

# RESEARCH

## Research Publications

Mrs.Krishna Prema K

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Madhan R., Selvakumar K., Vidhya Devi J., Krishna Prema K. and Kasturi Jayaraman	Isolation and Identification of Essential Phytochemical Constituents of <i>Amorphophallus campanulatus</i> and Screening its Antimicrobial Properties,	<i>Research Journal of Pharmacy and Technology</i> 5(2): 2012.
2.	Krishna Prema K. and Nirmala N	Seroprevalence of IgM And IgG antibodies against Rubella in Premarital Women.	<i>International journal on Applied Bioengineering, Sathyabama University</i> 2(6):2012
3.	Krishna Leena, Kalidasan Krishna Prema and Jayaraman Kasturi,	Comparative Study on Antimicrobial Resistance in Bacteria Isolated from Fresh, Frozen and Processed Tiger Prawn ( <i>Penaeus monodon</i> ),	<i>Journal of Modern Biotechnology</i> 4 (2) : Jul 2013, pp 73-76.
4.	Krishna Prema K. and Kasturi Jayaraman	Effect of <i>Lactobacillus</i> sp. and <i>Saccharomyces cerevisiae</i> on Gold fish <i>Carassius auratus auratus</i>	<i>Indian Journal of Applied Microbiology</i> , Indian Association of Applied Microbiologists, 2(16): Jul-Dec 2013, pp. 17-32.
5.	S. Lakshmi Priya and K. Krishna Prema	Screening and Isolation of Fibrinolytic Enzymes from Bacteria using Agro-waste for Thrombolytic treatment	<i>Research Journal of Pharmacy and Technology</i> 12(4): 2019.

## Paper Presentations

S.No	Name of the Presenter	Organizer Details	Date
1.	K.Krishna Prema	DBT, CSIR and TNSCST sponsored “International Symposium on Environmental Risk Assessment” organized by School of Life Sciences, Bharathiar University, Coimbatore	17 <sup>th</sup> to 19 <sup>th</sup> October 2011
2	K.Krishna Prema	National Conference on “Marine Biodiversity for new Biotechnological Applications” organized by Department of Life Sciences, Hindustan College of Arts and Sciences, Chennai	9 <sup>th</sup> December 2011

3	K.Krishna Prema	DBT sponsored National Symposium on 4“Application of Genomics and Proteomics in Aquaculture, Fisheries and Marine Biology” organized by Centre for Ocean Research, Sathyabama Institute of Science and Technology, Chennai	20 <sup>th</sup> and 21 <sup>st</sup> June 2018
4.	K.Krishna Prema	16 <sup>th</sup> National level conference of Indian Association of Applied Microbiologists on 'Human Microbiome in PersonalMedicine – A Bridge between Humans & Microbes for Future Sustainability' organized by JSS Academy of Higher Education and & Research, Mysuru	28 <sup>th</sup> and 29 <sup>th</sup> September 2018.

#### **Resource Person in other Institutions**

1. In-service Training Programme conducted by Institute of Advanced Study in Education, Saidapet, Chennai on 28<sup>th</sup> November 2012.
2. Centrally sponsored In-service Training Programme at by Lady Willingdon Institute Advanced Study in Education, Saidapet, Chennai on 7<sup>th</sup> December 2012.
3. Workshop on Art of Thesis Writing organized by Annai Violet Arts and Science College, Chennai on 8<sup>th</sup> February 2017.
4. Seminar on Opportunities in Microbiology organized by Annai Violet Arts and Science College, Chennai on 29<sup>th</sup> September 2017.

#### **MANAGEMENT PROJECT DETAILS :**

<b>S.No</b>	<b>Name of the Principal/Co Investigator</b>	<b>Title of the Project</b>	<b>Funding Agency</b>	<b>Fund Amount</b>	<b>Status</b>
1.	Dr.K.Krishna Prema and Mrs. G. Sangeetha Vani	Screening of immune status against Rubella virus in premarital women (2015-2016)	Ethiraj College Trust	Rs.10000/-	Completed

**Dr.(Mrs) V.Gayathri**

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	V.Gayathri,C.GangaBaheerathi,K.Revathi,SathyanarayanaSethi	Identification of gut microflora from Green mussel,..	<i>Journal of Advanced Biotechnology.</i> pp 119-122,Vol 10,Issue 10, April 2011
2.	V.Gayathriand Dr.K.Revathi	Isolation of <i>Vibrio sps</i> .and other predominant bacteria from green mussels in Muthukadu, Tamilnadu..	<i>Indian Journal Of Applied Microbiology</i> pp114-119,Vol : 15,No.2 ISSN NO: 2249-8400,July - December2012.
3.	V. Gayathri and Dr.K.Revathi.	A study on the presence of heavy metal in <i>pernaviridis</i> ( green mussel ) and water of Ennore estuary ,south east coast of India.	<i>International Journal Of Biotechnology</i> ,pp : 8-14,Vol : 1Issue :1Year: 2012.
4.	V.Gayathriand Dr.K.Revathi.	Occurrence of <i>Escherichiacoli</i> and other coliform bacteria in Green Mussels of Ennore Estuary.	Indian Journal Of Applied And Pure Biologypp: 95-101,Vol : 28,No. 1ISSN No.:0970-2091 January 2013.
5.	V.Gayathriand Dr.K.Revathi.	Water quality of Chennai backwaters. .	Indian Journal of Biological studies and Research.pp.159-163,Vol:2, Issue :2Year :June 2013.
	V.Gayathri and Dr.K. Revathi	Seasonal variations of heavy metal distribution in waters and green mussel of Ennore and Royapuram ..	Nature , Environment And Pollution Technology, Technoscienc epublications. Vol : 12 No: 3Year: 2013.ISSN NO: 0972-6268.
6.	J.Nasreen and V.Gayathri.	Preparation of Antibacterial herbal Mouthwash against oral pathogens.	International Journal of current Microbiology and Applied Sciences.Vol:5 Number 11 Year :2016) ISSN :2319-7706.
7.	Padmavathy and V.Gayathri.	Microbiological Analysis of Major Sea Food Consumed in Coastal Area of Chennai, Tamil Nadu.	<i>International Journal of current Microbiology and Applied Sciences.</i> Vol:6 Number 12(2017) ISSN :2319-7706, pp2689-2697
8.	Aparna .M and V.Gayathri.	Formulation of culinary plant medicine against bacterial skin infections caused by	<i>Journal of pure and Applied Microbiology</i> . Vol:12 Issue

