

CURRICULUM VITAE

J. IMMANUEL SURESH

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Objective:

To pursue a challenging career in Teaching / Research in the field of Microbiology.

Experience Profile:

S. No	Institute/ University	Designation	Duration		Length of service in years	Whether UG/PG	Permanent/ Temporary/ Contract/ Consolidated
			From	To			
1.	Ambiga College of Arts & Science, Madurai.	Lecturer	02.08.2000	31.12.2003	3 Years and 5 Months	UG & PG	Consolidated
2.	AVS College of Arts & Science, Salem.	Lecturer	16.07.2006	30.04.2007	9 Months	UG & PG	Consolidated
3.	Dr. Zakir Husain College, Ilayangudi.	Lecturer	13.06.2007	03.10.2010	3 Years and 4 Months	PG	Consolidated
4.	The American College, Madurai.	Lecturer	04.10.2010	Till – Date		PG	Consolidated

Academic Profile:

S. No	Degree	Subject	Institute/ University	Year of passed	Percentage / Class / Grade
1.	Under Graduation	Industrial Microbiology	Thiagarajar College, Madurai. Tamil Nadu	May 1998	I Class
2.	Post- Graduation	Microbiology	Thiagarajar College, Madurai. Tamil Nadu	May 2000	I Class
3.	Master of Philosophy	Microbiology	PRIST University	May 2009	A
4.	Ph. D	Environment and Recycling	Madurai Kamaraj University	Pursuing	

Qualified ASRB - ICAR – NET 2019.

Project Profile:

Doctorate in Philosophy:

Title: Pursuing “Coir pith as a Transplanting Medium for chosen Micro Propagated plantlets”

Master of Philosophy:

Title: “Microbial Diversity in Mangrove Ecosystem of Tamil Nadu (Southern Indian Coast)”

Post-Graduation:

Title: “Effect of Heavy metals (Cu & Hg) on the growth, protein and nucleic acid contents of halophilic *Bacillus megaterium* and *Azospirillum lipoferm*”

Under Graduation:

Title: “Utilization of Agro-Wastes as fermentation substrates for Ethanol and Citrate production”

Title: Project on Entrepreneur Development for Bakery.

Publications:

- Abinayalakshmi.S*, **Immanuel Suresh. J¹** "Mangroves as Future Prospective of Drugs against Parasitic Infections – A Review" Journal of Research in Pharmacognosy and Natural Medicinal Products, 2020. Volume 2 Issue 2 Page 18- 22.
- **Immanuel Suresh J***, Samuel Paul Raj “Coir Pith as an Acclimatizing Medium for Micropropagated *Capsicum sp*” International Journal of Science and Research (IJSR) Volume 8 Issue 12, December 2019, **ISSN: 2319-7064**. DOI: 10.21275/ART20203283.
- **Immanuel Suresh. J**, G. Ramanathan, T. Vinod Kumar and T. Abinaya Pallavi “Evaluation of different substrate on Mushroom production and their bioactive potential” International Research Journal of Pharmaceutical and Applied Sciences, 2013: 3 (5): 10 – 15. **ISSN: 2277-4149**.
- Ramanathan. G, T. Vinod Kumar, M. Safeena and **J. Immanuel Suresh** “Biomethanation of Marine Cyanobacteria and Seaweed biomass for biogas production by co – digestion with Slaughter House Waste” International Journal of Science Innovation and Discoveries, 2013, 3 (1): 126 – 133. **ISSN: 2249-5347**.
- G. Ramanathan, P. Ramalakshmi, B. Gopperundevi and **J. Immanuel Suresh** “Production characterization and aqua feed supplementation of astaxanthin from *Halobacterium salinarium*” International Journal of Science Innovation and Discoveries, Volume 4 Number 3 (2015) pp. 56-63. **ISSN: 2319-7706**.
- G. Ramanathan, Nambu Mahalakshmi, E. Relin Shiny and **J. Immanuel Suresh** “Evaluation of phytotoxic and bioactive potential of paclitaxel from *Fusarium solani*” International

Journal of Current Microbiology and Applied Sciences, Volume 4 Number 3 (2015) pp. 64-74. ISSN: 2319-7706.

- T. Vinodhkumar, M. Subhapiya, G. Ramanathan, **J. Immanuel Suresh** and Kalpana “**Screening of bioactive potential for larvicidal activity of marine actinomycetes**” **International Journal of Current Microbiology and Applied Sciences**, Volume 4 Number 2 (2015) pp. 972 - 980. ISSN: 2319-7706.

Conference Proceedings (Abstract): International

- Annamary. A and **Immanuel Suresh. J** "**Production of Biogas from Kitchen Waste Water**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Abubakkar Siddik. A and **Immanuel Suresh. J** "**Microbial Influence on Generation of Electricity Using Domestic Waste Slush – Microbial Fuel Cells (MCF)**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Divyashree .M and **Immanuel Suresh. J** "**Degradation of Petroleum Hydrocarbons By *Pseudomonas sp* - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Jainab Nisha. I and **Immanuel Suresh. J** "**Production of Economically Important Products from Sugarcane Bagasse (SCB)**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- **Immanuel Suresh J*** and Samuel Paul Raj "**Acclimatizing of Micropropagated *Capsicum Sp* Using Coir Pith**" International Conference on "**Eco- Technological Approaches for**

Sustainable Environment" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.

