

Name : Dr. J. EBENEZAR IMMANUEL

Designation : Assistant Professor

Department : Botany

Date of Joining : 06-07-2006

Phone No : 9444499642

Email : jebenezar@gmail.com



Educational Qualification:

DEGREE	SUBJECT	COLLEGE / UNIVERSITY & PLACE	YEAR COMPLETED
B.Sc	Botany	The American College	2000
M.Sc	Botany	The American College	2002
M.Phil	Botany	CAS in Botany Madras University	2004
Ph.D	Botany	CAS in Botany Madras University	2007

Specialisation in Teaching: Plant pathology, Microbiology, Biotechnology

Specialisation in Research:

- M.Phil – Specialization in Mycology
- Ph.D – Plant Pathology (Plant pathogen Interaction)

Research Interests: Bioremediation, Rhizoremediation

Membership in Professional Bodies:

- PLASCIA Plant Science association president two terms
- Botany department colloquium president two terms

Awards / Fellowships:

Best presentation – National Conference on recent trends in P/H Biotechnology organized by Dept of P/t science Bharathidasan University 27-28th February 2013

UGC Sponsored Projects

Major Project

Title	Year of Award	Amount Awarded	Status of the project- Completed/On going	Co-investigator, if any
Screening florets revdomnas straits from the forest soil of sathuragirihills for its genebic divessity and agrobiactive compound seduction	2011-2014	6,80,000	Ongoing	

Other activities / academic credentials:

Dr. J. Ebenezar Immanuel, Asst. Professor in Botany, The American College, Madurai

Ph.D Botany (Spl Plant Pathology) Centre for Advanced studies in Botany. University of Madras Chennai. India

Title: Molecular analysis of 2,4-diacetylphloroglucinol production by strains of pseudomonas fluorescense in rice rhizosphere and assessment of its role in suppression of sheath blight disease in rice

Journal/Books Publication

1. Palaniyandi velusamy, Dr. J. Ebenezar Immanuel, Samuel. S. Gnanamanickam and Linda Thomashow (2006) Biological control of rice bacterial blight by plant-associated bacteria producing 2,4-diacetylphloroglucinol. *Canadian Journal of Microbiology* 52:56-65
2. Sam S. Gnanamanickam and J. Ebenezar Immanuel (2006) Epiphytic bacteria their ecology and function pp. 131-154 In: *Plant-Associated Bacteria*, Samuel. S. Gnanamanickam (Ed) Kluwer Academic Publishers. Printed in Netherlands
3. S. S. Gnanamanickam, V. Karthikeyan, **J. Ebenezar Immanuel**, Boney Kuriakose, V.Arun, N.N.Narayanan and Swapan K. Datta (2004). Molecular Breeding of Indica Rices for Blast and Bacterial Blight Resistance. Prof. H. Shekar Shetty Birthday Commemorative Volume. Publishers: Department of Applied Botany and Biotechnology, University of Mysore, India.149-161
4. Palaniyandi Velusamy, **J. Ebenezar Immanuel**, Samuel. S. Gnanamanickam and Linda Thomashow (2006). Biological control of rice bacterial blight by plant-associated bacteria producing 2,4-diacetylphloroglucinol. **Canadian Journal of Microbiology**. 52:56-65
5. Sam S. Gnanamanickam and **J. Ebenezar Immanuel** (2006). Epiphytic bacteria, their ecology and function. pp131-154. *In: Plant-Associated Bacteria*, Samuel. S. Gnanamanickam (Ed). **Springer Academic Publishers**. Printed in Netherlands.

6. **J Ebenezar Immanuel**, R.Hemamalini and SS Gnanamanickam (2012).Genetic diversity of biocontrol strains of *Pseudomonas fluorescens* producing 2,4-diacetylphloroglucinol from south India. Journal of crop improvement. 26:228-243. ISSN 1542-7528 **Journal of Crop Improvement**
7. P Veluchamy, **J. Ebenezar Immanuel** and SS Gnanamanickam (2013) Rhizosphere bacteria for biocontrol of bacterial blight and growth promotion of rice. **Rice Science** 20 (5).