		<i>Staphylococcus sps.</i> and <i>streptococcus sps.</i>	3(2018) ISSN :0973-7510 ( UGC approved and Scopus indexed Journal) pp 1607-1615, H index - 12, Cites per document – 0.170, External sites – 0.169
9.	Gayathri and V.Gayathri.	Formulation of bacterial and fungal isolates for the degradation of sanitary napkins in invitro conditions.	Asian Journal of Microbiology, Biotechnology and Environmental Sciences .Vol:20, Supplement no 2,2018, pp232-238 ISSN : 0972-3005( UGC approved and Scopus indexed Journal)H index -13,Cites per document – 0.11, External sites – 0.107
10.	Aparna.M and V.Gayathri.	Preparation of a common Herbal Medicine with culinary plants for skin infections caused by <i>Candida albicans</i> and <i>Propionibacterium</i> .	Global Journal of Bio-Science and Biotechnology, Vol 8(2),April 2019. ISSN -2278-9103(UGC approved Journal ) pp-235-240.

**PAPERS PRESENTED :**

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	Gayathri.V,	Bacterial contamination of Green mussel, <i>Pernaviridis</i> at Ennore Estuary, South east coast of India,	AMSCO, Annamalai University.	2010
2.	Gayathri.V,	Pathogenic bacteria and heavy metal accumulation in <i>Pernaviridis</i> from Ennore Estuary, South East Coast of India.	Aquatic Biotoxin 2011, Annamalai University.	2011

3.	Gayathri.V,	A pollution assessment study and heavy metal distribution in water and green mussels ( <i>pernaviridis</i> ) of Ennore estuary, South East Coast of India.	Impact of climate change on Coastal Ecosystem Sathyabama University, 2011.	2011
4.	Gayathri.V,	Indicator bacteria in green mussels from Ennore estuary and Royapuram, Tamil Nadu,	National Conference on New Vistas in Indian Aquaculture. CIBA.	2012
5.	Gayathri.V,	Environmental Factors influencing human pathogens .	National Conference on Biodiversity Conservation and Sustainable Management KuvempuUniversity, Karnataka.	2014
6.	Gayathri.V,	Preparation of a common Herbal Medicine with culinary plants for skin infections caused by <i>Candida albicans</i> and <i>Propionibacterium acnes</i> .	National Conference on Current Trends on Conservation of Biodiversity for Food,Nutrition and Health. Prof.Dhanapalan College,Kelambakkam,Chennai,2019	2019
7.	Gayathri.V,	Antibacterial activity of the ink and tissue extract from <i>octopus dollfusi</i> against the human urinary pathogen,	Marine natural products as pharmaceutical agents,Sathyabama University	2019

## MANAGEMENT PROJECT DETAILS :2

S.No	Name of the Faculty Members	Title of the Project	Funding Agency	Fund Amount	Status
1.	Dr.V.Gayathri	Bioremediation Of Crude Oil In Sea Water Using Hydrocarbon Degraders With Carriers (Banana Peel,BananaStem,Gravel And Sediment) And Nutrients	Ethiraj College Trust	Rs.10000/-	Completed and Published
2.	Dr.V.Gayathri	Biodegradation of crude oil using <i>Pseudomonas luteola</i> and screening for biosurfactant production	Ethiraj College Trust	Rs.15000/-	Ongoing

### Dr.(Mrs) C. Ganga Baheerathi

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Ganga Baheerathi C. and Revathi K. (2013),	“A comparative study on the presence Of halophilic Vibrios in Crassostrea madrasensis from the backwaters of Chennai coast”	Nature Environment and Pollution Technology – Annexure ii, (An international open access journal on diverse aspects of environment), Scopus SJR = 0.156 Vol.12, No.3, pp.439-442, ISSN 0972-6268. 2013.
2.	Ganga Baheerathi C. and Revathi K.	“Seasonal Variation in heavy metal accumulation in edible oyster Crassostrea madrasensis from Royapuram coastal water	Indian Journal of Biological Studies and Research, IJBSR, Vol.2, No.2, pp.108-111,ISSN no: 2231-6922.2013
3.	Ganga Baheerathi C. and Revathi K.	Bacterial contaminants in Crassostrea madrasensis harvested from Muttukadu backwaters”.	Indian Journal of Applied and Pure Biology, Vol.28, No.1.2013, ISSN NO: 0970-2091.
4.	Ganga Baheerathi C., V Gayathri , Revathi K. and Sathyanarayana sethi .	Seasonal variation and identification of pathogenic pollution indicators from royapuram back water.	Journal of advance bio tech, Vol-10 Issue 10, Page no 111-114, ISSN No-0973: 0109.
5.	Ganga Baheerathi C. and	Bacteriological examination of back ater	Indian journal of applied

Revathi K.	from fishing harbor of ennore creek in Chennai coast-	microbiology- Vol-15, No2 Payer 100-106, ISSN No (2012)
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### LIST OF PRESENTATIONS

