotechnology*, 26(2): 255-266.
- Kalidass C & P. Murugan** (2015). *Physalis angulata* L. (Solanaceae): A New Addition to the Flora of Odisha, India. *Indian Journal of Forestry*, 39 (2): 312-314.
- Kalidass C** (2015). *Mitracarpus hirtus* var. *sessilis* (Rubiaceae) – An addition to the Flora of Odisha state. *Indian Journal of Forestry*, 38(3): 273 – 274.
- Kalidass C & Ankit Srivastava.** (2015). *Trichodesma amplexicaule* Roth. (Boraginaceae) - A new record to the Flora of Orissa. *Indian Journal of Forestry*, 38(2): 153 – 154.
- Kalidass C.** (2015). *Cuscuta chinensis* Lam. (Convolvulaceae) - A new record for Odisha. *Journal Economic Taxonomic and Botany*, 39(1): 124 -125.
- Kalidass C.** (2015). *Eragrostis nairii* (Poaceae: Eragrostideae): a new species from Odisha, India. *Journal Economic Taxonomic and Botany*, 39(1): 126 -129.

- Murugan P., **C. Kalidass** & P.C. Panda (2015). *Commelina maculata* Edgew. (Commelinaceae): A New Species to the Odisha, India. *Journal Economic Taxonomic and Botany*, 39 (3-4): 411-412.
- Murugan, P., **C Kalidass** & P.C. Panda (2015). A new record of *Solanum diphyllum* L. (Solanaceae): From Eastern Ghats, India, *Journal Economic Taxonomic and Botany*, 39 (3-4): 527-529.
- Murugan P., **C Kalidass** & P.C. Panda (2015). *Acmella uliginosa* (Sw.) Cass. (Asteraceae): Note on extended distribution to Odisha, India, *Journal Economic Taxonomic and Botany*, 39 (3-4): 407-410.
- Kalidass C.** (2014). Distribution and population status of a critically endangered tree species *Symplocos racemosa* Roxb. in Eastern Ghats of Odisha. *International Journal of Advanced Research*, 2 (11): 27 – 32.
- Kalidass C.** (2014). Genus *Cardamine* L. (Brassicaceae) - A new record for Odisha. *Journal Economic Taxonomic and Botany*, 38 (3&4): 650 – 651.
- Kalidass C** & A.K. Mahapatra. (2014). “Evaluation of the proximate and phytochemical compositions of an underexploited legume *Mucuna pruriens* var. *utilis* (Wall ex Wight) L.H.Bailey”. *International Food Research Journal*. 21(1): 303 – 308.
- Kottaimuthu R. & **Kalidass C** (2014). Genus *Monothecium* Hochst (Acanthaceae) - A new record for Eastern Ghats. *Journal Economic Taxonomic and Botany*, 38(1): 98-99.
- Kottaimuthu R. & **Kalidass C.** (2014). *Physalis pruinosa* L. (Solanaceae): Addition to the flora of Tamil Nadu. *Indian Journal of Forestry*. 38 (1): 77-78.
- Kottaimuthu, R. & **Kalidass C.** (2014). *Thunbergia coccinea* Wall. ex D.Don (Acanthaceae): A new record for south India. *Journal Economic Taxonomic and Botany*, 38 (4): 652 – 654.
- Kottaimuthu, R. **Kalidass C.** & N. Vasudevan (2014). *Hydnocarpus pentandra* (Buch.-Ham) Oken (Flacourtiaceae): A vulnerable medicinal plant as a new record for Eastern Ghats, India. *Journal Economic Taxonomic and Botany*, 38 (3): 392 – 394.
- Kottaimuthu, R., **Kalidass, C.** & R. Ponnuchamy. (2013). *Desmidorchis pauciflora* (Wight) Decne. (Asclepiadaceae): a new record for Eastern Ghats, India. *In. J. For.*, 36(2): 259 – 260.
- Kalidass C.** and V R Mohan. 2011. “Genetic resources of under exploited legumes / tribal pulses of Western Ghats, Tamil Nadu”. *J. Econ. Taxon. Bot.* 34(3): 639 - 657. (**ISSN : 2050 – 9768**)
- Kalidass, C,** Mohan, V.R. 2011. Genetic diversity assessment of underexploited legume of *Mucuna atropurpurea* DC. In Southern Western Ghats, Tamil Nadu. *J. Non-Tim. For. Prod.* 18 (3): 195 – 200. (**ISSN : 0971 – 9415**)
- Kalidass. C.,** Glory. M., and Manickam. V. S. 2011. “Effect of Gibberellic acid on germination a seedling growth in *Leptadenia reticulata* (Retz.) Wight. & Arn. (Asclepidaceae)” *Indian Forester*, 137 (1): 83 - 87. (**ISSN : 0019 – 4816**)

