

## Faculty Profile

### 1. Personal Information:

Name: **Dr. K Jayakumar**

Designation: Assistant Professor

Department: Botany

E-mail: jayakumark@svrnsscollege.com

Service (in years): 9

### 2. Educational Qualifications:

Sl. No.	Name of the Program/ Test	Institution & University/ Agency	Year
1	M.Sc. Botany	University of Kerala	2008
2	UGC-NET	CSIR	2010
3	Ph.D.	University of Kerala	2017
4	B.Ed.	University of Kerala	2009
5	SET	State Government	2010

### 3. Career Profile:

Sl. No.	Name of the Institution	Designation	Period of Service
1	SreeVidyadhi Raja NSS College, Vazhoor	Assistant Professor	12/12/2012 -31/03-2042

### 4. Area of Specialization/Research Interests:

- Phytochemistry
- Bioinformatics
- Microbiology

### 5. Research Publications:

Sl.No.	Details of article
1.	Jayakumar K and K. Murugan. Pharmacological, Micromorphological Studies on <i>Solanum mauritianum</i> Scop. (Solanaceae): A Search (Int. J. Pharm. Sci. Rev. Res., 35(2), November – December 2015; Article No. 25, Pages: 134-139, ISSN 0976 – 044X)
2.	Jayakumar K and K. Murugan. Evaluation of Solasodine from the leaves of <i>Solanum mauritianum</i> Scop. by HPTLC (international Journal of Pharmacy, (First half) 2016, 6(1), 110-115, ISSN 2249-1848.
3.	Jayakumar K and K. Murugan. Evaluation of major phytochemicals in the leaves and fruits of <i>Solanum mauritinaum</i> Scop. a potential herbal drug (International Journal of Research in Ayurveda and Pharmacy, March-April 2016, 7(2), 58-60.

4.	Jayakumar K, Meenu Krishnan V G and Murugan K, Evaluation of antioxidant and antihemolytic activities of purified caulophyllumine-A from <i>S.mauritianum</i> Scop. (Journal of pharmacognosy and phytochemistry, February 2016, 5(2), 195-199, E-ISSN: 2278-4136, P-ISSN: 2349-8234.
5.	Jayakumar K, Sumayya S S and Murukan K, Evaluation of mitigating effect of purified solasodine from <i>s.mauritianum</i> against hydrogen peroxide induced oxidativdamage in human erythrocytes. International. Journal Of applied biology and pharmaceutical technology, April-June 2016, 7(2), 1-8, ISSN-0976-4550
6.	Jayakumar K, Greeshma G M and Murugan K, Fungicidal potential of purified alkaloids-solasodine and caulophyllumine-A from <i>S.mauritianum</i> Scop against some phytopathogenic fungi (International Journal OfPharma and Bioscience, July 2016, 7(3), 84-88, ISSN 0975-6299.
7.	Jayakumar K, Greeshma Murukan and Murugan K, Bactericidal potential of purified alkaloids-solsodine and caulophyllumine-A from <i>S.mauritianum</i> Scop. (Journal of phytochemistry, Photon (The Journal of Phytochemistry), August 2016, 117, 386-393, ISJN: 4172-8352: ImpactIndex: 4.90.
8.	Jayakumar K and Murugan K, Solanum Alkaloids And Their Pharmaceutical Roles: A Review. Journal of Analytical and Pharmaceutical Research. December 2016, 3(6), 1-14.
9.	Jayakumar K and Murugan K, Purified solasodine and caulophyllumine A: from <i>Solanum mauritianum</i> Scop. agaist MCF-7 breast cancer cell lines in terms of cell growth, cell cycle and apoptosis. Journal of Pharmacognosy and Phytochemistry. (first half) 2017, 6(1), 472-478, E-ISSN: 2278-4136 P-ISSN: 2349-8234.

