

ANNEXURE
PERFORMANCE APPRAISAL REPORT
SELF APPRAISAL

i) GENERAL INFORMATION

- a) Name: Dr. L. Kousalya
- b) Address (Residential): 18/1 Megarali Street,
Indira Nagar,
Vellalore,
Coimbatore- 641111
- c) Mobile No: 9597923676
- d) Designation: Assistant Professor
- e) Department: Botany
- f) Date of Birth: 25. 04. 1988
- g) Area of Specialization: Conservation Biology, Plant Tissue Culture, Phytochemistry,
Secondary Metabolite production and environmental sustainability

II) ACADEMIC QUALIFICATIONS

Exam Passed	Board/ University	Subjects	Year	Division/Grade Merit etc.
High School	Ph.D.,	Botany	2017	Highly Commended
Higher Secondary or Pre-degree	M.Phil.,	Botany	2012	70.00
Bachelor's Degree (s)	M.Sc.,	Botany	2010	83.6
Master's Degree (s)	B.Sc.,	Botany	2008	76.7
Research Degree (s)	XII		2005	74.5
Other Diploma / Certificates etc.	X		2003	70.81

III) RESEARCH EXPERIENCE & TRAINING

Research Stage	Title of work/Theses	University where the work was carried out
M. Phil or equivalent	<i>In vitro</i> studies in <i>Enicostema axillare</i> subsp. <i>E. littoralis</i>	Bharathiar University, Coimbatore
Ph.D.	Micropropagation, Phytochemical and Pharmacological Evaluation of <i>Canscora decussata</i> (Roxb.) Roem. & Schult. and <i>C. diffusa</i> (Vahl) R. Br. ex Roem. & Schult.	Bharathiar University, Coimbatore
Post-Doctoral	-NIL-	-NIL-
Publications (give a list separately)	- Enclosure-I -	
Research Guidance (give names of students guided successfully)	-NIL-	-NIL-

LIST OF PUBLICATIONS/PAPERS (ENCLOSURE-I):

1. Ameliorated antioxidant and phytochemical profiling of *Canscora decussata* – An ayurvedic medicinal plant. **Loganathan Kousalya**, Narayanan Vijayanand, Subramanian Sivasangariramy, Durairaj Kathiresan, Mahalingam Muthumani, Sakthivel Venkatesh, Parthasarathy Seethapathy, Natarajan Yasothkumar, Subbiah Sankaralingam, Manawwer Alam, Balasubramani Ravindran, R.Z. Sayyed, Joesph Anita, R. Dineshkumar. *Biocatalysis and Agricultural Biotechnology*, Volume 53, October 2023, 102881. (Scopus Elsevier) [Impact factor 3.4].
2. Chitosan (CTS) induced secondary metabolite production in *Canscora decussata* Schult. - An endangered medicinal plant. **Loganathan Kousalya**, Parthasarathy Seethapathy, Deepu Pandita, Sankaran Packiaraj, Sakthivel Venkatesh, Subbiah Sankaralingam, Malaisamy Arunkumar, Balasundaram Harinathan, Anu Pandita, Ryan Casini, Eman A. Mahmoud, Ihab Mohamed Moussa. *Kuwait Journal of Science*, Volume 52, Issue 1, January 2025, 100306. (Scopus Elsevier) [Impact factor 1.2].
3. Green Synthesis of Hydroxyapatite Nanoparticles from *Wrightia Tinctoria* and its Antibacterial