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	C.Ganga Baheerathi	“Seasonal variations and Identification of pathogenic pollution Indicators from Royapuram backwaters”	International Conference on the Implications of Biotechnology on Biodiversity and its Conservation , M.S.Swaminathan Research foundation – Chennai and Plant Biotechnology, Ethiraj college for women(Autonomous) .	January 27th and 28th 2011,
2.	C.Ganga Baheerathi	Presence of fecal coliforms indicator bacteria in Muttukadu back waters”,	International Conference on Impact of climate changes on coastal ecosystem – ICC-ECO 2011. Sathyabama University and Ministry of earth sciences.	November 10th and 11th 2011.
3.	C.Ganga Baheerathi	Bacterial flora of <i>Crassostrea madrasensis</i> in Chennai Coast.	International Conferences on Aquatic Microbiology (Status, Challenges and Opportunities) Centre of advanced study in Marine Biology, Faculty of Marine Sciences, Annamalai University:	September 2nd to 4 <sup>th</sup> 2010.
4.	C.Ganga Baheerathi	Bacterial flora of <i>Crassostrea madrasensis</i> at Ennore estuary along Tamil nadu coast of India	International Seminar on Microbes – Elixir of Life. Dr.MGR Janaki College of Arts and Science for Women ,Chennai.	October 28 <sup>th</sup> and 29 <sup>th</sup> 2010
5.	C.Ganga Baheerathi	“A comparative study on the bacterial contaminants in the edible shell fishes <i>Perna viridis</i> and <i>Crassostrea madrasensis</i> in	National Conference on Aquatic Bio toxins. Centre of Advanced study in Marine Biology, Faculty of Marine Sciences. Annamalai University	September 14th to 16th 2011.

		Kalpakkam coast”		
6.	C.Ganga Baheerathi	A study on the presence of pollution indicating Escherichia coli in Crassostrea madrasensis collected from the fishing areas of Chennai”,	National Conference on Biodiversity Conservation and Sustainable Management, Department of Zoology Kuvempu university.	25th and 26th March, 2014.,
7.	C.Ganga Baheerathi	A study on the bacterial flora of Indian backwater edible oyster, <i>Crassostrea madrasensis</i> from northern Chennai Coastal water.Name of the Conference: National Conferences on “New vistas in Indian Aquaculture”Coastal Aquaculture Society of India – Chennai.	Central Institute of Brackish water Aquaculture – Chennai.	February 23rd and 24 <sup>th</sup> 2012.
8.	C.Ganga Baheerathi	Screening of Total heterotrophic bacteria E.coli, and Vibrio Sp. from edible oysters, water and sediments of Estuarine aquatic bodies from Chennai coast .	National Seminar on Recent trends in Microbial Technology with reference to Extremophils.Department of Microbiology, Periyar University	October 21 <sup>st</sup> and 22 <sup>nd</sup> 2010.
9.	C.Ganga Baheerathi	A study on the bacterial flora of Indian backwater edible oyster, <i>Crassostrea madrasensis</i> from Royapuram back waters.National,February	Conference on Marine Environmental Challenges and Coastal zone Management - Marina '12.Department of Marine Sciences, Bharathidasan University	13 <sup>th</sup> and 14 <sup>th</sup> 2012.



## Dr.A. Subhashini

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Alavandi S.V., Subhashini M S and Ananthan S.	Occurrence of hemolytic <i>Aeromonas</i> species in domestic water supplies in Chennai.	Indian J.Med Res; 1999:50-55
2.	Subhashini M.S. and Rajendran P.	<i>In vitro</i> screening of anti HBV and anti HIV properties of <i>Gymnema sylvestre</i> R.Br.leaves from Kolli Hills, Tamil Nadu, India.	Int.J.Curr. Microbiol. App.Sci; 2015 4(3):542-547.
3.	Subhashini M.S. Rajendran P., Ashok G. and Kanthesh B.M.	TLC, FTIR and GCMS analysis of leaves of <i>Gymnema sylvestre</i> R.Br. from Kolli Hills, Tami Nadu, India.	<i>Int.J.Curr.Microbiol.App.Sci.</i> Int.J.Curr. Microbiol. App.Sci; 2015 4(7):757-764
4.	Divyalakshmi S, and Subhashini A.	Screening and isolation of polyethylene degrading bacteria from various soil environments.	IOSR journal of Environmental Sciences, Toxicology and Food Technology;10(12): 2016
5.	Pavithra S, Prathiba G, Subhashini A.	MRSA in Gymnasium Community.	Int. J. Sci. Res. 2017; 6(6):2082-2086.

## PAPER PRESENTATION

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	A. Subhashini	“Speciation and Enteropathogenicity of Aeromonas Species isolated from Water Sources in Chennai”	XXII National Congress, Kasturba Medical College, Manipal Academy of Higher Education, Manipal	9 <sup>th</sup> November 1998.
2.	A. Subhashini	Antiviral activity of certain Indian Medicinal Plants against Hepatitis B virus and Human Immunodeficiency Virus.	Karpagam University (6 <sup>th</sup> Annual research Congress)	5 <sup>th</sup> December 2014
3.	A. Subhashini	Cytotoxic analysis of ethanolic extracts of <i>Gymnema sylvestre</i> , <i>Hybanthus enneaspermus</i> and <i>Terminalia bellerica</i> and <i>insilico</i> docking of GCMS compounds against HIV and HBV.	Karpagam University(7 <sup>th</sup> Annual research Congress)	26 <sup>th</sup> December 2015.
4.	A. Subhashini	Screening of MRSA in Community at 16 <sup>th</sup> National Conference on at JSS Academy Mysuru.	National Conference on	27 <sup>th</sup> and 28 <sup>th</sup> September 2018

## POSTER PRESENTATION

Presented a paper titled Presented a poster titled “Phytochemical screening and HIV reverse transcriptase inhibition activity of *Gymnema sylvestre*” at International Conference on Medicinal Plants and Herbal Drugs for Human Welfare (ICMP 2015) at Centre for Advanced Studies in Botany and Centre for Herbal Sciences 28-30<sup>th</sup> January 2015.

