

## CURRICULUM VITAE

Name : Mr. P. PALANIAPPAN  
Designation : Assistant Professor  
Qualification : M.Sc., (PhD),  
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622 102  
Teaching Experience : 5 Years



<b>S.No</b>	<b>Name of the Institution</b>	<b>Period of Service</b>
1.	J.J. College of Arts and Science (Autonomous)	9.06.2014 to Till Date

### **Publications**

**Research papers** : 12  
**Citations / h – index / i 10 - index** : 244/ 05 / 05  
**Cumulative Impact Factor** : 9.34  
**Book (s) Published** : Nil  
**Book Chapter** : 3

### **Area of specialization:**

Molecular microbial ecology, Bio- nanotechnology

### **Field of interest:**

Plant and Microbe Interaction  
Endophytic and nodule-forming plant growth promoting bacteria  
Plant Growth Promoting Rhizobacteria  
Bioactive compounds from marine macro algae

## Awards and Achievements

S.No	Name of Award	Awarding Agency	Year
1	Brain Korea (BK)-21 – Research fellowship	Advance Agricultural Biotechnology, Chungbuk National University Republic of Korea	2007-2010
2	National Cadet Corps-“B” Certificate Passed	Authority of Ministry of Defence, Government of India	2002
3	National Cadet Corps	Army Attachment Camp <b>67 Armored Regiment</b> , Hyderabad, India Authority of Ministry of Defence, Government of India	2001

## Research Projects ongoing

S.No.	Funding Agency	Amount (Rs.)	Topic	Period	Status
1.	UGC- MRP (Principal Investigator)	Rs. 3,20,000	Development of nano drug delivery system for controlled cancer therapy using Bioconjugated Gold nanoparticles synthesized from Marine Macroalgae, <i>Caulerpa racemosa</i>	2018-2020	Ongoing

## List of Publication:

**P. Palaniappan**, G.Sathiskumar, R.Sankar. (2015) Fabrication of nano-silver nanoparticles using *Cymodocea serrulata* and its cytotoxicity effect against human lung cancer A549 cells line. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. <http://dx.doi.org.10./1016./j.saa2014.10.072>. **Impact factor – 2.931.**

**Pitchai Palaniappan**, Puneet Singh Chauhan, Venkatakrisnan Sivaraj Saravanan, Rangasamy Anandham and Tongmin Sa (2010) Isolation and characterization of plant growth promoting endophytic bacterial isolates from root nodule of *Lespedeza* sp. *Biol Fertil Soils*. 46:807–816 **Impact factor – 4.829.**

**Pitchai Palaniappan**, Perumal Malliga, Sellamuthu Manian, Sivaperumal Sivaramkrishnan, Munusamy Madhaiyan, and Tongmin Sa (2010). Plant growth promontory effect on cow pea (*Vigna unguiculata* L.) using coir pith aqueous extract formulation of cyanobacterium *Phormidium*. *American-Eurasian J. Agric. & Environ. Sci.*, 8 (2): 178-184. **Impact factor – 0.129.**

Ramachandran Vijayan, **Pitchai Palaniappan**, Tongmin Sa, Padmanaban Elavarasi and Natesan Manoharan (2013) Rhizobitoxine enhances nodulation by inhibiting ethylene synthesis of *Bradyrhizobium elkanii* from *Lespedeza* species: Validation by Homology modeling and Molecular docking study. *World Journal of Pharmacy and Pharmaceutical Sciences* (2) 5: 4079-4094. **SJIF Impact factor – 7.632**

Md. Rashedul Islam, Pankaj Trivedi, **Pitchai Palaniappan**, M.S.Reddy , Tongmin Sa (2009) Evaluating the effect of fertilizer application on soil microbial community structure in rice based cropping system using fatty acid methyl esters (FAME) analysis. *World J Microbiol Biotechnol* 25: 1115-1117. **Impact factor – 2.652.**

Woo-Jong Yim, Selvaraj Poonguzhali, Munusamy Madhaiyan, **Pitchai Palaniappan**, M.A. Siddikee, and Tongmin Sa (2009) Characterization of Plant Growth Promoting Diazotrophic Bacteria Isolated from Field Grown Chinese Cabbage under Different Fertilization Conditions. *The Journal of Microbiology* 42: 147-155 **Impact factor – 2.319.**

