CENTRE FOR ENVIRONMENT AND NATURAL DRUG RESEARCH (CENDR) PG & RESEARCH DEPT. OF ZOOLOGY Nehru Memorial College (Autonomous) Puthanampatti-621007.

Incharge: Dr. K. Saravanan Assistant Professor

Vidwan ID: https://vidwan.inflibnet.ac.in/profile/236368 ORCiD ID:https://orcid.org/0000-0003-4082-3143 Scopus Author ID: 56379814100 ResearcherID: AAT-4334-2020 RG: Kaliyaperumal Google scholar ID :PzoA3VEAAAAJ



Members: 1. Dr. C. Renuka (DST-FAST TRACK YOUNG SCIENTIST) Assistant Professor of Zoology. 2. Dr. G. Revathi Assistant Professor of Zoology



A	Achievements:					
1.	1. Major Research Project Received: 2					
2.	. Patent : Publishe	d 1 Design	Patent			
3.	. PhD guided	: 09				
4.	4. PhD guiding : 02					
5.	. M.Phil guided	: 35				
	MAJOR PROJECT RECEIVED					
	Project Title	Funding Agency	Period	Grant Received (Rs)		
	Isolation, Characterization and Evaluation of Antidiabetic Effect of Traditionally Used Herbal Plants	University Grants Commission (UGC), New Delhi.	01.06.2012 to 31.12.2015	8,99,500		

OUT PUT OF PROJECT



Dr. G. Revathi

PhD Awarded : 2



Dr.P. Karuppannan

4

Paper Published:

Compound Identification for Diabetic Treatments

Identification of Diabetic Plants: 16

Scientifically Tested Diabetic Plants: 8

Cyathea nilgiriensis	Andrographis alata,	Gymnema sylvestre,	Justicia glabra,
Andrographis paniculata	Adhatoda zeylanica,	Syzygium cumini	Ventiloga maderaspatana.

LIST OF Ph.D AWARDED (9)

S. No.	Name	Title of thesis	Year of award
1	C. Renuka	Effect of <i>Biophytum sensitivum</i> extracts in the treatment of experimental diabetic albino rats.	2012
2	S. Elavarasi	Evaluation of Antidiabetic Potential of Traditionally Used Medicinal Plants, <i>Cyathea nilgiriensis</i> (Holttum) and <i>Pterocarpus marsupium</i> Roxb. in Streptozotocin (STZ) induced Diabetic Rat Model.	2015
3	G. Priva	Evaluation of reproductive inhibitory effect of Abrus precatorius L. and Thespesia populnea (L.) in albino rat (Rattus norvegicus) and a few selected rodent pests [Mus booduga (Gray) and Bandicota bengalensis (Gray)].	2016
4	M.P. Santhi	Isolation and identification of anticancer compounds from <i>Biophytum sensitivum</i> and their evaluation against liver (HEPG-2) and cervical (HELA) cancer cell lines.	2016
5	G. Revathi	Evaluation of antidiabetic activity of traditionally used polyherbal drug and drug loaded chitosan nanoparticles on STZ induced diabetic rat model.	2016

6	P.Karuppannan	Evaluation of antidiabetic activity of red creeper (<i>Ventilago maderaspatana</i> Gaertn) of streptozotocin induced diabetic albino rat (<i>Rattus norvegicus</i>).	2018		
7	G. Manjula	Comparative evaluation of preservation techniques on physic-chemical and nutritional qualities of chicken egg.	2018		
8	R. Arul Priya	Phytochemistry and Anti-breast cancer activity of flavonoid rich plants against MCF-7 Cell lines under <i>in</i> <i>vitro</i> and <i>in silico</i> conditions.	2019		
9	B. Umarani	Evaluation of anti-lung and anti- breast cancer <i>Naravelia zeylanica</i> under in vitro, in vivo and in silico conditions	2021		
	PURSURING Ph.D				
S.No	Name	Title			
1.	P.Premalatha	Genetic Variability and bar-coding of freshwa Mussels	ıter		
3.	A.Ameena Begam	Anticancer Activity of Herbal Plants			