- Judith. A and **Immanuel Suresh. J** "**Conversion of Solid Waste into Compost by Microorganisms - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Mouline Peliah Stacy* and Immanuel **Suresh J*** "**Role of Microbes in Degrading Digital Waste - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- R. Jose Priyanka and **J. Immanuel Suresh** "**Cultivation of Edible Mushroom Using Agro Waste - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Rakshana. K and **J. Immanuel Suresh** "**Production of Citric Acid from Hydrocarbons - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Venil Venmathi. D and **Immanuel Suresh. J** "**Production of Biogas From Waste Water**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Anusha. B and **Immanuel Suresh. J*** "**Bioremediation of Oil Spills in Ocean - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.

- Bala Dharshini. B*and **Immanuel Suresh. J** "**Utilization of Saw Dust - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Bershika Michael. M and **Immanuel Suresh. J*** "**Production of Mushroom from Agro waste - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Divya Dharshini. R and **Immanuel Suresh J*** "**Degradation of Digital Waste by Microbes - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Edenshiya S and **Immanuel Suresh J** "**Production of Organic Acids from Agro - Waste - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Kaviya Priya. S and **Immanuel Suresh J** "**Reduction of Chromium Hexavalent To Chromium Trivalent By Microbes - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Malliga M and **Immanuel Suresh J** "**Bioelectricity Production From Waste Water - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment**" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Puvaneshwari Kumaresan and **Immanuel Suresh J** "**Biodegradation of Pesticides Using Microorganisms - A Review**" International Conference on "**Eco- Technological Approaches**

for Sustainable Environment" organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.

- Saranya. R and **Immanuel Suresh. J** "**Ethanol Production from Marine Algal Hydrolysates Using *E. coli* KO11**" International Conference on "**Eco- Technological Approaches for Sustainable Environment"** organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Sreeja. R and **Immanuel Suresh. J*** "**Degradation of Coir Pith by Microbes - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment"** organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Vinothini Alice Rebekah and **Immanuel Suresh J** "**Biosorption of Mercury in Water Using Microbes - A Review**" International Conference on "**Eco- Technological Approaches for Sustainable Environment"** organized by the Department of Microbiology, Government Arts College for Women, Salem - 08, Tamil Nadu on 6th March 2020.
- Aarthi G, Kannikaparameshwari K, and **J. Immanuel Suresh** "**Synthesis of pesticides from seaweeds**" **Third International Conference on Recent Trends in Microbiology (RTM - 2019)** Organized by Department of Microbiology, Alagappa University, Karaikudi – 630 003 on January 24 & 25, 2019. **ISBN: 978-93-88398-26-8.**
- Hemalatha S., A. Neshapriya and **J. Immanuel Suresh** "**Seaweed as anti-cancer therapeutic agent**" **Third International Conference on Recent Trends in Microbiology (RTM - 2019)** Organized by Department of Microbiology, Alagappa University, Karaikudi – 630 003 on January 24 & 25, 2019. **ISBN: 978-93-88398-26-8.**
- Heamchandsaravanan A.R., A. Abubakkar Siddik, and **J. Immanuel Suresh** "**Microbial production of bioethanol from Seagrasses**" **Third International Conference on Recent Trends in Microbiology (RTM - 2019)** Organized by Department of Microbiology, Alagappa University, Karaikudi – 630 003 on January 24 & 25, 2019. **ISBN: 978-93-88398-26-8**

- Benasir Roja M., N. Naaga Suriya, and **J. Immanuel Suresh** “**Bio active compounds derived from marine fungus**” **Third International Conference on Recent Trends in Microbiology (RTM - 2019)** Organized by Department of Microbiology, Alagappa University, Karaikudi – 630 003 on January 24 & 25, 2019. **ISBN: 978-93-88398-26-8.**
- Akshaya R.L Sri Janani M.S and **Immanuel Suresh J** “**Anti - Plasmodial activity of Mangroves for the next generation**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.
- Heamchand Ssaravanan. A.R., Abubakkar Siddik. A, and **Immanuel Suresh. J** “**Marine Microalgae A Potential Source for Antimicrobial and Antiviral Agents**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.
- Hari Murali Krishnaa T, Mohamed Nayeem A and **Immanuel Suresh J.** “**Marine Fungi Based Antiviral Drugs – A Review**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.
- Sushmitha. S, A. Nisha Priya and **Immanuel Suresh. J** “**Seaweeds as Future Perspectives - A Review**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.
- Kumaran S, A Mahaboob Sheriff and **J Immanuel Suresh** “**Desert plants – A gift to Mankind – A Review**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of

Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.