Kyoung –A Kim, P. Indiragandhi, R.Anandham, **P.Palaniappan**, P.Trivedi,M.Madhayan, Gwang-Hyun Han, and Tong Min Sa (2008) *In vitro* Evaluation of the Mechanism of Antagonism and Phosphate Solubilization by the Insect Gut Bacteria *Pseudomonas* sp. PRGB06 that Exhibits Plant Growth Promotion and Bio-Fertilizing Traits. *Korean Journal of Soil Science and Fertilizer*. 41: 18-25

Min-Kyoung Lee, Gil-Seung Lee, Woo-Jong Yim, In Soo Hong, **P.Palaniappan**, Md.Ashaduzzaman Siddikee, Hari P.Deka Boruah, Munusamy Madhaiyan, Ki-SupAhn, and Tongmin Sa (2009) Inoculation Effect of *Methylobacterium suomiense* on Growth of Red Pepper under Different Levels of Organic and Chemical Fertilizers. *Korean Journal of Soil Science and Fertilizer*. 42: 266-27.

**P Palaniappan**, Woojong Yim, M Madhaiyan, HP Deka Boruah, MR Islam, Tongmin Sa (2009 )Evaluation of efficient nodule formation and plant growth promoting traits of rhizobia isolated from *Lespedeza* sp. Korea. *Korean Journal of Soil Science and Fertilizer* 102-103.

HP Deka Boruah, PS Chauhan, WJ Yim, IS Hong, **P Palaniappan**, MK Lee, TM Sa (2009) Effect of Pytohormone and 1-aminocyclopropane-1-carboxylate Deaminase Producing *Methylobacterium* sp. on Root Growth and Early Seedling Development of Non-host Crops Red Pepper . *Korean Journal of Soil Science and Fertilizer*. Pages 565-566.

PS Chauhan, Md Rashedul Islam, Woojong Yim, **P Palaniappan**, CC Shagol, Tongmin Sa (2010)Assessment of community level functional diversity and enzymatic activity in paddy soils under different long-term fertilizer management practices. *Korean Journal of Soil Science and Fertilizer*5 : 165-166.

MR Islam, PS Chauhan, Woojong Yim, Gillseung Lee, **P Palaniappan**, Tongmin Sa (2010) Physicochemical Properties and Diversity of Diazotrophic Bacteria of Paddy Soil Sample under Long-term Fertilizer Management Experiment *Korean Journal of Soil Science and Fertilizer* 10 : 243-244.

Books/Reports/Chapters/General articles etc. (Publication in Proceedings):

Sl. No	Author(s)	Title of the Article	Name of the Event	Volume & Page No.	Year of Publication	Publisher if any
1	<b>Pitchai Palaniappan,</b> Rangasamy Anandham, Sivaraj Saravanan, Swati Sood, Arvind Gulati, Sivaperumal Sivaramakrishnan, Ramaligam Karthik Raja and Tongmin Sa	Isolation, Biochemical Characterization and Nodulation Efficiency of <i>Bradyrhizobium</i> , <i>Rhizobium</i> and Other Endophytic Bacterial Strains Recovered From <i>Lespedeza</i> sp. of South Korea	<i>Advances in Biotechnology and Patenting,</i>	ISBN: 9789351073079.	2014	ELSEVIER A division of Reed Elsevier India Pvt.Ltd
2.	Woo-Jong Yim, S. Poonguzhali, H.P.Deka Boruah, <b>P.Palaniappan</b> and Tong – min Sa	Colonization pattern of <i>gfp</i> tagged <i>Methylobacterium suomiensis</i> on rice and tomato plant root and leaf surfaces	19 <sup>th</sup> World Congress of Soil Science, Soil Solutions for a Changing World,	97-102	2010	Brisbane, Australia. Published on DVD.
3.	<b>P.Palaniappan</b> , P.S., Chauhan, M., Madhaiyan, H.P. Deka Boruah, and T.M. Sa	Genetic Diversity based on 16S rDNA sequencing associated with root nodule bacteria of legume in <i>Lespedeza</i> spp.	(ESAFS) SOUTH KOREA.	S5P17	2009	ESAFS) SOUTH KOREA.
4	R. Anandham, P. Indira Gandhi, M.Madhaiyan, W.J. Yim <b>P.Palaniappan</b> , T.M. Sa.	Thiosulfate oxidation pathway and plant growth promotion potential of Proteobacteria and Actinobacteria isolated from crop plants.	<b>EUROSOIL, Vienna, AUSTRIA</b>		2008	<b>EUROSOIL, Vienna, AUSTRIA</b>