- Daneil A., **Kalidass, C.** and Mohan, V R. (2010). *In vitro* multiple shoot induction through axillary bud of *Ocimum basilicum* L. an important medicinal plant. *Int. J. Biol. Techn.*, 1: 25 – 30. (ISSN : 0976 – 4313)
- Kalidass C.** and V R Mohan. (2010). Assessment of genetic variation among population of *Mucuna pruriens* (L.) DC var. *pruriens* from Southern Western Ghats, India using RAPD markers, "*Int. J. Agric. Environ. Biotech.*, 3:365 - 370. (ISSN : 0974 – 1712)
- Kalidass C.**, Selvarathinam T and V R Mohan. (2010). "A new locality of *Habenaria roxburghii* R.Br. – an endemic orchid in southern eastern ghats of Tamil Nadu", *Int. J. Biol. Techn.*, 1: 34 - 36. (ISSN : 0976 – 4313)
- Kalidass C.**, Daniel A. and Mohan, V. R. (2010). Rapid micropropagation of *Plumbago zeylanica* L. an important medicinal. *J. Am. Sci.*, 6:1027-1031. (ISSN: 1545-1003).
- Kalidass, C.** and Mohan, V. R. (2010). Genetic diversity of Velvet bean, *Mucuna pruriens* (L.) DC. from Southern Western Ghats, India, *Int. J. Biol. Techn.*, 1:31- 37. (ISSN : 0976 – 4313)
- Kalidass, C.**, Mohan, V.R. and A. Daniel. (2010). Effect of auxin and cytokinin on vincristine production by callus cultures of *Catharanthus roseus* L. (Apocynaceae), *Trop. and Subtrop. Agroeco.* 12:283–288. (ISSN : 1870 – 0462)
- Sarvalingam, A., Sivalingam, R., Rajendran, A. and **Kalidass C.** 2010. "*Cucumis dipsaceus* Enrenb. Ex Spach. (Cucurbitaceae) – A New Record for India", *Int. J. Biol. Techn.*, 1 (Special Issue): 37 - 39. (ISSN : 0976 – 4313)
- Mohan, V.R., **Kalidass, C.** and Amish Abragam, D. (2010). Ethno-medico-botany of the Palliyars of Saduragiri hills, Western Ghats, Tamil Nadu. *J. Econ. Taxon. Bot.* 34: 639 - 657. (ISSN : 2050 – 9768)
- Kalidass C.** and Mohan V.R. (2009). *In vitro* rapid clonal propagation of *Phyllanthus urinaria* L. (Euphorbiaceae) – a medicinal plant. *Researcher.* 1:56–61. (ISSN: 1553 – 9865).
- Kalidass C.**, Muthukumar K., Mohan V.R. and Manickam V.S. (2009) Ethnoveterinary medicinal uses of plants from Agasthyamalai Biosphere Reserve (KMTR), Tirunelveli district, Tamil Nadu, India. *My Forest*, 45:7-14. (ISSN: 0975 – 3575).
- Kalidass. C.** and Manickam, V. S. (2009). Rediscovery of *Teucrium plectranthoides* Gamble. (Lamiaceae), from Western Ghats. *J. Econ. Tax. Bot.*, 33:549–551. (ISSN: 2050 – 9768).
- Kalidass C.**, Manickam V.S. and Glory M. (2008). *In vitro* micropropagation of *Leptadenia reticulata* (Retz.) Wight. & Arn. (Asclepidaceae). *In. J. Multi. Res.* 4:221– 225. (ISSN: 0973 – 2225).
- Manickam V. S. and **Kalidass C.** (2008). A note on twin seedling in *Falicionium decipiens* Thw. (Sapindaceae), an important ornamental tree species. *In. J. For.*, 31:441–442. (ISSN: 0971 – 9431).