S. No.	Name of the scholar	JRF/SRF/Year	Amount (Rs)
1	C. Renuka	JRF (2008-2010) SRF (2010-2012)	1,44,000 4,32,000
2	S.Elavarasi	NTS-PhD Fellowship	6.00,000
3		Tamilnadu Educational Trust Scholarship	30,000
5	G. Priya	And Management Scholarship	22,500
4		Higher Education Department PhD scholarship And	50000
	G. Revathi	UGC-Project Assistant	3,30000
_		JRF (2013-2015)	4,08,000
5	R. Arul Priya	SRF (2015-2017)	11,16,000
6		JRF (2014 - 2016) SRF (2016 – 2019)	4,92,000 10,92,000
7	T. Katuppalitali Ms. B. Umarani	JRF (2014 - 2016) SRF (2016 – 2019)	4,92,000 10,92,000
8		JRF (2015 - 2017) SRF (2017 – 2020)	6,00,000 11,06,000

PATENT-DESIGN PUBLISHED = 1

Title: Nanotechnology based antimicrobial bandage Dispensing instrument

	4G 2:36		Voi) 4G 31
	PROPERTY IND PROPERTY IND PATENTS I DESIGNS I TRADE IN GEOGRAPHICAL INDICATIONS	NA AMOS GOVERIMATOR OF INDIA Controller General of Patholics Begartment of India	rnis,Designs and Trademarks unitud Policy and Promotion y of Commerce and Industry
	De	esign Application Details	
	Ap 353	plication Number: 3516-001	
	Cb	r Number: 0047	
	Cb	r Date: /11/2021 12:52:07	
	Ар 1. I	plicant Name: Mr. T. Purushothaman,	
	2. I 4. I	Dr. K. Saravanan, 3. Dr. G. Reva Dr. S. Elavarasi,	thi,
	5.1	Ms. Kavitha M.B, Ms. Jennifer Valentina J,	
	8.1	vir. Arpan Kumar Tripatni, Mr. Piyush Kumar Yadav,	
	De	esign Application Status	
	Ap Des No	plication Status: sign Accepted and Published, Jour is 53/2021 and Journal Date is	nal
DESIGN NUMBER		353516-001	
CLASS		24-04	
1.MR. T. PURUSHOTH/ BIOTECHNOLOGY & I SHRI GAMBHIRMAL E TAMILNADU, INDIA 2. RESEARCH DEPARTM	AMAN, ASS RESEARCH BAFNA NAG DR. K. SAF	ISTANT PROFESSOR, DEPARTMENT OF , SNMV COLLEGE OF ARTS AND SCIENC AR, MALUMICHAMPATTI, COIMBATOR AVANAN, ASSISTANT PROFESSOR, PG &	се, te, 2
PUTHANAMPATTI, TI REVATHI, ASSISTANT ZOOLOGY, NEHRU MI TIRUCHIRAPALLI, CO ASSITANT PROFESSO (AUTONOMOUS), TIRU	RUCHIRAP PROFESSO EMORIAL O IMBATORI R OF ZOOL JCHIRAPP	ALLI, TAMILNADU, COIMBATORE 3. DR DR, PG & RESEARCH DEPARTMENT OF COLLEGE, PUTHANAMPATTI, E, TAMILNADU, INDIA 4. DR. S. ELAVAR OGY, HOLY CROSS COLLEGE ALLI, TAMILNADU, INDIA , ET AL.	. G. ASI,
DATE OF REGISTE	RATION	22/11/2021	
TITLE		NANOTECHNOLOGY BASED ANTIMICROBIAL BANDAGE	2

PUBLICATIONS

Paper Published in Peer Reviewed Journals : 40

Book Published = 4

Scopus/ Web of Science/ UGC Care List Journals: 15

Vidwan ID: https://vidwan.inflibnet.ac.in/profile/236368 ORCiD ID:https://orcid.org/0000-0003-4082-3143 Scopus Author ID: 56379814100 ResearcherID: AAT-4334-2020 RG: Kaliyaperumal Google scholar ID :PzoA3VEAAAAJ

H index

Scopus: 8	WoS: 3	Google scholar: 10 (i10:10)
Citations		
Scopus: 95	WoS: 65	Google scholar: 399

LIST OF M.Phil AWARDED (35)