10.	Jayakumar K, Anitha Jose, Ann Jefri Manuel, Archana Satheesh. Identification of Air Borne Fungal Contaminants of Curd in Indoor Environment. Pramana Research Journal. May, 2020. ISSN NO: 2249-2976
11.	Gautham Suresh, Jayakumar K, Rajesh MG. A study on Heavy Metal Accumulation in <i>Sida rhombifolia</i> L., Kerala. Pramana Research Journal. May, 2020. ISSN NO: 2249-2976
12.	Athira Mohanan, Jayakumar K, Jimitha PV. A Preliminary Analysis on the Bactericidal Properties of <i>Jasminum sambac</i> (L.) Aiton Essential Oil Against <i>Staphylococcus aureus</i> and <i>Pseudomonas aeruginosa</i> . International Journal of Pharmacy and Biological Sciences. 01/04/2020 10(2); 208-214. ISSN NO: 2230-7605
13.	Manoj GS, Greeshma GM, Pradeep DP, Arathy R, Remya Krishnan, Bosco Lawrence, Sumayya SS, Jayakumar K, Saiaba AN, Lubaiana AS, Chithra Vijayan, Dinesh Babu KV, Sunila AV, Anil Kumar VS, Greeshma Murukan, Meenu Krishnan VG, Aswathy JM, Sunu Kumar SS and Murugan K. Secondary Metabolites and their Antioxidant Activities: An Overview. EC Pharmacology and Toxicology, 8.10 (2020): 64-75.
14.	Abhirami Kannan and Jayakumar K. Isolation and characterization of phosphate solubilizing bacteria from the rhizospheric soil of Ponthenpuzha forest, Pathanamthitta (District), Kerala. Research Journal of Biotechnology, 2021: 16 (8); 110-117.
15.	J Jismon, K Jayakumar, SV Predeep. Anatomical studies on critically endangered <i>Inga cynometroides</i> (Bedd.) Bedd.ex Baker). International Journal of Botany Studies. 2021; 6(4); 690-693.

## 6. Research Projects Completed/on going

- Student Project (1-completed, funded by KSCSTE)

## 7. Seminars /Workshops Attended/Papers Presented/ Invited talks

Sl.No	Venue & Name of the program	Participation/ Invited/ Contributory	Title of the Paper, if any
1	Participated in the International Seminar on Fish Taxonomy and Aquaculture Practices organized by the P.G. and Research department of Zoology, N.S.S Hindu College, Changanacherry in collaboration with Mahatma Gandhi University, Kottayam from 06.08.2019 to 07.08.2019.	Participation	
2	Participated in the National Seminar cum Workshop on Molecular Biology and Statistical Tools organized by the department of Botany, Maharaja's College, Ernakulam from 07.11.2019 to 08.11.2019.	Participation	
3	Webinar on Research Indicators organised by Internal Quality Assurance Cell, SVR NSS College, Vazhoor on 12th November, 2020	Participation	
4	"Biodiversity and conservation". Organised by: PG Department of Botany and Nature Club (Sree Vidyadhi Raja NSS College, Vazhoor) in collaboration with Kerala State Biodiversity Board (Kowdiar, Thiruvananthapuram, Kerala) on 15th	Participation	

	July 2020.		
5	International Webinar on “Particle Physics” Organised by: Department of Physics, Sree Vidyadhi Raja NSS College, Vazhoor on 15th July 2020.	Participation	
6	Webinar on “Vocal Care for professional voice users” conducted by P.G department of Psychology and IQAC, KE College in collaboration with Department of Prevention of Communication Disorders, All India Institute of Speech and Hearing, Mysore	Participation	

## 8. Programs Organized

Sl. No.	Name of the Program	International/ National/Regional	Funding Agency
1.	Department of Botany conducted international webinar on “Fire Ecology in Neotropical forests and savannas” in collaboration with Nature Club, Kerala State Biodiversity Board and IQAC on 09/07/2020.	International	
2	Department of Botany conducted a webinar series on “Biodiversity and Conservation” in collaboration with Nature Club, Kerala State Biodiversity Board and IQAC on 15/07/2020.	Regional	

3	Department of Botany conducted an online quiz competition targeting students, research scholars and teachers all over India on the topic "Gender Sensitization" in collaboration with Nature Club, quiz club and IQAC on 28/07/2020.	National	
4	Department of Botany conducted an online quiz competition targeting students, research scholars and teachers all over India as a part of "INTERNATIONAL TIGERS DAY" celebration in collaboration with Nature Club, quiz club and IQAC on 29/07/2020.	National	
5	National photography contest organized by PG Department of Botany, Nature club and IQAC in association with Centre for Innovation in Science and Social Action (CISSA)	National	

### 9. Positions held or holding if any

Sl. No.	Details
	<b>Sree Vidyadhi Raja NSS College Vazhoor</b>
1	Ecotourism club coordinator
2	Nature club coordinator

## 10. Courses attended for Professional Development:

Sl. No.	Name of the course	Organizing Institute	Period
1	One week faculty development program on Capacity building in drafting proposals for funded research.	Organised by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and teaching of MHRD and St. Teresa's College (Autonomous), Ernakulam, Kerala.	05 to 11 October, 2020
2	One week international online faculty development programme on "Prospects of virtual teaching: Engaging learners and empowering teachers"	Organised by Mount Carmel College of Teacher Education for Women, Kottayam, Kerala 686004 in collaboration with School of Physical Education and sports sciences, Mahatma Gandhi	23 to 29 September, 2020.