- Sivasathya. G, Niraimathi. K and **Immanuel Suresh. J** “**Diatoms as A Therapeutic Agent**” International Conference on “**Frontiers in Ethanopharmacology and Globalization of Natural Medicine**” organize by PG & Research Department of Biochemistry & Department of Microbiology, Bharathidasan College of Arts and Science, Erode – 638 116, Tamil Nadu on August 2018.
- Omar Mukthar, A. B, B. Sumaiya, A. Surendran and **Immanuel Suresh J.** “**Microbial Enumeration of a radish-based Product “Mullo”**” International Conference on “**Recent Advances in Food Processing Technology**” Indian Institute of Food Processing Technology, Ministry of Food Processing Industries, Pudukkottai Road, Thanjavur - 613 005, Tamil Nadu, India.
- Akshaya R. L, T. Thanushiya and **J. Immanuel Suresh*** “**Role of Metagenomic Clones in Environmental Bioremediation - (GMO)**” 2nd International Conference on “**Recent Trends in Microbiology**” (RTM - 2018) organized by the Department of Microbiology, Alagappa University, Karaikudi on 11th and 12th, January 2018. **ISBN: 978-93-87102-50-7.**
- Sri Janani M. S, Sowndharya R and **Immanuel Suresh J** “**Recent Diagnosis and Treatment for Pulmonary Infection Caused by Fungus**” 2nd International Conference on “**Recent Trends in Microbiology**” (RTM - 2018) organized by the Department of Microbiology, Alagappa University, Karaikudi on 11th and 12th, January 2018. **ISBN: 978-93-87102-50-7.**
- Uthayapandi T, Bertlin J Martin and **Immanuel Suresh. J** “**Cervical Cancer – Diagnosis and Preventive Measures**” 2nd International Conference on “**Recent Trends in Microbiology**” (RTM - 2018) organized by the Department of Microbiology, Alagappa University, Karaikudi on 11th and 12th, January 2018. **ISBN: 978-93-87102-50-7.**
- Andrew Pradeep M., J. Krishna Prasad, S. Yadhu, S. Krishnan and **J. Immanuel Suresh** “**Immunosuppressive Effect of Medicinal Plants *Justicia gendarussa* (Burm) and *Cardiospermum halicabum* (Linn) on T-Lymphocytes**” 2nd International Conference on “**Recent**

Trends in Microbiology” (RTM - 2018) organized by the Department of Microbiology, Alagappa University, Karaikudi on 11 and 12, January 2018. **ISBN: 978-93-87102-50-7.**

- **Immanuel Suresh. J, G. Karthick and J. and A Samuel Rajdurai “Traditional foods and their associated health benefits”** International Conference on **“New horizons, Emerging Challenges and Recent Paradigms in Food mediated Immunity and their Role in Human Health and Longevity”** organized by the Department of Immunology and Microbiology & Department of Zoology, The American College, Madurai on 31 August & 01 September, 2016.

Conference Proceedings (Abstract): National

- Judith A and **J. Immanuel Suresh**, **"Silver Nanoparticles and their Anticancer efficacy against Hela Cell Lines Synthesized from *Ulva lactula* (Sea weed)"**, National Conference on **"Innovations in Chemical and Life Sciences Research"**, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020.
- Mouline Peliah Stacy, M. K. Rakshana. K and **J. Immanuel Suresh**, **"Degradation of Plastics Using Marine Microbes"**, National Conference on **"Innovations in Chemical and Life Sciences Research"**, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8.**
- Anusha. B, Janaki Sujitha. K and **Immanuel Suresh. J**, **"In-vitro Anti-Human Immunodeficiency Virus Activity of Mangrove Plant - *Rhizophora apiculata*"**, National Conference on **"Innovations in Chemical and Life Sciences Research"**, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8.**
- Venil Venmathi. D, Jose Priyanka. R and **Immanuel Suresh. J**, **"Anti- HBV Activity from Marine Microbes"**, National Conference on **"Innovations in Chemical and Life Sciences Research"**, organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8.**

- Praveen Kumar. K, K. Vignesh and **J. Immanuel Suresh**, "**Anticancer Activity of *Sargassum oliocystum* Water Extract Against Human Cell Lines Daudi and K562**", National Conference on "**Innovations in Chemical and Life Sciences Research**", organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8**.
- Mishavel Samraj. S, Sujitha Mangalam. S and **Immanuel Suresh. J**, "**Biosynthesis of Silver Nanoparticles from *Avicennia marina* (Mangrove) Therapeutic Applications**", National Conference on "**Innovations in Chemical and Life Sciences Research**", organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8**.
- Divya Dharshini. R, Bershika Micheal and **Immanuel Suresh. J**, "**Extraction of Gold Nanoparticles from *Streptomyces coelicoflavus* (Marine) Against Type II Diabetic Mellitus**", National Conference on "**Innovations in Chemical and Life Sciences Research**", organized by the Department of Biochemistry, Rev. Jacob Memorial Christian College, Ambilikkai - 624 612, Dindigul District, Tamil Nadu on 7th February 2020. **ISBN: 978-93-5396-139-8**.
- Shudarsan V and **J. Immanuel Suresh** "**Impact of Climatic Change - Marine Microbial Ecosystem**" 11th NABS - National Conference on "**Climatic Change Driven Challenges on Indian Biodiversity: Innovative Solutions for Sustainable Development**" organized by Department of Microbiology, School of Life Sciences, Pondicherry University, Puducherry - 605 014 from 25th - 27th September 2019.
- Abitha, R., J. Mubina and **Immanuel Suresh .J** "**Anti -viral Activity of *Ulva lactua* against Japanese Encephalitis virus from Rameswaram Coastal Region**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. **ISBN "978-81-935892-5-0"**.
- Nasreen Fathima. S, Sandhiya. S and **Immanuel Suresh .J** "**Anti-viral activity of Marine Actinomycetes against Influenza A**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V.

Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".

- Muthuarthi S, Ramya Sri R and **Immanuel Suresh .J** "**A detailed Survey on Hepatitis B virus in India**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".
- Janavika Nandhini. S, J. Nithya and **Immanuel Suresh .J** "**Antiviral Property of *Avicenna marina* (Mangrove)**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".
- Prathipa M, Sharmila J and **Immanuel Suresh .J** "**Zika Virus: A Survey and Its Impact**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".
- Iswarya U, Prasanthini S and **Immanuel Suresh .J** "***Rhizophora apiculata* Mangrove Bioactive Compounds against Viral Cell Lines**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".
- Keerthana. S, Ruthragini. S and **Immanuel Suresh. J** "**Marine Sponges and its Antiviral Activity against HSV**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".
- Priyadharshini J, Edenshiya. S and **Immanuel Suresh J** "**A Statistical Survey on HPV caused Cervical Cancer**" National Symposium on "**Emerging Viral Infectious Diseases**" organized by

Departments of Biochemistry, Microbiology and Biotechnology, V.V. Vanniaperumal College for Women, Virudhunagar - 626 001 on 31 July 2019. ISBN "978-81-935892-5-0".

- Lakshmi Devi S, **Immanuel Suresh. J**, Mehreen Tranaz A, Gayathri. B and Deepthi “**Study of chronic diarrhea associated with HIV – Quantitative competitive PCR methods – A Review**” National Conference on “**Frontier Vistas in Modern Biotechnology**” organized by Department of Immunology and Microbiology, The American College, Madurai on 12th December 2013. ISBN: 978-81-928661-0-9.
- Madhumitha. P and **Immanuel Suresh. J** “**Differential control of growth, apoptotic activity and gene expression in Human Breast cancer cells by extracts derived from medicinal herbs *Zingiber officinale***”, National Conference on “**Frontier Vistas in Modern Biotechnology**”, organized by Department of Immunology and Microbiology, The American College, Madurai on 12th December 2013. ISBN: 978-81-928661-0-9.
- Vigneshwaran, Ram Dinesh, Arunachalam, Anantha Kumar and **Immanuel Suresh. J** “**Edible Vaccines and their Challengers**”, National Conference on “**Frontier Vistas in Modern Biotechnology**”, organized by Department of Immunology and Microbiology, The American College, Madurai on 12th December 2013. ISBN: 978-81-928661-0-9.
- Revathy. P and **Immanuel Suresh. J** “**DNA Vaccine: Evolving novel approaches, against cancer - Review**”, National Conference on “**Frontier Vistas in Modern Biotechnology**”, organized by Department of Immunology and Microbiology, The American College, Madurai on 12 December 2013. ISBN: 978-81-928661-0-9.
- Preethi. V and **J. Immanuel Suresh**, “**Nanoparticles – Diagnosis and Treatment of Breast Cancer**” 10th NABS National Conference on “**Life Science: Research, Practices and Application for Sustainable Development**” organized by the Department of Botany and Zoology, Bharathiar University, Coimbatore on 7 and 8 October 2017, Macmillan Publishers India Private Ltd, pp 809. ISBN: 978 – 93870 – 0007 – 0.

Conference Proceedings:

- Arshiya Khan and **J. Immanuel Suresh**, “**Antimicrobial efficacy of Silver nanoparticles synthesized from Marine Actinomycetes – *Streptomyces spp***”, 10th NABS National Conference on “**Life Science: Research, Practices and Application for Sustainable Development**” organized by the Department of Botany and Zoology, Bharathiar University, Coimbatore on 7 and 8 October 2017, Macmillan Publishers India Private Ltd, pp 24 – 28. **ISBN: 978 – 93870 – 0007 – 0**.
- Kandanila N, **J. Immanuel Suresh** and K. Satheesh Kumar “**Biosynthesis of Silver Nanoparticles from Marine Actinomycetes and their efficacy against bacterial isolates from the pus of Diabetic Foot Ulcer**” 10th NABS National Conference on “**Life Science: Research, Practices and Application for Sustainable Development**” organized by the Department of Botany and Zoology, Bharathiar University, Coimbatore on 7th and 8th October 2017, Macmillan Publishers India Private Ltd, pp. 277 – 280. **ISBN: 978 – 93870 – 0007 – 0**.

Conference Proceedings Poster:

- Keerthana G and **Immanuel Suresh J** “**Probiotic Microbes Induce Activation of Gut Immune System**” **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.
- Sabarinathan. G and **Immanuel Suresh J** “**Production of Biofuel from Seagrass**” **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.
- Kirthicka. A and **Immanuel Suresh. J*** **Antibacterial and Anti-cancer activity of Seaweed *Padina pavonica*** **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.