S.No	Candidate Name	Title of the dissertation	Year of Award
1	C. Renuka	Antidiabetic activity of <i>Trigonella foenum-</i> graecum on alloxan induced diabetic albino rats	2006
2	P. Sudha	Anti-dandruff actiivyt of a few selected herbal plant extracts and anti-dandruff shampoos against <i>Malassezia furfur</i>	2007
3	Maheshwari	Antidiabetic effect of <i>Biophytum sensitivum</i> in alloxan induced diabetic albino rats	2007
4	R. Revathi	Antifertility effect of <i>Cassia fistula</i> leaf extract on male albino rats	2008
5	C. Meenakshi	Antiulcer activity of <i>Alternanthera sessilis</i> on induced gastric ulcer in albino rats	2009
6	Thenmozhi	Antibacterial activity of the extracts of polyphorous sp. Against a few selected bacterial species	2009
7	P. Sivabakiyam	Immunostimulatory effect of amla powder extract on tilapia fish (Oreochromis mossambicus)	2010
8	S. Elavarasi	Immunostimulatory effect of lemon epicarp extract on tilapia fish (Oreochromis mossambicus)	2010
9	S. Suganya	Studies on prevalence of tobacco related/non-related products and alcohol usage among the rural people with reference to incidence of cancer, and anticancer activity of <i>Cissus quadranguaris</i> against breast cancer cell lines (MCF –7)	2010
10	S. Umananthini	Evaluation of antidandruff activity of <i>Cassia</i> <i>alata</i> leaf extracts on <i>Malassezia furfur</i>	2010
11	P. Sivasakthi	Antibacterial activity of <i>Cassia alata</i> against selected bacterial strains	2010
12	G. Revathi	Antiulcer activity of carrot (<i>Daucus carrota</i>) and radish (<i>Raphanus sativus</i>) in albino rat models	2011
13	F. Amala Rani	Prevalence of diabetes mellitus in Thiruthuraipoondi Taluk, Thiruvarur district, TamilNadu, Southern India	2012
14	N. Kavitha	Antibacterial activity of <i>Nerium indicum</i> against biofilm producing isolates	2012
15	R. Ranjani	Ethnopharmacognosy studies in and around remote hamlets of mullayanagiri and bababudanagiri hills, chikmagalur district, Karnataka	2012

16	V. Balan	Phytoresources as efficient therapeutic agents for cancer prevention and treatment	2013
17	R. Gopinath	Formulation and evaluation of low-cost natural medium for mass production of Spirulina (<i>Spirulina platensis</i>)	2013
18	J. Divya	Assessment of biochemical changes in Oreochromis mossambicus treated with chitosan nanoparticles synthesized from prawn shell	2015
19	G.Tamilselvi	Evaluation of antibacterial and antioxidant activities of <i>Citrullus colocynthis</i> (L) leaves	2015
20	P. Premalatha	Low cost production of spirulina (<i>Spirulina platensis</i>) through treatment of wastewater and utilizing the wastewater irrigation and flushing toilets	2015
21	N. Parvatham	Evaluation of phytochemical constituents and antibacterial activity of <i>Azadirachta</i> <i>indica</i> (Neem) flowers	2016
22	C. Sibikumar	Detoxifying effect of <i>Calotropis gigantia</i> flower extracts on heavy metal exposed tilapia fish (<i>Oreochromis mossambicus</i>)	2016
23	C. Thiruchelvan	Anticataract activity of mint (Mentha arvensis L.) on selenite induced cataract in goat eye lens	2016
24	K. Revathi	Toxic effect of Manihot esculenta leafextract on housefly (Musca domestica)	2016
25	S. Murugan	Effects of Vachellia nilotica leaf extract against house fly (Musca domestica)	2017
26	T. Kavitha	Anticataract activity of clove (Syzygium aromaticum L.) on selenite induced cataract in goat eye lens	2017
27	A.Vijaykumar	Larvicidal and Pupicidal Effects of Coccinia Grandis Gours Against the Filarial Vector, Culex Quinquefasciatus (SAY)	2017