**GEN BANK SUBMISSION:** Submitted Nucleotide sequence in Gen bank sequence ID KX344032 of plastic degrading bacteria on 27 May 2016.

**MANAGEMENT FUNDED PROJECT**

S.No	Name of the Principal Investigator	Title of the Project	Funding Agency	Fund Amount	Status
1.	Dr. A. Subhashini	Investigation of Chemo-therapeutic potential of L-asparaginase isolated from soil dwelling microorganisms. 2018-19	Ethiraj College Trust	Rs.10000/-	Ongoing
2.	Mrs. G. Sangeetha Vani & Dr. A. Subhashini	Optimization, Molecular Characterization and anticancer activity of L-Asparaginase from soil bacterial isolates (2019 - 2020).	Ethiraj College Trust	Rs.15000/-	Ongoing

**GEN BANK SUBMISSION:** Submitted Nucleotide sequence in Gen bank sequence ID KX344032 of plastic degrading bacteria on 27 May 2016.

**REFRESHER COURSE :**

- Attended UGC sponsored Refresher course on techniques in Molecular Biology and Genomics 28.11.2005- 17.12.2005 (21 days) at School of Biotechnology, SRM Institute of Science and Technology

**SHORT TERM TRAINING COURSE:**

- Participated in AICTE sponsored Short Term training Course on Challenges in Biofuels and bioenergy from 11.11.2019 to 16.11.2019 at St. Joseph's College of Engineering.

**MOOC Courses:**

- Completed NPTEL Online certification course on Biomedical Nanotechnology (4 week course) offered by IIT, Roorkee ,Aug-Sep 2019.

**Dr.(Mrs) Anusha Balasingh**

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Sandhya, Anusha Balasingh	Bioremediation of crude oil and study of the hydrocarbon degrading isolates, their	Global journal of bioscience and biotechnology volume 8(1 2019)

		Biosurfactant activity against human pathogens	
2.	Rima Das, Anusha Balasingh, Anupam R	Bacteriophage therapy for treating multiple drug resistant urinary tract pathogen, <i>Escherichia coli</i> .	Int.Journal of Life Sciences ,2018;6(2):441-445.
3.	Anupama R, Anusha Balasingh	Isolation, purification and characterisation of bacteriocin producing <i>Lactobacillus spp</i> and its antimicrobial efficacy against foodborne pathogens.	International Journal of Microbiology research Vol 5, Issue 2 April -June 2018
4.	Leena., Anusha Balasingh	Biodegradation of hexavalent chromium, oil and grease in paper mill effluent using <i>Micrococcus luteus</i> and <i>Bacillus aquimaris</i> isolated from soil.	International journal of advanced research. Vol 3, Issue12, 402-407 . 2015.
5.	V.A. Leslie., A. Margaret Muthu Rathinam and Anusha Balasingh	Rapid identification of <i>Vibrio harveyi</i> isolates in <i>Panulirus homarus</i>	International Journal of Current Microbiology and Applied Science Vol 3, Issue 12 402-407 2011
6	Anusha Balasingh S. Prasanna Kumar	Purification and characterization of keratinase from dermatophytes.	Advanced Biotechnology Vol 10 Issue 10 April 2011
7	Leslie V.A., Margaret Muthu Rathinam A and Anusha Balasingh	Distribution profile of <i>Vibrio harveyi</i> in <i>Panulirus homarus</i> .	International Research Journal of Biological Sciences Res. J. Biological Science Vol. 1(4), 61-64
8	Anusha Balasingh, S. Prasanna Kumar	Antidermatophytic activity of Neem ( <i>Azadirchta indica</i> ) Seed and Leaf Extracts against Clinical Isolates of <i>Trichophyton rubrum</i> and <i>Trichophyton mentagrophytes</i> .	Research Journal of Biological Sciences Vol. II (I).2010

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	Anusha Balasingh	Occurrence of Nail infection in Diabetic – mellitus patients.	Silver Jubilee Conference Dept. of Microbiology, PGIBMS.	2008
2.	Anusha Balasingh	Purification and characterization of Keratinase from dermatophytes,	International Conference on Implications of Biotechnology on Biodiversity and its Conservation, Ethiraj College for women.	<b>2011</b>
3.	Anusha Balasingh	Identification of Luminous <i>Vibrio harveyi</i> in spiny lobster <i>Penaeus homarus</i> reared in captivity.	National Conference on Marine diversity for Biotechnological applications. Hindustan College of Arts and Science.	<b>2011</b>
4.	Anusha Balasingh	Bioremediation of crude oil by hydrocarbon degrading organisms isolated from sea water sample by Gravimetric analysis and applications of its biosurfactants as antimicrobial agent.	JSS AHER, Mysuru	2018
5.	Anusha Balasingh	Isolation and purification of lectins from <i>Agaricus bisporus</i> and studies on anti-proliferation effect on breast cancer cell line,	University of Hyderabad, Telangana	<b>2018</b>
6.	Anusha Balasingh	Biodegradation of hexavalent chromium, oil and grease in paper mill effluent using <i>Micrococcus luteus</i> and <i>Bacillus</i>	Department of Microbiology. Saveetha Dental College, Chennai	2019

		<i>aquimaris</i> isolated from soil,	
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### CERTIFICATION COURSES -NEPTEL

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1. Certificate course on **Patent drafting for Beginners**, National programme on technology enhanced learning conducted by Indian Institute of technology, May,2018
2. Certificate course on **Research Writing**, National programme on technology enhanced learning conducted by Indian Institute of technology, May,2018
3. Certificate course on **Introduction to Proteomics**, National programme on technology enhanced learning conducted by Indian Institute of technology, May ,2018

