



ST. XAVIER'S COLLEGE (AUTONOMOUS)
PALAYAMKOTTAI - 627 002
(Recognized as "College with Potential for Excellence" by UGC &
Accredited by NAAC at A++ Grade with a CGPA of 3.66 out of 4)
INTERNAL QUALITY ASSURANCE CELL (IQAC)



ASSOCIATION ACTIVITIES
DEPARTMENT OF BOTANY

The Department of Botany in association with the Dean's Office jointly organized a Lecture cum Workshop on Gas Chromatography on 02.08.2022. "**Application Based Workshop on Gas Chromatography 7820A – Agilent Technologies (Facility Created by DST-FIST 2017 Scheme)**" was conducted exclusively for faculty members of Science departments. **Mr. Prabhakaran, Application Engineer, Agilent Technologies** has acted as the resource person and gave a hands-on-training in Gas Chromatography. **Sixteen Faculty members** from different science departments have participated in this workshop.

Inauguration of Botany Association (2022-2023) was held on 23.09.2022. **Prof. Dr. S. Somasundaram, Former Special Professor & Head, Department of Medicinal Botany, Government Siddha Medical College, Palayamkottai**, was the Chief Guest and delivered a special talk on "Botanical Sources of Drugs". Over 150 students and Staff members participated.

The department association has organized a talk on 'Challenges in facing Competitive exams' on 20.10.22 as a part of Career guidance, Twenty nine final year students benefitted. Nine students registered themselves in various courses at SWAYAM MOOC portal. As a part of Career Guidance activity in the department, the association has also organized two month training on Numerical ability and logical reasoning for the final year students during the month of September and October along with the department of Mathematics.

The Students from the department of Botany participated in an **Intercollegiate Competition cum Exhibition on Millets (Palmyra Fest 2023) on 27.02.2023** and brought laurels to our college.

The Students from the department of Botany have also participated in **State Level Intercollegiate Competition (Flora Fest 2023) held at V.H.N.S.N. College, Virudunagar on 02 March 2023** and brought laurels.

The students of Botany have also participated in interdepartmental competitions like IINDECO, sports day competitions, Christmas Crib competition and won prizes. The department received third prize in Christmas Crib competition held on 23/12/2022.

The department association conducted a department level Alumni meet as a part of SXC centenary year activity on 17.12.2023. More than fifty alumni from different parts of India

attended the meeting. Some alumni from abroad and from longer distances attended the alumni meet via online mode.

The Department of Botany has organized a lecture workshop on Herbal cure and Remedies (LWHR – 2023) on 17th March 2023. **Dr. I. Melwin, Chief Doctor, DIAWIN Multispeciality Siddha Hospital**, an alumnus of our college delivered a special talk on “Role of Botanist in Siddha Medicine”. **Mr. A. Elavarasan, Manager, DIAWIN Pharmaceuticals** has delivered a lecture and a hands-on-training in Preparation of Siddha Herbal Medicines. Over 150 Under-graduate and Post-graduate students and Staff members participated in the workshop.

ECOBOT QUIZ– 2023 and PBBT QUIZ – 2023 were conducted on 24/03/2023

Valediction ceremony conducted on 25.03.2023.

TABLE.8.a. PAPERS PUBLISHED IN JOURNALS (2022-2023)

S. NO	Name of the Teacher	Name of the Department	Title of the Paper	Name of the Journal	Volume No/ Issue No/ Page No / Year	ISSN No. / e-ISSN No.	Cited in Web of Science / Scopus Indexed/UGC Approved / Not Found in UGC-CARE List	National / International	Impact Factor
1.	Dr. J. John Peter Paul	Department of Botany	Hepatoprotective activity of the ethanolic extract of <i>Halymeniaflore sii</i> (Clemente) C.Ag. against acetaminophen induced liver dysfunction in wistar albino mice	Indian Hydrobiology	21(1): 171–176, 2022	0971-6548	UGC Approved	International	
2.	Dr. J. John Peter Paul	Department of Botany	Phytochemical analysis of the ethanolic extract of <i>Codiumtomento</i>	Indian Hydrobiology	21(1): 177–182, 2022	0971-6548	UGC Approved	International	