- Backiya Lakshmi. B and **Immanuel Suresh. J** “**Traditional and Medicinal Uses of Mangroves**” **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.
- Mishavel Samraj. S, Abish Kumar. P and **Immanuel Suresh. J*** “**Bioplastic Production –Polyhydroxy-alkanoate (PHA)**” **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.
- Rajeswaran. S. R Chandhru. M and **Immanuel Suresh. J** “**Antimicrobial Activity of Seagrass**” **Two Days National Seminar on “Social Relationship between Microbes, Human and Environment” (SRMHE-2019)** 18th -19th July, 2019 Organized by Department of Biotechnology Sri Kaliswari College, Sivakasi – 626 130.
- **Immanuel Suresh. J** and S. Mani Mozhi “**Antimicrobial efficacy of Silver Nanoparticles Synthesized from Marine Streptomyces against UTI pathogens**” National Symposium on “**New Dimensions in Microbiome Research**” organized by PG and Research Department of Microbiology, J.J. College of Arts and Science, Pudukkottai – 622 422, Tamil Nadu on 27 & 28 September 2018.
- Initha. I, Tharani. K and **Immanuel Suresh. J**, “**Biodegradation of Oil Using Fungus**” National conference on “**Advanced Bio Chem Development – 2018**” organized by the Department of Biochemistry, Sri Sarada Niketan College for Women, Karaikudi on 18 & 19 September 2018.
- Poornima. R, Maheswari. V and **Immanuel Suresh. J**, “**Anti-plasmodial Activity of Seaweeds**” National conference on **Advanced Bio Chem Development – 2018**” organized by the Department of Biochemistry, Sri Sarada Niketan College for women, Karaikudi on 18 & 19 September 2018.
- Vasanth Kumar. S, Benasir Roja. M and **Immanuel Suresh. J**, “**Bioactive Compounds from *Acanthella elongate* (Sponge) as Antifouling Agent**” National conference on “**Advanced Bio Chem Development – 2018**” organized by the Department of Biochemistry, Sri Sarada Niketan College for Women, Karaikudi on 18 & 19 September 2018.

- Kumersan. T. N, Praveen. N. M and **Immanuel Suresh. J**, “**Antibacterial Efficacy of *Avicenna marina* Extract Against Bacterial Pathogen (Mastitis)**” National conference on “**Advanced Bio Chem Development – 2018**” organized by the Department of Biochemistry, Sri Sarada Niketan College for Women, Karaikudi on 18 & 19 September 2018.
- Malliga. M, Suriya Kala. A and **Immanuel Suresh. J**, “**Drugs from *Talamyces flavus* (Mangrove endophytic fungi) against Cervical Cancer**” National conference on “**Advanced Bio Chem Development – 2018**” organized by the Department of Biochemistry, Sri Sarada Niketan College for Women, Karaikudi on 18 & 19 September 2018.
- Akshaya R. L, T. Thanushiya and **J. Immanuel Suresh** “**Role of Silver Nanoparticles in treating Cancer**” National Seminar on “**Modern Enhancement in Life Science**” organized by Department of Microbiology, Syed Hameedha Arts and Science College, Kilakarai – 623 806, Ramanathapuram District on 16 March 2018.
- Sri Janani M.S, R. Sowndharya and **J. Immanuel Suresh** “**Applications of Magnetosomes synthesized by Magnetotactic bacteria in the field of Medicine – A Review**” National Seminar on “**Modern Enhancement in Life Science**” organized by Department of Microbiology, Syed Hameedha Arts and Science College, Kilakarai – 623 806, Ramanathapuram District on 16 March 2018.
- Hari Murali Krishnaa T and **J. Immanuel Suresh** “**Microbiome and Human Health – A Review**” National Seminar on “**Modern Enhancement in Life Science**”, organized by Department of Microbiology, Syed Hameedha Arts and Science College, Kilakarai – 623 806, Ramanathapuram District on 16 March 2018.
- Heam Chand Saravanan A.R., Abubakkar Siddik. A, and **Immanuel Suresh. J** “***Ideonella sakaiensis*: Newly - Discovered Bacterium can break Down, Metabolize Plastic**” – A Review National Conference on “**Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications**” (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.

- Akshaya RL, Thanushiya T, Immanuel Suresh J **“Degradation of synthetic polymer Nylon 6 and Nylon 6, 6 by microbes – A Review”** National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.
- Sri Janani M. S, Sowndharya R, Immanuel Suresh J **“Bio-reduction of Uranium: Stimulating the In Situ Activity of Geobacter species to Remove Uranium from environment– A Review”** National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.
- Hemalatha, Kanniga Parameeswari and Immanuel Suresh J **“Drinking Water Purification using Bacterial Consortium”** National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.
- Santhosh Kumar. M, Immanuel Suresh. J **“Microbial whole cell – a sensing resource tool for ecological pollution for imminent generation: Review”** National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.
- Malini. G, Soniya. K and Immanuel Suresh J **“Nanotechnology: A tool for mankind in future agricultural sustainability”** National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications”** (EBAC 2018) on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.