- Activity. Rangunath C, **Kousalya L**, Ramasubramanian Venkatachalam, Anitha S, *Bionanoscience*, Volume, 2022 (Scopus-Springer) **Impact factor: 3.63 (Springer)**.
4. Genetic Diversity Analysis Based on the Virulence, Physiology and Regional Variability In Different Isolates Of Powdery Mildew In Pea. Parthasarathy Seethapathy, Subbiah Sankaralingam, Deepu Pandita, Anu Pandita, **Kousalya Loganathan**, Shabir Hussain Wani, Diaa O. El-Ansary, Hanoor Sharma, Ryan Casini, Eman A. Mahmoud, Hosam O. Elansary. *Journal of Fungi*, Volume, Year 2022, Pages **Impact factor: 5.724 (Elsevier-Scopus)**.
 5. Synthetic Seed Production and Germplasm Conservation of *Enicostema axillare* (Lam.) raynal ssp. *littoralis* (Blume) raynal using Nodal and Root Explants, **Kousalya L**, Packiaraj S, Sankaralingam S and Rangunath C, *Curr. Appl. Sci. Technol.* 2022, 22(6), 1-12. [**Impact factor 0.71**]. <https://li01.tci-thaijo.org/index.php/cast/article/view/253736> (**Elsevier-Scopus**).
 6. Bioactive Potential of Invertase By Yeast *Saccharomyces Cerevisiae* from the Honey Bee Gut Shunmugiah Mahendran, Subbiah Sankaralingam, Selvaraj Tamilarasi, Pandiaraj Maheswari, Durairaj Kathiresan, Subramanian Sivasangari Ramya, Parthasarathi Sethupathy, **Loganathan Kousalya**, Balasundaram Harinathan, Selvam Palpperumal Biomass Conversion And Biorefinery, Volume, Year-2022, DOI: <https://doi.org/10.1007/s13399-022-02499-w> (**Scopus Springer**) [**Impact factor 4.050**].
 7. Evaluation Of Antioxidant and Cytotoxicity Activities Of Polyphenol Extracted From Brown Seaweed *Sargassum Tenerrimum* Biomass Shunmugiah Mahendran, Subbiah Sankaralingam, Senthurpandian Muthuramalinga Sethupathi, Durairaj Kathiresan, Mahalingam Muthumani, **Loganathan Kousalya**, Selvam Palpperumal, Balasundaram Harinathan Biomass Conversion And Biorefinery, Volume, Year-2022. <https://doi.org/10.1007/s13399-022-02301-x> (**Scopus Springer**) [**Impact factor 4.050**].
 8. Structural and Multi-Functional Properties of Novel Thorium Complex Bearing Higher Analogue of Guanidine base, A Pushpaveni, S Packiaraj, S Poornima, **L Kousalya**, S Govindarajan Materials Chemistry and Physics, Volume, Year 2022. [**Impact factor 4.094**] (**Springer**).
 9. Comparative Analytical Study of Different Extracts on *Mucuna pruriens*, Abhirami S Anil, L. Kousalya, Janani Remyaprabha & Jnana Thapaswini Ymer, Volume, Year 2022.
 10. Exploring The Phytochemicals of *Cucumis Dipsaceus* Fruit from Western Ghats Amala Sebastian., **Dr. L. Kousalya YMER**, Volume, Year 2022.