### ACCOLADES

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- Secured best oral paper award in micro-summit 2019 organised by the department of Microbiology in Saveetha Dental College and Hospitals conducted on 3 August ,2019
- Secured the third place in Petri Art Competition in the International Conference of Association of Microbiologists in the University of Hyderabad , December2018
- Fellowship Award conferred by the Indian Association of Applied Microbiologists,2018
- Certificate of Appreciation in delivering a Fitness Talk in O2 Health Studio, Savera Hotel ,2018

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**Dr.(Mrs) S. Nandhini**

### RESEARCH PUBLICATIONS:

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	S. K. Maiti , S. Nandhini , Manab Das	Accumulation of metals by naturally growing herbaceous and tree species in iron ore tailings	International Journal of Environmental studies. Issue: volume 62(5):593-603.2005.
2.	S.K.Maiti and S.Nandhini	Bioavailability of metals in fly-ash and their bioaccumulation in naturally occurring vegetation; A pilot scale study.	Environmental Monitoring and Assessment. Vol.116 (1):263-273.2006
3.	S.Nandhini and K.Revathi	Study on Biofouling Organisms present on the surface of Boats in Royapuram, Chennai.	National Environment and Pollution Technology ISSN:0972-6268. Vol 15(1):257-261.2016

4.	S.Nandhini and K.Revathi	Antifouling Activity of Extracts from Mangroves against Biofouling Bacteria Isolated from Boats in Royapuram, Chennai, India.	Int.J.Curr.Microbiol.App.Sci. 5(8): 324-335.2016
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**PAPER PRESENTATION:**

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	Subodh Kumar Maiti, I.N. Sinha, S.Nandhini, Kheya De and Debalina Das.	Micronutrient mobility and heavy metal uptake in plants growing on acidic coal mine dump.	NSEEME, Dhanbad, March 19-20.	2004.
2.	Subodh Kumar Maiti and S. Nandhini.	Bioavailability of metals in fly ash and their bioaccumulation in naturally occurring vegetation.	NHEEI, Bangalore, November 17-19.	2004
3.	Subodh Kumar Maiti and S. Nandhini.	Bioremediation of Fe-ore tailings and bioaccumulation of metals in the naturally occurring vegetation. A case study of Noamundi Fe-ore tailings, TISCO, Noamundi.	International Seminar on “Mineral Processing Technology (MPT-2005)”.	January 6-8, 2005
4.	Subodh Kumar Maiti, S. Nandhini and A.S.Venkatesh.	Evaluation of bioremediation and related environmental geochemical aspects of copper mine waste from Mosabani, Eastern India.	International Seminar on “Mineral Processing Technology (MPT-2005)”.	January 6-8, 2005
5.	Subodh Kumar Maiti	Heavy metal distribution	Conference on “Technological	February 5-

	and S. Nandhini. 2005.	pattern in fly ash in CTTTP (Jharkhand) and in spontaneously occurring vegetation.	Advancement and Environmental Challenges in Mining and Allied Industries in the 21 <sup>st</sup> century (TECMAC-2005)”; NIT, Rourkela,	6,2005.
6.	Subodh Kumar Maiti and S. Nandhini. Conference on	Heavy metal distribution in Fe-tailing of Noamundi mines and accumulation in the spontaneously occurring vegetation.	“Technological Advancement and Environmental Challenges in Mining and Allied Industries in the 21 <sup>st</sup> century (TECMAC-2005)”, NIT, Rourkela,	February 5-6, 2005
7.	Subodh Kumar Maiti, S. Nandhini and Gurdeep Singh.	Bioavailability of Micronutrients and Heavy Metals in Reclaimed Coalmine Overburden Dumps and their Bioaccumulation in Tree Species: A Case Study.	“First Indian Mineral Congress & technological exhibition” showcasing mineral industry in 21 <sup>st</sup> century. ISM, Dhanbad,	February 28-March 01, 2005
8.	S.Nandhini and K.Revathi.	Study of biofouling organisms on the surface of boats in Royapuram, Chennai.	The 10 <sup>th</sup> Indian Fisheries and aquaculture forum (10ifaf), Lucknow.	12-15 November, 2014
9.	S.Nandhini, K.Revathi and J.Lavanya.	Antifouling activity of extracts from mangroves against biofilm forming bacteria isolated from boats in Kasimedu, Chennai.	National Conference on Recent Trends in Modern biology and 46 <sup>th</sup> Aqua-terra Annual Conference, Madurai.	27-28 February.2015.
10.	S.Nandhini and K.Revathi.	Antimicrobial activity of <i>Loligoduvauceli</i> ink against biofouling bacteria isolated from boats in Royapuram, Chennai.	XV AZRA International Conference on recent advances in Life Sciences, Chennai.	11-13 February. 2016
11.	S.Nandhini and M.NusrathFarhana.	Efficacy of Pericarp of Pomegranate ( <i>Punicagranatum</i> ) extract as a preservative in	International Conference on World Women’s Day 2019 held on at Tamil University.	8 <sup>th</sup> March 2019



		restructured chicken blocks.	
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### Minor Project

S.No	Name of the Principal/Co Investigator	Title of the Project	Funding Agency	Fund Amount	Status
1.	Dr. Vidhya C.V.& Dr. S. Nandhini	Study on prevalence of anticyclic citrullinated peptide antibody- An early marker for Rheumatoid Arthritis in young women.	Ethiraj College Trust	Rs.15000/-	Ongoing

**Mrs. M. Linnett Naveena**

### Research Publications:

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Mohan, N and Naveena,ML,	Isolation and Determination of Efficacy of Acephate Degrading Bacteria from Agricultural Soil.	IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402, p- ISSN: 2319-2399. Volume 9, Issue 3 Ver. II, PP 10-20.2015
2.	Mahalakshmi,R and Naveena, ML.	Usage of Banana Pseudostem Waste for the Production of Potassic Biofertilizer using Cellulolytic Bacteria.	Int.J.Curr.Microbiol.App.Sci.2016.5(8):336-349.2016
3.	Naveena, ML and Gowrie, U	Identification of plant growth promoting rhizobacteria (PGPR) from revegetated soils of lignite mines of Neyveli, Tamil Nadu.	Int J Pharma Bio Sci 2018 January; 9(1): (B) 122-129.
4.	Naveena, ML and Gowrie, U,	Potential metabolites of <i>Bacillus subtilis</i> strain isolated from rhizospheric soils of revegetated mine spoil dumps.	Indian Journal of Environmental Protection 39(10): 938-944.2019
5.	M.Linnett Naveena and Vidhya C.V.	Assessing the potential of Rhizobacteria in mine spoil remediation.	<i>Global Journal of bioscience and Biotechnology</i> . April, 2019. Vol 8(2). 241-245.