List of projects:

S. No.	Title of the Sponsored project	Duration	Funding Agency	Status as Investigator
1.	Study on distribution, phytogeography and reproductive biology of <i>Symplocos racemosa</i> Roxb. in Odisha	2013-15	State Plan Project	PI
2.	<i>Ex situ</i> conservation of selected endangered medicinal plants using Biotechnological tools (<i>Cordia macleodii</i> Hook.f. & Thoms and <i>Blepharispermum subsessile</i> DC)	2013-17	State Plan Project	PI
3.	Vegetative propagation of Lodha (<i>Symplocos racemosa</i> Roxb.)	2014-15	State Plan Project	PI
4.	Micropropagation of selected endangered medicinal plants using biotechnological tools	2014-15	State Plan Project	PI
5.	Mass multiplication and restoration of selected endangered plant species in Odisha	2015-16	State Plan Project	PI
6.	A systematic study of the genus <i>Solanum</i> L. (Solanaceae) in Eastern Ghats of India	2015-18	State Plan Project	PI
7.	Conservation and production of synthetic seeds for selected endangered species of Odisha	2016-2017	State Plan Project	PI
8.	Taxonomic and phylogenetic studies the genus <i>Solanum</i> L. in Eastern Ghats	2017-2018	State Plan Project	PI
9.	Standardization of protocol for mass propagation of banana variety <i>Bantala</i>	2017-2018	State Plan Project	PI
10	Studies on systematic, morphology, taxonomy and bioprospecting of Solanaceae in Eastern Ghats, India	2018-2019	State Plan Project	PI
11	Mass production of micro-tubers of potato through tissue culture	2018-2019	State Plan Project	PI
12	Standardization of protocol for	2019-2020	State Plan	PI

	micropropagation of potato varieties		Project	
13	Systematic studies of the family Solanaceae in Eastern Ghats in India	2019-2020	State Project	Plan PI
14	Quantitative assessment of plant biodiversity in some selected districts of Odisha	2019-2020	State Project	Plan Co-PI
15	Taxonomic revision of the genus <i>Physalis</i> , <i>Datura</i> , <i>Capsicum</i> and <i>Nicotiana</i> (Solanaceae) in Eastern Ghats of India	2020-2021	State Project	Plan PI
16	Propagation and reintroduction of endangered species of Odisha	2020-2023	State Project	Plan PI
17	Standardization of <i>in vitro</i> regeneration techniques in red banana and establishment of red banana in Odisha climate condition	2021-2024	State Project	Plan PI
18	Developing protocols for spawn production and cultivation of few selected wild edible mushroom species in Odisha	2023-ongoing	State Project	Plan PI
19	Taxonomic and ethnobotanical significance of the Leguminosae family in Odisha.	2023- ongoing	State Project	Plan PI
20	Conservation of a few endemic and endangered plants in Odisha	2023-ongoing	State Project	Plan PI
21	Developing a protocol for the control of lethal browning of tissue culture plantlets of the commercial banana variety cv. red banana, robusta	2024-ongoing	State Project	Plan PI
22	Biodiversity Assessment of Keonjhar District, Odisha	2025- ongoing	Keonjhar DFO	PI .