11. Phytochemical Analysis and Mineral Profile of *Couroupita guianensis* Aubl. Fruit - An Indigenous Medicinal Tree V. Aswathi Hariharan & **L. Kousalya**, YMER, Volume, Year 2022.
12. Anatomical and Phytochemical Studies on *Calophyllum inophyllum* Fruit Seed, S. Muthusneka & **L. Kousalya** YMER, Volume, Year 2022.
13. Comparative Evaluation of Preliminary Phytochemical Analysis of *Allium cepa* L.(onion) and *Allium sativum*L.(garlic) tunics, V Angel Beaula, **L Kousalya**, International Journal of Humanities & Sciences, Volume , Year 2020, Pages
14. High frequency *in vitro* plantlet regeneration and antioxidant activity of *Enicostema axillare* (Lam.) Raynal ssp. *littoralis* (Blume) Raynal: An important medicinal plant. **Loganathan Kousalya** and V. Narmatha Bai plant, *Asian Pacific Journal of Reproduction* 2014; 3(3): 241-248. **[Impact factor 2.10] (Elsevier-Scopus)**.
15. Root culture of *Enicostema axillare* (Lam.) raynal ssp. *littoralis* (Blume) raynal: An important medicinal plant, **Kousalya Loganathan** and V. Narmatha Bai, *Res. Med. Arom. Plants* 1 (1): pp.1-10, 2015.
16. Effect of growth regulators on rapid micropropagation and antioxidant activity of *Canscora decussata* (Roxb.) Roem. & Schult. – A threatened medicinal plant, **Loganathan Kousalya** and V. Narmatha Bai, *Asian Pacific Journal of Reproduction* 2016; 5(2): 161–170. **[Impact factor 2.10] (Elesiver-Scopus)**.
17. Taxonomical and anatomical identification of a new species of *Canscora* from South India: A Medicinally Important Genus, **L. Kousalya**, M. Parthipan,A. Rajendran and V. Narmatha Bai, *Electronic Journal of Biology*, 2015, 11(4): 154-160. **[Impact factor 2.98]**.
18. *Hybanthus puberulus* M.Gilbert (Violaceae) – a new record for Andhra Pradesh, M. Parthipan, A. Rajendran, **L. Kousalya** and Narmatha Bai, ZOO's PRINT, Volume XXXI, no. 4, 2016.
19. Formulation and Evaluation of Herbal hair dyes from Tannin producing plants- a substitute for chemical hair dye. International journal for research in applied science & Engineering technology. 9(3): 898-903, 2021. ISSN: 2321-9653. DOI: <http://doi.org/10.22214/ijraset.2021.33399>.
20. A comparative study of Morphological, Anatomical, Phytochemical and Anti-inflammatory activity of *Antidesma acidum* Retz. and *Antidesma ghaesembilla* Gaertn.International journal for research in

- applied science & Engineering technology. 9(3): 904-911. 2021, ISSN: 2321-9654. DOI: <http://doi.org/10.22214/ijraset.2021.33403>.
21. Survey and Studies in Floristic Diversity and Phytosociology in Maniyoor Subramanya Swamy Temple, Maniyoor, Kannur District. International Journal for Applied Science and Engineering Technology. 9 (3): 994-1003. ISSN: 2321-9653, 2021. DOI: <https://doi.org/10.22214/ijraset.2021.33412>
 22. New insight for the estimation of sulfur content from guanidinium tris(thiodipropionato)lanthanate(III) trihydrate: synthesis, thermal, and photoluminescent studies, S. Packiaraj, **L. Kousalya**, S. Poornima, A. Pushpaveni and S. Govindarajan, **Monatshefte für Chemie**. 2021, 152, 263–273. [**Impact factor 1.61**] (**Springer**).
 23. Structural and antioxidant properties of guanyldiazinium pyrazine-2-carboxylate, Packiaraj, **L. Kousalya**, A. Pushpaveni, S. Poornima, H. Puschmann and S. Govindarajan, **J Mater Sci: Mater Electron**. 2021, 32, 7704-7718. [**Impact factor 2.78**] (**Springer**).
 24. Structural and multi-functional properties of novel thorium complex bearing higher analogue of guanidine base, A. Pushpaveni, S. Packiaraj, S. Poornima, **L. Kousalya** and Govindarajan, **Mat. Chem. Phys**. 2021, 275(1), 125213 [**Impact factor 4.78**] (**Springer**).
 25. Comparative study on biogas production from Pontederia crassipes mart., and other organic wastes: a multifaceted approach to environmental sustainability. Binto Jerline M, **Kousalya Loganathan**, Dhaarani Vijaya Kumar, Packiaraj Sankaran, Musik in Bayern, 2025-1-24 (Web of Science) [Impact factor 1.528].
 26. Production of Volvariella volvacea (Bull.) Singer: Toward a Nutritive and Sustainable Food Source. **Kousalya Loganathan**. volume 13 issue 5, 2025, 1161-1166, DOI:18.15001/JOT.2025/V13I5.25.152
 27. Facile synthesis of CdO nanorods via thermal decomposition of a cadmium (II) complex precursor. A. Pushpaveni, K Abisha, S. Packiaraj, S. Poornima, **L. Kousalya**, Page No:-311-324 DOI:18.15001/JOT.2025/V13I4.25.1349
 28. Opposition to Global Acceptance of Biotech Crops. Dharani VijayaKumar, **Kousalya Loganathan**, Manikandan Selvarauvasuki and Kanivalan Iwar Plant Biotechnology and Food Security page. No. 199- 209.