- Sri Janani M.S, R. Sowndharya and **J. Immanuel Suresh** “**Cervical Cancer in Women population and control**” National Seminar on “**Cancer Immunology and Immunotherapy**”, organized by the Department of Zoology, Saiva Bhanu Kshatriya College, Arupukottai, Tamil Nadu of 21 and 22 September 2017.
- Akshaya R. L, T. Thanushiya and **J. Immanuel Suresh** “**Colon Cancer: Left VS Right Colon and control**” National Seminar on “**Cancer Immunology and Immunotherapy**”, organized by the Department of Zoology, Saiva Bhanu Kshatriya College, Arupukottai, Tamil Nadu of 21 and 22 September 2017.
- Harini.V, **J. Immanuel Suresh** “**Biosynthesized Nanoparticles as fouling agents - a Review**” National Seminar on “**Recent Trends in Biological Sciences**” Department of Biochemistry and Microbiology, Sourashtra College, Madurai – 09 on 22 September 2017,
- Rajabudeen. E, M. Uthira Selvam, **J. Immanuel Suresh**, B. Sivarani, A. Saravana Ganthi and K. Natrajan “**Phytochemical Screening and Antibacterial Activity of *Tephaosia spinosa* (L.F) Pres**” National Conference on “**Bio-prospecting and Ethopharmacy of Bio resources**”, Department of Biology, Dr. Zakir Husain College, Ilayangudi, Sivaganagai District, March 30 – 31, 2009.
- Rajkumar K, G. R. Vijayaraman, J. Arockia Maria Nayagam, **J. Immanuel Suresh**, M. Uthira Selvam and E. Rajabudeen “**Microbial Diversity and Marine Ecological Importance – Future Perspectives**” State Level Seminar on “**Conservation and Utilization of Bio Resources for Rural Development**”, Department of Biology, Dr. Zakir Husain College, Ilayangudi, Sivaganagai District from Dec 29 – 30, 2008.
- Sangeetha. R. P. K. Kirija, S. M. S. Syed Kaja Sumsudeen, M. Karthigairajan, **J. Immanuel Suresh**, M. Uthira Selvam and E. Rajabudeen “**Plant Growth and Soil Health Supporting Bacteria**” State Level Seminar on “**Conservation and Utilization of Bio Resources for Rural Development**”, Department of Biology, Dr. Zakir Husain College, Ilayangudi, Sivaganagai District from Dec 29 – 30, 2008.

Full text Proceedings in UGC sponsored National Seminar ISBN No: 978-81-907647-3-5.

- G. Ramanathan, R. Nambu Mahalakshmi and **J. Immanuel Suresh** “**Studies on Epibiotic marine bacteria for their efficacy to produce bacteriocin like metabolites**”, National Seminar on Emerging Trends in Microbiology, Organized by the Department of Zoology, Rani Anna Government College for Women, Tirunelveli, 19th and 20th February 2015.
- G. Ramanathan, R. Rama and **J. Immanuel Suresh** “**Assessment of the production of bioactive compounds from marine microalgae**” National Seminar on Emerging Trends in Microbiology, organized by the Department of Zoology, Rani Anna Government College for Women, Tirunelveli, 19th and 20th February 2015.
- G. Ramanathan, P. Ramalakshmi and **J. Immanuel Suresh** “**Studies on the response of Marine cyanobacteria composted coir pith as biofertilizers on growth characteristics of *Jatropha curcas***” National Seminar on Emerging Trends in Microbiology, organized by the Department of Zoology, Rani Anna Government College for Women, Tirunelveli, 19th and 20th February 2015.

Awards / Recognitions:

- “**BEST YOUNG FACULTY AWARD - 2019**” from Novel Research Academy, Puducherry.
- “**NAYAGAN EDUCATIONIST AWARD**” from Rotary Club of Tiruchirappalli Diamond City (CLUB NO: 3077).
- “**BEST YOUNG FACULTY AWARD**” from Rotary Club of Trichy Dc Pride.

Book Chapters:

- CHAPTER 19:THE WORLD OF NANOBIOSTIMULANTS IMPACTING THE ENVIRONMENT
Authors: S Abinayalakshmi, J Immanuel Suresh
Book: Nanobiostimulants: Emerging Strategies for Agricultural Sustainability
Pages: 437 - 456
Publisher: Springer Nature
Print ISBN: 978-3-031-68137-0, Online ISBN: 978-3-031-68138-7
https://doi.org/10.1007/978-3-031-68138-7_19

- CHAPTER 07: SEAWEEDS ARE POTENTIAL SOURCE FOR PRODUCTION OF SUSTAINABLE BIOETHANOL FOR THE IMMINENT FUTURE

Authors: J Immanuel Suresh, S Divyeswari

Book: Multidisciplinary Applications of Marine Resources: A Step towards Green and Sustainable Future

Publication date: 2024/8/28

Pages: 141-160

Publisher: Springer Nature Singapore

Print ISBN978-981-97-5056-6, Online ISBN978-981-97-5057-3

DOI: https://doi.org/10.1007/978-981-97-5057-3_7

- CHAPTER 06: COMPARISON BETWEEN TRADITIONAL AND NANOREMEDIATION TECHNOLOGY WITH A SPECIAL REFERENCE TO SOIL AND HEAVY METAL CONTAMINATION