**Participation in Conferences / Workshops / Symposia / Seminar etc.  
International Conference**

S.No.	Presented/ Participated	Date & Place	Topic
1	Participated	20 th February 2020. J.J. College of Arts and Science (Autonomous) Pudukkottai	Experimental Animal`s model : Care , Maintenance and Handling
2	Participated	23 <sup>rd</sup> , January 2020 Indo-Australia Workshop at NIT, Triuchirappalli.	Nanomaterials for Applications in Agriculture, Energy and Environment.
3	Presented	27 <sup>th</sup> .0219. UGC-DAE CSR, Kolkata	Development of nano drug delivery system for controlled cancer therapy using Bioconjugated gold nanopartilce from marine macroalgae with <i>in vitro</i> and <i>in vivo</i>
4	Participated	November 21, 2019 Pre – Conference workshop LASA India at IISER , Pune.	Establishing Indian College of Laboratory animal medicine (ICLAM): A Specialty Program of LASA India.
5	Participated	November 23 & 23, 2019 Pre – 9 th International Conference LASA India at IISER, Pune.	“ Laboratory Animals in Biomedical Research-The Way Forward,,
6	Participated	18 <sup>th</sup> to 20 th 2018 J.J. College of Arts and Science (Autonomous) Pudukkottai	Science Academies lecture Workshop
7	Presented	15 <sup>th</sup> Feb 2019 J.J. College of Arts and Science (Autonomous) Pudukkottai	Mushroom Technology
	Participated	26 & 27 sep 2019, J.J. College of Arts & Science (Autonomous) Pudukkottai	Recent trends in Drug Discovery, Development and Targeted Delivery System For cancer.
8	Presented	18-21 <sup>th</sup> , 2013 International Conference on Department of Biotechnology, Bharathidasan University, Tiruchirappalli	Phenotypic, metabolic diversity and plant growth promoting and nodulation efficiency of <i>Bradyrhizobium</i> , <i>Rhizobium</i> strains from herbaceous legumes of South Korea
9	Participated	2 <sup>nd</sup> & 3 <sup>rd</sup> September 2016 J.J. College of Arts and Science (Autonomous)	New Frontiers and Innovative trends in Biosciences.

		Pudukkottai	
10	Participated	29 & 30 November 2016 Faculty Development Programme J.J. College of Arts and Science (Autonomous) Pudukkottai	Aspirations and Inspirations –A psychological Impetus on pedagogy, professional Ethics and personal Dynamics.
11	Presented	21 <sup>st</sup> & 22 <sup>nd</sup> December 2018 State level Conference on Role of IQAC in Higher Education Institutions. J.J. College of Arts and Science (Autonomous) Pudukkottai	Need for urgent academic reforms in higher Education
12	Participated	22.02.2018 & 23.02.2018 J.J. College of Arts and Science (Autonomous) Pudukkottai	Entrepreneurial skill within Life science graduate-Inculcation and Innovation
13	Presented	1 <sup>st</sup> & 2 <sup>nd</sup> March 2018 J.J. College of Arts and Science (Autonomous) Pudukkottai	Rhizobitoxine enhances nodulation by inhibiting ethylene synthesis of <i>Bradyrhizobium elkanii</i> from Validation by Homology modeling and Molecular docking study
14	Presented	8 <sup>th</sup> & 9 <sup>th</sup> March J.J. College of Arts and Science (Autonomous) Pudukkottai	Green synthesis, phytochemical analysis and evolution of antimicrobial activity of silver nanoparticle from <i>cymodocea serrulata</i> .
15	Presented	27 <sup>th</sup> & 28 September 2018 J.J. College of Arts and Science (Autonomous) Pudukkottai	Antimicrobial activity of colloid silver nanoparticles synthesized by using <i>cymodocea serrulata</i> .

**Gene Accession No. submitted to NCBI GenBank database**

GQ181022 to GQ181060 - 39 First Author and 150 Co-Author

**Research Guidance**

1 M.Sc., Guiding : 01 Completed : 5

### **Awards and Achievements**

1. **In Charge - Mushroom Production and Training** from August 2018 to Till Date.
2. **Member of Board studies in Biochemistry** - J.J. College of Arts and Science  
(Autonomous)

### **DECLARATION:**

I hereby declare that the above details are true for the best of my knowledge

(P. PALANIAPPAN)