B) RESEARCH PROJECTS

Title of the Project	Name of the funding Agency	Duration	Remarks
Production of Biodegradable Sanitary Pads using Hyacinth Fiber as an Absorption Agent for Pollution Free Environment	TNSCST SPS Scheme	6 months	Completed
Eco-friendly plate production from leaves deposit in Nirmala college campus for self-sustainable Development	Student Seed Money project (SPS)scheme	6 months	Completed
Bioplastic Production from <i>Eichhornia crassipes</i> – An Invasive Weed Towards Biowaste Management and Pollution Free Environment	Student Seed Money project (SPS)scheme	6 months	Completed
Biogas Production from <i>Eichhornia Crassipes</i> – A Multifaceted Solution for Environmental Sustainability	Student Seed Money project (SPS)scheme	6 months	Completed
Production of Paddy Straw Mushroom (<i>Volvariella volvacea</i>) – A New Nutritive Food for A Healthy Society	Faculty Seed Money project scheme	6 months	Completed

C) SEMINARS, CONFERENCES, SYMPOSIA WORKSHOPS ETC. ATTENDED

Name of the Seminar/ Conference/ Symposia/ Workshop	Name of the Sponsoring Agency	Place and Date
International Conference on Women Equality, Protection and Empowerment	Nirmala College for Women	Coimbatore, 25-26th August 2024
International Symposium on Emerging Technologies That Transform Life Science	Star College Scheme, DBT, Govt. of India	19th August 2019
International Video Conference on Current Scenario in Plant Science	Dept. of Botany, Nirmala College for Women	Coimbatore, 27th September 2019
In vitro propagation of <i>Canscora decussata</i> Schult.	International Conference on Medicinal Plants and Herbal Drugs for Human Welfare [ICMP-2015]	Hotel Le Royal Meridien, Chennai, 28-30th January 2015
Ethnobotany of the Utthimalai Hills in Eastern Ghats of Tamil Nadu	National Conference on Biodiversity and Conservation	Dept. of Environmental Sciences, Bharathiar

	(NSBC-2015)	University, Coimbatore, 30th March 2015
Micropropagation of <i>Canscora decussata</i> Schult. and <i>Canscora diffusa</i> (Vahl) R. Br. Ex Roem. & Schult.	6th Indian Horticulture Congress -2014	CODISSIA Trade Fair Complex, Coimbatore, 6-9th November 2014
Micropropagation and root culture of <i>Enicostema axillare</i> (Lam.) Raynal ssp. <i>littoralis</i> (Blume) Raynal	National Conference on Conservation of Eastern Ghats	Sri Venkateshwara University, Tirupathi, 4-5th December 2014
Micropropagation of <i>Enicostemma littorale</i> Blume	International Symposium on Taxonomy, Plant Diversity and Conservation	Dept. of Botany, Bharathiar University, Coimbatore, 26-28th November 2010
National Seminar on Remediation and Management of Urban Waste	-	29th and 30th February 2008
National Seminar on Water Resources, Development and Sustainable Management (NSWRDSM-2015)	Dept. of Environmental Science, Bharathiar University	Coimbatore, 23rd March 2015
National Seminar on Biodiversity and Conservation	Dept. of Environmental Science, Bharathiar University	Coimbatore, 30th March 2015
National Seminar on Phytomedicine	Dept. of Botany, Bharathiar University	Coimbatore, 4-5th October 2012
National Seminar on Emerging Trends in Biodiversity Conservation and Sustainable Utilization (NSBCS)	Dept. of Botany, Bharathiar University	Coimbatore, 29-30th January 2014
National Seminar on Current Scenario in Botanical Research	Dept. of Botany, Bharathiar University	Coimbatore, 13th December 2013
National Seminar on Matrimonial Property Rights in India	Dept. of Women's Studies, Bharathiar University	24-25th 2015
Workshop Cum Awareness Programme on Nutrition for Youth	Dept. of Zoology, PSGR Krishnammal College for Women	Coimbatore, 13th September 2006
Bonsai Workshop	Dept. of Botany, Bharathiar University	Coimbatore, 3rd March 2015
Workshop on Intellectual Property Rights – Enlightenment for Creative Thoughts and Creative Minds	Dept. of Botany, Bharathiar University	Coimbatore, 1-2nd August 2013