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3.	Dr.Leon Stephan Raj T	Botany	Evaluation of Phytochemicals and Antimicrobial potential of Aerial part of <i>Christellaparasiti ca(L.) H. Lév.</i>	Journal of Xi'an Shiyou University, Natural Science Edition	vol. 18, no. 9, pp. 258- 265/2022	ISSN- 1673- 064X	Scopus Indexed	International	
4.	Dr.Leon Stephan Raj T	Botany	GC-MS analysis of bioactive compounds of ethanolic extract of <i>Abelmoshcficul neus (L.) Wight &Arn</i>	Journal of Xi'an Shiyou University, Natural Science Edition	vol. 18, no. 9, pp. 557- 568/2022	ISSN- 1673- 064X.	Scopus Indexed	International	
5.	Dr. N. Maria Francis Jeffrey Bose	Botany	Prediction of Biological Activity Spectra of Steroidal Saponins Reported from Medicinal Plants	ScienciaA cta Xaveriana	Status: Accepted for Publication	0976- 1152		Internationa l	

6	Dr. M. Joe Virgin Largia	Botany	<i>Improved in vitro regeneration, genetic fidelity analysis, antioxidant potential, and hairy root induction of Justiciagendarussa B urm. F. .</i>	Plant Biotechnology Reports	16, 621–632 2022	1863-5474	Scopus	International	2.496
7	Dr. M. Joe Virgin Largia	Botany	Jasmonates in Plant Growth and Development and Elicitation of Secondary Metabolites -An Updated Overview	Frontiers in Plant Science	13:942789, 2022.	1664-462X	Scopus and Web Of Science	International	6.627

TABLE.8.b. – PAPERS PUBLISHED IN CONFERENCE / SEMINAR PROCEEDINGS (2022-2023)

S. No	Name of Teacher	Department	Title of the Paper	Title of the Proceedings	National / International	(Place, Publisher, Year, Page No.)	ISSN / ISBN No.
1	Dr.Leon Stephan Raj T	Botany	Preliminary Phytochemical analysis of different parts	Annual International Conference on Multidisciplin	International	December 16th to 18th, 2022,	ISBN: 978-93-95196-36-9

			of <i>Abelmoschus</i> <i>culneus</i> (L.)Wight &Arn.	ary Research and Innovation (AICMRI- 2022)		Pg.No 99	
2	Dr.Leon Stephan Raj T	Botany	Isolation and Characterizati on Of Endophytic Bacteria , <i>Bacillus</i> <i>paralicheniofo</i> <i>rmis</i> PMRU2.5 from marine brown macro algae against Human and Fish Pathogen	International Conference on Recent trends in Biological and health Sciences (ICRTBHS 22)	International	22-Aug-2022 PG.No:57	
3	Dr.Leon Stephan Raj T	Botany	Screening for Biosynthetic gene cluster and In-vitro expression in <i>Bacillus</i> <i>paralichenifor</i> <i>mis</i> strain PMRU2.6	4 th International Conference on Recent Trends in Microbiology (RTM-2023)	International	05 th & 06 th - Jan- 2023. RTM2023_01 0	ISBN: 978- 93-95422-73- 4

			from Gulf of Mannar-India.				
4	Dr.Leon Stephan Raj T	Botany	Antibioflim activity of secondary metabolite of <i>Providenciare tteri</i> PMRU2.3 Isolated from <i>Talorchestiasp</i> , Manapaadu.	Converging Microbiological Innovation for Application in Animal, Plant, Environment and Health Care (ICCMIA 2023)	International	27 th & 28 th – Jan-2023; ICCMIA OPESM-012, Pg.No: 64	ISSN:2249-8400

TABLE 9 - BOOKS / BOOK CHAPTERS PUBLISHED (2022-2023)

S. No	Name of Teacher	Department	Title of the Books / Proceedings	Place, Publisher, Year, Page No.	National / International	ISSN / ISBN No.
1	Dr. M. Joe Virgin Largia	Botany	Phytochemical Genomics - Hairy root cultures : A novel way to mass produce Plant Secondary metabolites	Springer (eBook) chapter 17 pp 417 -446.–	International	ISBN 978-981-19-5778-9 ISBN 978-981-19-5779-6