International/National Proceedings

1. Dr. J. Ebenezar Immanuel and S. S Gnanamanickam Bacterial inoculants for the suppression of rice Bacterial blight and Sheath blight in India : Role of 2,4-Diacetylphloroglucinol in disease suppression. Asian conference on Emerging Trends In Plant – Microbe Interactions University of Madras Chennai India December 8-10, 2005.
2. Karthikeyan V, S.S. Gnanamanickam Kavitha S, Bharath Kumar S, Boney KUriakose, Arun V, Purushothaman and J. Ebenezar Immanuel Biological Control of Setaria blast (*Magnaporthe grisea*) with proven bio control strains Asian Conference on Emerging Trends In Plant-Microbe Interactions Universtiy of Madras Chennai India December 8-10,2005.
3. S.S. Gnanamanickam and J. Ebenezar Immanuel Bacterial inoculants for the suppression of rice Bacterial blight in India: Role of 2,4-Diacetylphloroglucinol in disease suppression 1st International Symposium on Biological Control of Bacterial Diseases, Darmstadt Germany October, 23-26,2005

Presentation

International Conference / Seminar

1. Dr. J. Ebenezar Immanuel and S.S. Gnanamanickam Bacterial inoculants for the suppression of rice Bacterial Blight and Sheath blight in India: Role of 2,4-Diacetylphloroglucinol in disease suppression. Asian conference on Emerging Trends In Plant – Microbe Interactions University of Madras Chennai. India December 8-10, 2005
2. Kathikeyan V.S.S. Gnanamanickam Kavitha S. Bharath Kumar S, Boney Kuriakose, Arun V, Purushothaman and J. Ebenezar Immanuel Biological Control of Setaria blast (*Magnaporthe grisea*) with proven biocontrol strains asian Conferecne on Emerging Trends In Plant – Microbe Interactions Universtiy of Madras Chennai India December 8-10, 2005
3. S.S. Gnanamanickam and J. Ebenzar Immanuel. Bacterial inoculants for the suppression of rice Bacterial Blight in India Role of 2,4-Diacetylphloroglucinol in disease suppression 1st International symposium on Biological Control of Bacterial Diseases, Darmstadt Germany October, 23-26,2005
4. J. Ebenzar Immanuel, R. Hemamalini suresh kuru and J. Ebenzar (2011) Effect of calixiu (*Tridemorph*) on the biology of colletotrichum fakatum plant archives Vol. 11-No 2.

5. J. Ebenezar Immanuel., R. Hemamalini & S.S Gnanmanickam (2011) Genetic diversity of biocontrol strains of *Pseudomonas fluorescens* producing 2,4-diacetylphloroglucinol
Journal of crop improvement
6. J. Ebenezar Immanuel., palani yandi velusamy & S.S. Gnanamanickam (2013) Rhizosphere bacteria for biocontrol of bacterial blight and growth promotion in rice
rice science

National conference / seminar

1. J. Ebenezar Immanuel, S.S. Gnanamanickam and R. Hemamalini Characterization of *Bacillus polymyxa* species for its biocontrol and PGPR activity National conference on Advances in plant pathology centre for advanced studies in Botany University of Madras, Chennai India March 11-12, 2010
2. J. Ebenezar Immanuel, R. Hemamalini and S.S. Gnanamanickam Role of 2,4-diacetylphloroglucinol in the suppression of *Rhizoctonia solani* causing sheath Blight disease of rice national seminar on Fungal Biotechnology University Chennai 4th and 5th March 2010
3. J. Ebenezar Immanuel, and S.S. Gnanmanickam Role of 2,4-diacetylphloroglucinol producing *Pseudomonas fluorescens* in the suppression of sheath blight disease of rice national conference on recent trends in mycological research & 33rd Annual meeting of the mycological society of India JJ College of Arts and Science pudukkotai, Tamil Nadu 28th & 29th December 2006.
4. S.S. Gnanmanickam and J. Ebenezar Immanuel, Biological diversity of rhizosphere bacteria developed as agents of biological control of rice disease in India National conference on Agro biodiversity National Biodiversity authority Of India February 12-15, 2006
5. J. Ebenezar Immanuel, and Ebenezer, P. Effect of Calixin (Tridomorph) on the biology of *Colletotrichum falcatum* National symposium on "Recent Trends in Biology Biodiversity and Biotechnology of Fungi Centre for Advanced Studies in Botany University of Madras, Chennai India, February -5-6, 2004
6. J. Ebenezar Immanuel, Isolation and characterization of *Pseudomonas fluorescens* strains from the foot hills of sathuragiri hills for its production of antimicrobial compounds against plant pathogens National conference on microbial technology for sustainable development gandhigram Rural Institute – Deemed university 1&2 February 2013
7. J. Ebenezar Immanuel, characterization autogonistic study of *Pseudomonas fluorescens* strains isolated from the foot hills of sathuragiri hills Tamilnadu National conference on recent trends in plant biotechnology Dept of Phd sciences school of life sciences Bharathidasan University 27th – 28th February 2013 best oral presentation
8. J. Ebenezar Immanuel, characterization and genetic diversity study of *Pseudomonas fluorescens* strains National Conference in plant pathology centre for advanced studies in Botany, University of Madras 27th & 25th March 2013