**Paper Presentation:**

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	M.Linnett Naveena	Phytochemical analysis and PGPR traits of bacterial isolates from revegetated lignite mine spoil dumps of Neyveli, Tamil Nadu” .	National Conference on Biomaterials from Microorganism and Medicinal Plants for Human welfare. Vels University, Chennai.	29-30 <sup>th</sup> September 2016.
2.	M.Linnett Naveena	“Isolation and evaluation of bioactive potential of rhizosphere bacteria from plants found inco minespoil of Neyveli lignite mines” .	International Seminar on Biotechnology- Challenging the Challenges of the Changing World	4-5 <sup>th</sup> February, 2015.
3.	M.Linnett Naveena	“Evaluation of plant growth promoting traits of bacteria isolated from plants found in lignite mine soil of Neyveli, Tamil Nadu” .	XV AZRA International Conference on Recent Advances in Life Sciences	11-13 <sup>th</sup> February, 2016.
4.	M.Linnett Naveena	‘Studies on probiotic microorganisms’	National Food Conference on Food Technology ‘Food Care ’04. JJ College of Arts and Science	22-23 <sup>rd</sup> December 2004.
5.	M.Linnett Naveena	“Isolation of acid and bile tolerant <i>Lactobacillus</i> sp”	National Congress on Bioscience Research, Ethiraj College For Women, Chennai	27-28 <sup>th</sup> August, 2011

## FUNDED PROJECTS

S.No	Name of the Principal/Co Investigator	Title of the Project	Funding Agency	Fund Amount	Status
1.	Mrs.M.Linnett Naveena & Dr. Vidhya C.V.	Phytoremediation of Mine Spoil using heavy metal resistant Rhizobacteria. 2017.	Ethiraj College Trust	Rs.10000/-	Completed and Published
2.	Mrs.M.Linnett Naveena	Minor Research Project Assessing the potential of Plant Growth Promoting Rhizobacteria ( PGPR) in the reclamation of lignite mine soil" No.F MRP-6775/16 ( SERO/UGC) dt June 2017	University Grants Commission ( UGC)		Ongoing

**Dr.(Mrs). Vidhya C.V.**

## PAPERS PUBLISHED

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Vidhya C.V. and Niren Andrew S.	Prevalence and antibiogram of multidrug resistant <i>Staphylococci</i> .”	<i>Indian Journal of Applied and Pure Biology</i> . July 2012. Vol. 27 : (2),p 271-277.
2.	Vidhya C.V. and Niren Andrew S.	Comparative study on antibiograms of coagulase positive and negative <i>Staphylococci</i> isolated from various samples.	<i>Journal of Pure and Applied Microbiology</i> . September 2012. Vol. 6 : (3). p 1357-1361.
3.	Vidhya C.V. and R.Aasha	Isolation, optimization and production of Polyhydroxyalkanoates (PHA) from soil bacteria.	<i>Global Journal of bioscience and Biotechnology</i> . February, 2018. Vol 7(4).
4.	Vidhya C.V.	Production and Optimization of Extra-cellular protease from <i>Ganoderma</i> .	<i>Research J. Pharm. and Tech.</i> April 2019. 12(4).

5.	Vidhya C.V. and M.Linnett Naveena	Assessing the potential of Rhizobacteria in mine spoil remediation.	<i>Global Journal of bioscience and Biotechnology</i> . April, 2019. Vol 8(2). 241-245.
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- Paper presented Abstract : “Comparative study on antibiograms of coagulase positive and negative *Staphylococci* isolated from various samples.” *American Journal of Bio-pharmacology Biochemistry and Life Sciences*. March 2012. Vol. 1: (Suppl 1): A66

**“PAPERS PRESENTED:**

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	Vidhya C.V.	“Production and optimization of extracellular protease from <i>Ganoderma sp.</i> ”	International symposium on Environmental risk assessment, Bharathiar University.	October 2011.
2.	Vidhya C.V.	Comparative study on antibiograms of coagulase positive and negative <i>Staphylococci.</i> ”	International conference on Biosciences - Trends in molecular Medicine. D G Vaishnav College, Chennai.	February 2012.
3.	Vidhya C.V.	Antibacterial activity of Neem leaf extracts and oil against various pathogens.	“National conference on Microbiology and Biotechnology: Rising to the Challenges of Times. Madras Christian College, Chennai.	February 2013.
4.	Vidhya C.V.	“Molecular Profiling of Coa and Mec A genes from Multidrug resistant <i>Staphylococcus aureus.</i> ”	XV AZRA International Conference on Recent Advances in Life sciences. Ethiraj College for Women, Chennai.	February 2016.
5.	Vidhya C.V.	Optimization of parameters for rapid production of	59 <sup>th</sup> Annual conference of Association of Microbiologists of India (AMI 2018)	9 <sup>th</sup> -12 <sup>th</sup> December,

		extra-cellular protease by <i>Ganoderma sp.</i>	& National symposium on host pathogen interactions. University of Hyderabad. Telanagana.	2018.
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#### MANAGEMENT FUNDED PROJECT: 2