Workshop on Recent Trends in Plant Science	Dept. of Botany, Bharathiar University	Coimbatore, 8-10th February 2011
Workshop on Intellectual Property Rights (Natural Products)	Dept. of Botany, Bharathiar University	Coimbatore, 9th February 2009
National Workshop on Intellectual Property Rights	Dept. of Botany, Bharathiar University	Coimbatore, 3-4th March 2016
Inter Institutional In-House Workshop on Basic Technique in Plant Tissue Culture and Bioinstrumentation	Hindustan College of art and science, Coimbatore	12th October 2019
Interaction Programme on Research Methodology	UGC- Academic Staff College, Bharathiar University	11th to 3rd 2015

D) TEACHING EXPERIENCE

Courses Taught	Name of the University/ College / Institution	Duration
iv) U.G.	-	
v) P.G. (M.Sc., Botany)	Department of Botany, Nirmala college for Women, Coimbatore	5 years 10 months
vi) M.Phil	-	-
vii) Any other	-	-

TOTAL TEACHING EXPERIENCE:

a) Post-graduate: 5 years 10 months

VIII) INNOVATIONS/CONTRIBUTIONS IN TEACHING

a) Design of Curriculum	Contributed to syllabus development for postgraduate courses in Botany. Participated in curriculum revision to incorporate recent advancements in plant science.
b) Teaching Methods	Utilized a combination of traditional lectures, interactive discussions, PowerPoint presentations, and case studies. Implemented ICT-based teaching tools such as virtual labs and online quizzes to enhance student engagement.
c) Laboratory Experiments	Designed and supervised practical experiments in Plant Diversity, Herbal Science, Forestry and Wood Science, Industrial Botany, Horticulture, Microbiology, Phytochemistry, And Plant Physiology. Developed innovative lab exercises to align with theoretical concepts for better student understanding and published books in

		related to plant biology lab manuals for student benefits.
D)	Preparation of Resource Material	Authored and compiled reading materials, laboratory manuals, and reference guides for students. Contributed to the development of e-content and online study materials. Recommended textbooks and research articles for advanced learning.
e)	Evaluation Methods	Conducted continuous assessments through quizzes, assignments, viva voce, and group projects. Developed rubrics for objective evaluation of laboratory and fieldwork. Involved in setting question papers with keys and moderating answer scripts.
f)	Remedial Teaching / Student Counseling (Academic)	Provided academic support through remedial classes for slow learners. Conducted student counseling sessions to address academic difficulties and career guidance. Mentored students for their research projects and competitive exams like CSIR-NET and TNSAT.
g)	Any Other	Organized guest lectures, seminars, and workshops to enhance student learning. Coordinated field visits and industrial exposure programs to provide practical insights into the subject. Engaged in outreach activities promoting environmental awareness and conservation.