MEETINGS/SYMPOSIA ATTENDED

1. **J. Ebenezar Immanuel and Ebenezer, P.** Effect of Calixin (Tridemorph) on the biology of *Colletotricum falcatum*. National Symposium on “Recent Trends in Biology, Biodiversity and Biotechnology of Fungi” Centre for Advanced Studies in Botany, University of Madras, Chennai. India. February 5-6, 2004.
2. **J. Ebenezar Immanuel. and S. S. Gnanamanickam** Bacterial inoculants for the suppression of rice Bacterial blight and Sheath blight in India: Role of 2,4-Diacetylphloroglucinol in disease suppression. Asian Conference on Emerging Trends In Plant – Microbe Interactions. University of Madras. Chennai. India. December 8-10, 2005.
3. **Karthikeyan V, S. S. Gnanamanickam, Kavitha S, Bharath Kumar S, Boney Kuriakose, Arun V, Purushothaman and J. Ebenezar Immanuel.** Biological Control of Setaria blast (*Magnaporthe grisea*) with proven biocontrol strains. Asian Conference on Emerging Trends In Plant–Microbe Interactions. University of Madras. Chennai. India. December 8-10, 2005.
4. **S. S. Gnanamanickam and J. Ebenezar Immanuel.** Bacterial inoculants for the suppression of rice Bacterial blight in India: Role of 2,4-Diacetylphloroglucinol in disease suppression. 1st International Symposium on Biological Control of Bacterial Diseases, Darmstadt. Germany. October, 23-26, 2005.
5. **S. S. Gnanamanickam and J. Ebenezar Immanuel.** Biological diversity of rhizosphere bacteria developed as agents of biological control of rice diseases in India. National Conference on Agrobiodiversity. National Biodiversity Authority of India. India February 12-15, 2006.
6. **J Ebenezar Immanuel (Paper presentation).** Role of 2,4-diacetylphloroglucinol in the suppression of *Rhizoctonia solani* causing sheath light disease of rice. National seminar on fungal biotechnology. Department of biotechnology, School of life science, Vels University, Chennai. 4th - 5th March 2010.
7. **J Ebenezar Immanuel (Paper presentation).** National conference on Advances in plant pathology. CAS in Botany University of Madras. Chennai. India 11- 12th march 2010.
8. **J Ebenezar Immanuel (Participated).** Workshop on scouting, documentation and dissemination of grassroots and traditional knowledge. Dept. of Botany The Madura college. Madurai. 31st October 2010.
9. **J Ebenezar Immanuel. Participated** in the 64th Orientation Programme organized by the Academic Staff College, Madurai Kamaraj University, Madurai. Tamil Nadu 1st -28th February 2012.
10. **J Ebenezar Immanuel (Paper presentation).** Isolation and characterization of *Pseudomonas fluorescens* strains from the foot hills of Sathuragiri hills for its production of antimicrobial compound against plant pathogens. National conference on microbial technology for sustainable development. Dept. of Botany, Gandhigram rural university, Gandhigram, Tamil Nadu. 1-2nd February 2013.
11. **J Ebenezar Immanuel. (Best oral presentation)** Characterization and antagonistic study of *Pseudomonas fluorescens* strains isolated from the foot hill of Sathuragiri hills, western ghats, Tamil Nadu, National conference on recent trends in plant biotechnology. Department of plant science, School of Life Sciences. Bharathidasan University, Tiruchirappalli. Tamil Nadu. 27th -