S.No	Name of the Principal/Co Investigator	Title of the Project	Funding Agency	Fund Amount	Status
1.	Mrs.M.Linnett Naveena & Dr. Vidhya C.V.	Phytoremediation of Mine Spoil using heavy metal resistant Rhizobacteria. 2017.	Ethiraj College Trust	Rs.10000/-	Completed and Published
2.	Dr. Vidhya C.V.& Dr. S. Nandhini	Study on prevalence of anticyclic citrullinated peptide antibody- An early marker for Rheumatoid Arthritis in young women.	Ethiraj College Trust	Rs.15000/-	Ongoing

#### GENBANK ACCESSION NUMBERS : 10

**GenBank Accession Numbers of Coa and Mec A genes from multidrug resistant *Staphylococcus aureus*. December 2014.**

BankIt1781580Seq1 KP255447  
 BankIt1781580Seq2 KP255448  
 BankIt1781580Seq3 KP255449  
 BankIt1781580Seq4 KP255450  
 BankIt1781580Seq5 KP255451  
 BankIt1781580Seq6 KP255452  
 BankIt1781580Seq7 KP255453  
 BankIt1781580Seq8 KP255454  
 BankIt1781580Seq9 KP255455  
 BankIt1781580Seq10 KP255456

**Dr.(Mrs). Mary Sheela J.**

#### PUBLICATIONS

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
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1.	Mary Sheela J	Antibacterial effect of ink gland extracts from Indian squid <i>loligo duvauceli</i> and cuttle fish <i>sepia officinalis</i> from north Chennai,	Indian journal of applied Microbiology.VOLUME 17,JAN-JUNE 2014,PP-32-37, ISSN NO-2454-289X
2.	Mary Sheela J	Formulation and evaluation of gel using ink gland extract from Indian squid <i>Loligo duvauceli</i> .	International journal of current Research,volume 8,issue 10,pp-39607-39610,October 2016, ISSN-0975-833X
3.	Mary Sheela J	Antifungal activity of cell extract of spirulina platensis against aflatoxin producing <i>Aspergillus species</i> .	Indian journal of applied Microbiology.VOLUME 4, Nov2015, PP-1025-1029. ISSN-0975-833X

### PRESENTATION OF RESEARCH PAPERS

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	Mary Sheela J	A Study on Antibacterial activities in the aqueous extract from seed of <i>Madhuca indica</i> “	Annual Conference of Indian Association of Biomedical Scientists (IABMS,2003)New Delhi	2016
2.	Mary Sheela J	A Study of <i>invitro</i> synergistic activity in the aqueous extract of <i>Terminalia chebula</i> and <i>Decalipes hamiltoni</i> against gastroenteritic bacteria” at	28 <sup>th</sup> annual conference of Indian Association of Medical Microbiologists.	2004
3.	Mary Sheela J	“A piolet study on Ink gland extracts from Indian	“The 10 <sup>th</sup> Indian Fisheries and aquaculture forum (10ifaf).	12-15, November,

		squid <i>loligo duvauceli</i> and cuttle fish <i>sepia officinalis</i> from north Chennai against skin pathogens.		2014.
4.	Mary Sheela J	Formulation of natural hair dye using herbal extract and squid ink possessing antimicrobial activity.	National Conference on Recent Trends in Modern biology and 46 <sup>th</sup> Aqua-terra Annual Conference (Madurai Kamaraj University)	27-28 February, 2015

### Dr.G. Sangeetha Vani

#### Paper Publications

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	G.Sangeetha Vani, D.Geetha,T.Anand and K.S.Subramaniam.	A study on isolation of <i>Streptococcus mutans</i> and its in vitro susceptibility to extracts from <i>Ficus bengalensis</i> Linn, <i>Terminalia chebula</i> Reitz, <i>Terminalis bellirica</i> Roxb, <i>Piper betel</i> and <i>Schizigium aromaticum</i> Linn. S.Rajajaran,	Ind J of App Microbiology (2006)6(1):26-28.
2.	S.Rajajaran, G.Sangeetha Vani, D.Geetha,T.Anand and K.S.Subramaniam.	A study on isolation of <i>Streptococcus mutans</i> and its in vitro susceptibility to extracts from <i>Ficus bengalensis</i> Linn, <i>Terminalia chebula</i> Reitz, <i>Terminalis bellirica</i> Roxb, <i>Piper betel</i> and <i>Schizigium aromaticum</i> Linn.	Ind J of App Microbiology (2006)6(1):26-28.
3.	G.Sangeetha Vani, S.Rajajaran.	A study on <i>in silico</i> analysis of phytochemicals targeting the proteins of Hepatitis B and hepatitis C virus.	Int.J.Curr,Microbiol.App.Sci (2015)4(12):ISSN 2319-7706, 683-691pp.
4.	G.Sangeetha Vani, S.Rajajaran .	A study on <i>in vitro</i> antiviral activities of lyophilized extracts of <i>Glycyrrhiza glabra</i> on Hepatitis B virus..	Int. J of Pharmacological Research (2016) IJPR Vol 6, Issue 6: ISSN 2277-3312
5.	S.Jayashree, G.Sangeetha Vani.	<i>In vitro</i> study on antibacterial activity of aqueous extract and silver nanoparticles of	Int.J.Curr,Microbiol.App.Sci(2016)5(5): ISSN 2319-7706,400-

		<i>Andrographis paniculata.</i>	406pp.
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### PAPERS PRESENTED

S.No	Name of the Presenter	Organizer Details	Date
1.	Sangeetha Vani G.	16th National conference of IAAM at JSS Academy of Higher Education and Research, Mysore.	27th and 28th September 2018
2.	Sangeetha Vani G.	International Conference on Molecular Signature – GenNxt at Dr.MGR. Janaki College for Women, Chennai.	13 <sup>th</sup> and 14 <sup>th</sup> September 2017
3.	Sangeetha Vani G.	XXVII National Conference on IAMM at Mumbai.	7-9 <sup>th</sup> November 2003
4.	Sangeetha Vani G.	International Conference on Medicinal Plants and Herbal Drugs for Human Welfare (ICMP 2015) at Centre for Advanced Studies in Botany and Centre for Herbal Sciences.	28-30th January, 2015