Authors: J Immanuel Suresh, A Judith

Publication date: 2024

Book: Nano-phytoremediation and Environmental Pollution

Pages: 97-109

Publisher: CRC Press

EBook ISBN9781003186298

<https://doi.org/10.1201/9781003186298>

- CHAPTER 09: SEAWEED: A POTENTIAL RESOURCE FOR THE DEVELOPMENT OF NOVEL MULTIGENERATIONAL MEDICINAL PRODUCTS

Authors J Immanuel Suresh, MS Sri Janani

Publication date: 2023

Book: Exploring Complementary and Alternative Medicinal Products in Disease Therapy

Pages: 211-224

Publisher: IGI Global

ISBN13: 9781799841203|ISBN10: 1799841200|EISBN13: 9781799841210

DOI: 10.4018/978-1-7998-4120-3.ch009

- CHAPTER 20: GENETICALLY ENGINEERED MARINE MICROBES FOR THE PRODUCTION OF BIOETHANOL

Authors: Suresh J Immanuel, P Yogesh, Pradeep M Andrew, Snega Ramanathan

Publication date: 2024/1/1

Book: Microbial Biotechnology for Bioenergy

Pages: 419-428

Publisher: Elsevier

ISBN: 978-0-443-14112-6

<https://doi.org/10.1016/B978-0-443-14112-6.00020-1>

- CHAPTER 02: STRATEGIC METHODS OF NANOREMEDIATION THROUGH NANOMATERIALS SYNTHESIZED FROM MICROBES: AN OVERVIEW

Authors: Immanuel Suresh J, M. Andrew Pradeep and P. Yogesh

Book Title: Green Nanoremediation: Sustainable Management of Environmental Pollution

Publication Year: 2023

Pages: 67 – 81

ISBN: 978-3-031-30557-3

<https://doi.org/10.1007/978-3-031-30558-0>

- CHAPTER 06: NANOPARTICLES: PLANT PROTECTIVE AGENTS AGAINST PATHOGENIC MICROBES AND PESTS

Authors: Suresh J. Immanuel, Lakshimi V. Iswareya

Publication Year: 2023

Book: Nanotechnology for Sustainable Agriculture - An Innovative and Eco-Friendly Approach

Pages: 34

ISBN: 9781003333128

<https://doi.org/10.1201/9781003333128>

- CHAPTER 04: MICROBIAL ASSISTED SYNTHESIS OF NANOPHOTOCATALYSTS FOR DARK FERMENTATIVE HYDROGEN GENERATION

Authors: Shanthipriya Ajmera, Souvik Roy, M. Noorjahan, **J. Immanuel Suresh**, Debashree Borthakur

Publication Date: March 2023

Book: NanoBioenergy: Application and Sustainability Assessment

Pages 79-107

Publisher Name; Springer, Singapore

Print ISBN; 978-981-19-6233-2

https://doi.org/10.1007/978-981-19-6234-9_4

- CHAPTER 21: THE HUMAN MICROBIOME: AN IMMINENT THERAPY FOR MANKIND–A REVIEW

Authors: **Immanuel Suresh**, Iswareya Lakshimi, Abinaya Lakshmi

Publication date: 2022/9/26

Source: Microbial Biotechnology: Role In Ecological Sustainability And Research

Pages: 399-419

Publisher: John Wiley & Sons, Inc.

Print ISBN: 9781119834458 |Online ISBN: 9781119834489

<https://doi.org/10.1002/9781119834489.ch21>

- CHAPTER 05: MOLECULAR TOOLS-A FUTURE PERSPECTIVE APPROACH FOR MONITORING LANDFILL LEACHATES AND VALIDATING BIOREMEDIATION PROCESS

Authors: **J Immanuel Suresh**, Sri Janani

Publication date: 2022

Book: Circular Economy In Municipal Solid Waste Landfilling: Biomining & Leachate Treatment