28	G. Jayalakshmi	Evaluation of Antibacterial Activity of Tremite Species (Odontotermes formosanus) on selected bacterial Strains	2018
29	T.Thanalakshmi	Factors Influencing prevalence of Anaemia Among Adolescent School Students in Ayyampalayam, Trichy District.	2018
30	S. Senthilkumar	Evaluation of larvicidal and Pupicidal Activity of Root Extract of Manihot Esculenta Against Dengue Vector <i>Aedes Aegypti</i> .	2018
31	P. Mahalakshmi	Larvicidal and Pupicidal Activity of Leaf Extract of Manihot Against Dengue transmitting Vector Aedes Aegptyi.	2018
32	G. Thenmozhi	Population of Indian Peafowl (Pavo Cristatus)with Special Reference to Evaluation and Impact of pesticides used on Different Crops in Thuraiyur Area of Trichy District, Tamil Nadu, South India.	2019
33	K. Yamuna	Analysis of phytochemical compounds and in vitro antidiabetic activity of Capsicum annuum l. leaves aqueous extract	2020
34	T. Ramesh	Evaluation of Toxic Effect of Cassava (Manihot Esculenta) Root Extracts on Larvae And Pupae Of Malarial Vector (Anopheles Gambiae)	2021
35	S. Vijaya	Studies on epidemic of covid-19 and <i>in silico</i> anticovid-19 activity of selected Antiviral phyto compounds	2021

BOOK PUBLISHED (4) Chukwuebuka Egbuna Shashank Kumar Jonathan C Ifemeje Shahira M. Ezzat Saravanan Kaliyaperumal **Phytochemicals as** Drug Development for Lead Compounds for New **Cancer and Diabetes Drug Discovery** A Path to 2030 Editors K. Saravanan | Chukwuebuka Egbuna | Horne Iona Averal Soundarapandian Kannan | S. Elavarasi | Bir Bahadur CRC Press ASP ACADEMI CRC **AVAILABLE @ AMAZON** A MANUAL OF PRACTICAL ZOOLOGY: CTICAL INVERTEBRATE ZOOLOGY: CHORDATA, CELL AND MOLECULAR BIOLOGY MANUAL FOR STUDY OF MAJOR INVERTEBRATES Dr. K. SAF Dr. G. Thangamani PARTMENT OF ZOOLOG MEMORIAL COLLEGE (AUTONON PUTHANAMPATTI- 621 007 A PUBLICATIONS

SEQUENCE SUBMISSION TO GENBANK

MW680785 - Lamellidens marginalis - https://www.ncbi.nlm.nih.gov/nuccore/MW680785
MW680786- Lamellidens marginalis - https://www.ncbi.nlm.nih.gov/nuccore/MW680786
MW680787 -Parreysia favidens - https://www.ncbi.nlm.nih.gov/nuccore/MW680787
MW931864 - Lamellidens marginalis - https://www.ncbi.nlm.nih.gov/nuccore/MW931864
MW931865 - Parreysia favidens - https://www.ncbi.nlm.nih.gov/nuccore/MW931865
MW931866 - Parreysia favidens - https://www.ncbi.nlm.nih.gov/nuccore/MW931866
MW931867 - Lamellidens marginalis - https://www.ncbi.nlm.nih.gov/nuccore/MW931867
MW931868 - Parreysia corrugate - https://www.ncbi.nlm.nih.gov/nuccore/MW931868
MW931869 - Lamellidens brandti - https://www.ncbi.nlm.nih.gov/nuccore/MW931869
MW931870 - Radiatula caerulea-https://www.ncbi.nlm.nih.gov/nuccore/MW931870
MW931871 - Parreysia favidens - https://www.ncbi.nlm.nih.gov/nuccore/MW931871



COMPOUND IDENTIFIED FOR DIABETIC TREATMENT

- 1,-2-benzene carboxylic acid, butyl 2 ethyl hexyl ester 1
- 1-chloro-2-5-dinitro benzene 1
- Hexadecanoic acid
- Octadecenoic acid

COMPOUND IDENTIFIED FOR CANCER TREATMENT

- Quinoline
- Estra-1,3,5 (10) trien-17a-ol,3-methoxy-17-[2-methylally1]-)
- > 8,11,14-Eicosatrienoic acid
- Cyclohexane,1-(1,5-Dimethylhexyl)-4-(4-methylpentyl)-