### MANAGEMENT FUNDED PROJECT: 3

S.No	Name of the Principal/Co Investigator	Title of the Project	Funding Agency	Fund Amount	Status



1.	Mrs. G. Sangeetha Vani and Dr.K.Krishna Prema	Screening of immune status against Rubella virus in premarital women (2015-2016)	Ethiraj College Trust	Rs.10000/-	Completed
2.	Dr. A. Subhashini & Mrs. G. Sangeetha Vani	Investigation of chemotherapeutic potential of L-Asparaginase isolated from soil dwelling microorganisms (2018 - 2019).	Ethiraj College Trust	Rs.15000/-	Completed
3.	Mrs. G. Sangeetha Vani & Dr. A. Subhashini	Optimization, Molecular Characterization and anticancer activity of L-Asparaginase from soil bacterial isolates (2019 - 2020).	Ethiraj College Trust	Rs.15000/-	

### TRAINING PROGRAM

- Attended a short term training program on prospects and challenges in Biofuels and Bioenergy on 11<sup>th</sup> -16<sup>th</sup> NOV 2019 at St.Joseph's College of Engineering, Chennai.

**Dr. (Mrs.) M.Reenaa**

### Publications

S.No	Name of the Author/s	Title of the Paper	Journal Name and details
1.	Reena Banerjee, Rajendran P, Ganapathy M, Satish T, Thyagarajan S.P	<i>Haemophilus ducreyi</i> : A potential re-emerging STD pathogen and its antibiogram.	Indian Journal of Applied Microbiology. 2001; (1): 17 – 21.
2.	Rajendran P, Priya Thyagarajan S.P, Kannan Hari R, Kanthesh B.M, Reena Banerjee, Abdul Rahim Saravanan M.S, Haripriya Sripathi M.S, Vijayakumar V	Serological studies in relation to Syphilis, Acquired Immuno Deficiency Syndrome, Hepatitis B – Virus and Hepatitis C – Virus infection in patients attending sexually transmitted diseases intravenous drug users clinics, from Chennai, Tamilnadu, India.	Indian Journal of Applied Microbiology. 2002; 2: 17 – 22.
3.	Reena Banerjee, Rajendran P, Thyagarajan S.P, Ganapathy M, Satish T, Selwyn W, Kanthesh B.M,	Identification of plasmid DNA in <i>Haemophilus ducreyi</i> from chancroid cases.	Indian Journal of Applied Microbiology. 2002; 2 (1): 45 – 46.

	Abdul Rahim M.		
4.	Reena M, Rajendran P.	gmh A gene expression and virulence in <i>Haemophilus ducreyi</i> from chancroid cases.	Biomedicine.2009; 29 (4): 373 – 375.
5.	Reena M.	Effect of sizing mill effluent on the digestive enzymes of the fish <i>Oreochromis mossambicus</i> .	Journal of Advanced Biotechnology.2011; 10 (10): 48 – 51.
6.	Reena M, Krishnamala K.	Antibiotic susceptibility pattern of PCR confirmed <i>Salmonella typhimurium</i> isolated from food samples in Chennai.	Indian Journal of Applied Microbiology.2013; 16 (1): 51 – 54.
7.	Shabana Razmin, Reena M, Vishnu Prasad, Rajendran P.	Hepatitis C and B virus infection among chronic renal failure patients undergoing haemodialysis in Calicut, Kerala State, India.	Asia Pacific Journal of Research.2013; 9 (1): 11 – 16.
8.	Reena M, Sai Arpitha S.	Decolourising activity of laccase enzyme from <i>Trametes</i> sps against textile dyes.	International Journal of Engineering & Scientific Research.2015; 3 (9): 92 – 101.
9.	Reena M.	Antimicrobial activity of <i>Tridax procumbens</i> against multidrug resistant <i>Pseudomonas aeruginosa</i> isolated from burn cases.	Indian Journal of Applied Microbiology.2016; 19 (1): 58 – 65.
10.	Thameem Fathima A, Reena M.	Anticancer and Antibacterial activity of <i>Ganoderma lucidum</i> .International	Journal of Current Microbiology and Applied Sciences.2016; 5 (10): 891 – 909.

11.	Reena M, Vadivukkarasi D.	Prevalence of <i>Streptococcus mutans</i> in public and private pre-school children.	Indian Journal of Applied Microbiology.2016; 19 (2) : 52 – 57.
12.	Reena M, Athira S. Menon.	Synthesis of silver nano particles from different citrus fruit peel extracts and a comparative analysis on its antibacterial activity.	International Journal of Current Microbiology and Applied Sciences.2017; 6 (7): 2358 – 2365.
13.	Reena M, Gurpreet Kaur.	Anti-enteric Potentials of Six Common Food Spices.	International Journal of Current Research and Academic Review.2017; Special Issue - 4: 165 - 172.

### Paper Presented

S.No	Name of the Presenter	Title of the paper	Organizer Details	Date
1.	M.Reena	“Characterisation of <i>Haemophilus ducreyi</i> isolated from genial ulcer” -	XXIV National Congress, - IAMM, Belgaum.	Nov 2000.
2.	M.Reena	“Effect of sizing mill effluent on the Digestive tract Microbial communities and digestive enzymes of the fish <i>Oreochromis mossambicus</i> ”	International Conference on Implications of Biotechnology on Biodiversity & its Conservation, hel, conducted by Department of Plant Biology & Plant Biotechnology, Ethiraj College for Women, Chennai.	27 <sup>th</sup> & 28 <sup>th</sup> January 2011,