IX) EXTENSION WORK/COMMUNITY SERVICE

Community Work (National Integration, Secularism, Democracy, Socialism, Humanism, Peace, Scientific Temper, etc.)	Conducted seminars on gender equality to foster inclusivity and awareness. Encouraged scientific temper through science exhibitions, research workshops, and awareness campaigns on biodiversity conservation.
Flood or Drought Relief	Participated in fundraising and relief efforts during natural disasters. Distributed essential supplies such as food and clothing to affected communities.
Small Family Norms and Social Awareness	Conducted awareness programs on women's health, and hygiene in collaboration with healthcare professionals. Educated students about the importance of responsible family planning for sustainable development.

X) NATIONAL LITERACY MISSION

National Literacy Mission	Conducted literacy awareness programs for underprivileged communities, focusing on basic education. Organized workshops and interactive sessions to promote digital literacy and financial awareness among rural populations. Encouraged students to participate in literacy drives as part of community service initiatives.
b) Positions Held / Leadership Roles in Extension Work, NSS, NCC, or Similar Activities	Served as a Go Green committee member, leading students in environmental clean-up drives, and awareness rallies. Organized tree plantation drives, and Swachh Bharat Abhiyan programs.

Unnat Bharat Abhiyan (UBA)	Actively involved in UBA initiatives, working towards rural development and upliftment. Coordinated village adoption programs to promote sustainable agricultural practices, sanitation, and education. Conducted awareness programs on renewable energy, waste management, and women empowerment in rural areas. Facilitated student participation in community-driven projects for social impact.
Intellectual Property Rights (IPR) Member	Engaged in promoting awareness about patents, copyrights, and trademarks among students. Conducted workshops and seminars on IPR laws, patent filing, and protection of innovations.

XI. Participation in Corporate Life:

Category	Contribution Details
Co-curricular Activities	Organized and coordinated various academic and skill development programs, including science exhibitions, debates, and quiz competitions. Guided students in research projects, paper presentations, and participation in inter-college academic events. Encouraged student participation in outreach activities, environmental awareness campaigns, and scientific workshops.
Enrichment of Campus Life (Hostels, Sports, Games, Cultural Activities)	Encouraged student involvement in sports activities by facilitating participation in inter-collegiate and university-level competitions.
Students' Welfare and Discipline	Implemented discipline measures and anti-ragging awareness programs to maintain a positive learning environment. Served as an Anti-Drug Committee Member, organizing awareness campaigns, counseling sessions, and preventive measures to educate students about substance abuse and its consequences.
Membership/Participation in Bodies/Committees on Education and National Development	Member of Unnat Bharat Abhiyan (UBA) , contributing to rural development initiatives. Active participant in Intellectual Property Rights (IPR) awareness programs . Engaged in curriculum development committees to enhance academic standards and student learning outcomes. Involved in Examination, and Admission Committees.
Professional Organization of Teachers	Member of various professional bodies related to education and research. Participated in faculty development programs, orientation courses, and workshops to enhance teaching methodologies. Contributed to the development of e-learning resources and digital education platforms for students and faculty.

XII. Membership of Professional Bodies, Societies etc.

Membership of Professional Bodies,	Actively engaged in Unnat Bharat Abhiyan (UBA), Go Green committee, Intellectual Property Rights (IPR) initiatives, and Anti-Drug Committee.
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Societies, etc.

Participated in academic networking platforms to foster collaboration and research advancements.

Editorship of Journals

Served as a reviewer for national and international journals in life sciences and plant research. Contributed to peer-reviewing research articles and ensuring quality publications in reputed scientific journals. Assisted in editorial processes, manuscript evaluation, and publication ethics adherence.

Any Other Information

Actively involved in organizing national and international conferences, seminars, and workshops. Delivered guest lectures and invited talks on plant sciences, biotechnology, and environmental conservation. Contributed to community outreach programs on literacy, health, and sustainable development. Engaged in faculty development programs and research collaborations to enhance teaching and research quality.



(Signature of the Teacher)