- 28th 2013.
12. J Ebenezar Immanuel (**Invited Lecture**). Characterization and genetic diversity study of *Pseudomonas fluorescens* strains isolated from the foot hills of Sathuragiri hills Western ghats, Tamil Nadu. Prof. T.S. Sadasivam's Birth Centenary celebration's, National Conference on advances in plant pathology. CAS in Botany University of Madras. Chennai. India 27th - 28th March 2013.
 13. J Ebenezar Immanuel (**Attended**). National conference on new opportunities and challenges in microbial research. Department of Microbiology. Bharathidasan University, Tiruchirappalli. Tamil Nadu 5th -6th September 2013.
 14. J Ebenezar Immanuel & Karthikayen. (**Paper presentation**) Genetic Diversity And Characterization Of *Pseudomonas Fluorescens* Strains Isolated From The Foot Hills Of Sathuragiri Hills (Western Ghats) Tamilnadu. National Conference on Frontier Vistas in Modern Biotechnology Department of Immunology & Microbiology, The American college Madurai 12th December 2013.
 15. J Ebenezar Immanuel. **Participated** in the Refresher Course in Life Sciences organized by the Academic Staff College, Madurai Kamaraj University, Madurai. Tamil Nadu. 07th -27th November 2013.
 16. J Ebenezar Immanuel (**Paper presentation**). Screening of potential *Pseudomonas fluorescens* strains from the foot hills of Sathuragiri hills western ghats Tamil nadu. National conference on recent advances in algology, mycology and plant pathology and Golden jubilee celebrations of Centre for advanced Studies in Botany by UGC. CAS in Botany University of Madras. Chennai. India 19th - 20th February 2014.
 17. J Ebenezar Immanuel (**Paper presentation**). Study on the characterization of secondary metabolites production by *Pseudomonas fluorescens* strains isolated from the foot hills of sathuragiri hills western ghats Tamil Nadu, National conference in recent trends in bioprospecting of plants. Department of plant science, School of Life Sciences. Bharathidasan University, Tiruchirappalli. Tamil Nadu. 28th -29th 2014
 18. J Ebenezar Immanuel. **Participated** in the Faculty Development Program. All India Association of Christian Higher Education, New Delhi. Stella Mary's Training Institute, Kanyakumari. Tamil Nadu. 17th - 19th September 2014.
 19. J Ebenezar Immanuel. **Invited Speaker** "Soil- The hot seat of our Planet" in the World Soil Day, Organized by the Green Club of The American College. Madurai. Tamil Nadu. 5th Dec 2014
 20. J Ebenezar Immanuel. **Participated** in the National Workshop on Plant Proteomics for Teaching faculty, organized by Department of Biotechnology, School of Bioengineering, SRM University, Chennai, Tamil Nadu. 27th - 31st 2015.
 21. J Ebenezar Immanuel. (**Paper presentation**). Extraction of secondary metabolites from bacteria associated with sea weeds. Golden Jubilee National Seminar On Discourses On Past, Present and Future Scenario On Medicinal Plant Conservation In India. PG & Research Department of Botany, Saraswathi Narayanan College, Madurai. Tamil Nadu. 6th & 7th March 2015
 22. J Ebenezar Immanuel. (**Paper presentation**). Extraction of secondary metabolites from bacteria associated with macro algae isolated from Mandapam Tamil Nadu. National Conference on Recent Advances In Industrial Biotechnological Skills Development. PG & Research Department

- of Botany, Thiagarajar College, Madurai. Tamil Nadu. 30th & 31st March 2015.
23. J Ebenezar Immanuel. **(Chaired Session)**. National Conference on Recent Advances In Industrial Biotechnological Skills Development. PG & Research Department of Botany, Thiagarajar College, Madurai. Tamil Nadu. 30th & 31st March 2015.
 24. J Ebenezar Immanuel. **(Participated)**. National Seminar on Geospatial Technology for Resource Evaluation And Environment. School of Earth Atmospheric Sciences, Madurai Kamaraj University. Madurai. Tamil Nadu. 13th & 14th August 2015.
 25. J Ebenezar Immanuel. **(Poster Presentation)**. Isolation of secondary metabolites from sea weeds. “International conference on frontiers in life sciences” Organized by The Department of Botany, St. Joseph’s College, Tiruchirappalli, Tamil Nadu 7th and 8th January 2016.
 26. J Ebenezar Immanuel. **(Poster Presentation)**. *In vitro* Technique for Recovering Plants from Medicinal Ornamental *Bauhinia purpurea* (Linn). “International conference on frontiers in life sciences” Organized by The Department of Botany, St. Joseph’s College, Tiruchirappalli, Tamil Nadu 7th and 8th January 2016.
 27. J Ebenezar Immanuel. **(Oral Presentation)**. International Conference on Microalgal and Cyanobacterial Biotechnology. Organized by National Facility for Marine Cyanobacteria, Department of Marine Biotechnology. Bharathidasan University Tiruchirappalli. Tamil Nadu. 29th to 31st August 2016.

RESEARCH GRANTS

UGC Major Research Project (Completed)

(UGC Reference No. F. 39-420/2010 (SR); 07 JANUARY 2011)

Title: Screening Fluorescent Pseudomonads Strains from the Forest Soil of Grizzled Squirrel Wildlife Sanctuary of Sathuragiri Hills (Western Ghats) for its Genetic Diversity and Production of Agrobioactive Metabolites.