Pages: 95-113

Publisher: Springer, Cham

ISBN: 978-3-031-07785-2

DOI: 10.1007/978-3-031-07785-2-5

- CHAPTER 19: METAGENOMIC ANALYSIS OF FRESHWATER BACTERIAL AND VIRAL BIODIVERSITY USING SHOTGUN SEQUENCING

Authors: **Immanuel Suresh Jayasingh**

Publication date: 2022

Book: Handbook Of Research On Water Sciences And Society

Pages: 443-455

Publisher: IGI Global

ISBN13: 9781799873563

DOI: 10.4018/978-1-7998-7356-3.ch019

- CHAPTER 06 : BACTERIAL DISEASES IN FISH WITH RELATION TO POLLUTION AND THEIR CONSEQUENCES—A GLOBAL SCENARIO

Authors: **J Immanuel Suresh**, MS Sri Janani, R Sowndharya

Publication date: 2022/1/1

Book: Bacterial Fish Diseases

Pages: 113-131

Publisher: Academic Press

ISBN: 978-0-323-85624-9

DOI: 10.1016/B978-0-323-85624-9.00022-1

- CHAPTER 16: MARINE FUNGAL METABOLITES: SOURCE OF NEXT GENERATION ANTIBIOTICS FOR HUMAN MICROBIAL PATHOGEN

Series Title: Mycology: Current and Future Developments

Authors: Abinayalakshmi S **Immanuel Suresh. J***

Publication date: 2022

Book: Sustainable Utilization Of Fungi In Agriculture And Industry

Volume: 4

Pages: 287-299

Publisher: Bentham Books

ISBN: 978-981-5040-34-0

DOI: 10.2174/9789815040340122040020

- CHAPTER 10: MARINE FUNGAL METABOLITES: A FUTURE THERAPEUTIC DRUG AGAINST BREAST AND CERVICAL CANCER—ALTERNATIVE MEDICINE

Authors: **J Immanuel Suresh**

Publication Date: 2022

Book: Handbook Of Research On Natural Products And Their Bioactive Compounds As Cancer
Therapeutics

Pages: 214-231

Publisher: IGI Global

ISBN13: 9781799892588

DOI: 10.4018/978-1-7998-9258-8.ch010

- CHAPTER 16: NANOTECHNOLOGY: AN EMERGING AND PROMISING TECHNOLOGY FOR THE WELFARE OF HUMAN HEALTH

Authors: **Immanuel J. Suresh** and M.S. Sri Janani

Publisher: CRC Press, Taylor & Francis Group. (2022), pp 301 - 314.

Book Title: Nanotechnology - Device Design And Applications

ISBN: 978-1003-22035-0

DOI: 10.1201/9781003220350-16

- CHAPTER 2: VERMICOMPOST: ENRICHING SOIL FERTILITY BY INVITING THE BENEFICIAL MICROBIAL COMMUNITY

Book Title: Earthworm Engineering And Applications

Immanuel J. Suresh and Iswareya V. Lakshimi

Publisher: Nova Science Publishers, New York (2022), pp 17 - 34.

ISBN: 978-1-68507-566-8

DOI: <https://doi.org/10.52305/VLNM4957>

- CHAPTER 4: BIOSYNTHESED TITANIUM DIOXIDE NANOPARTICLES AND THEIR ANTIBACTERIAL EFFICACY

Book Title: Titanium Dioxide: Advances In Research And Applications

Immanuel J. Suresh, Iswareya V. Lakshimi and Shanthipriya Ajmera

Publisher: Nova Science Publishers, New York (2021), pp 73 - 102.

ISBN: 978-1-68507-457-9

DOI: <https://doi.org/10.52305/SUWN8331>

- CHAPTER 15: HAZARDOUS AND SAFETY AND MANAGEMENT OF NANOMATERIALS FOR THE PERSONAL HEALTH AND ENVIRONMENT - TOOLS, METHODS, AND APPROACHES FOR DETECTION AND REMEDIATION

Authors: **J Immanuel Suresh**, A Judith

Publication date: 2023

Book: Nanotechnology for Environmental Pollution Decontamination

Pages: 487-494

Publisher; Apple Academic Press

ISBN: 9781003279563

<https://doi.org/10.1201/9781003279563>

- CHAPTER: MARINE ENDOPHYTIC FUNGI ISOLATED FROM GULF OF MANNAR—A SOURCE FOR NEW GENERATION OF PHARMACEUTICAL DRUGS AND BIOSYNTHESIS OF SILVER NANOPARTICLES AND ITS ANTIBACTERIAL EFFICACY.

Book Title: Fungi Bio-Prospects In Sustainable Agriculture Environment And Nano-Technology

Volume 3: Fungal metabolites and Nano-technology

J. Immanuel Suresh, N Jeny Lydia, U Atchayadana, and J Mubina

Publisher: Academic Press is an imprint of Elsevier 125 London Wall, London EC2Y 5AS,
United Kingdom (2020)

pp 175 - 185.

ISBN: 978-0-12-821734-4

DOI: 10.1016/B978-0-12-821734-4.00004-6.

- CHAPTER: PHARMACEUTICAL APPLICATIONS OF MARINE DERIVED FUNGI ISOLATED FROM GULF OF MANNAR

Book Title: Fungi Bio-Prospects In Sustainable Agriculture Environment And Nano-Technology

Volume 2: Extremophilic Fungi and Myco-mediated Environmental Management

Pp: 69 - 74

J. Immanuel Suresh and A. Judith

Publisher: Academic Press is an imprint of Elsevier 125 London Wall, London EC2Y 5AS,
United Kingdom (2020).

ISBN: 978-0-12-821925-6

[https://doi.org/10.1016/B978-0-12-821925-6.00004-6.](https://doi.org/10.1016/B978-0-12-821925-6.00004-6)

- CHAPTER: FUNGAL ENDOPHYTES, BIODIVERSITY AND BIOPOTENTIAL APPLICATIONS

Book Title: Fungi Bio-Prospects In Sustainable Agriculture, Environment And Nano-Technology

Volume 1: Fungal Diversity of Sustainable Agriculture

J. Immanuel Suresh and N.M. Sona

Publisher: Academic Press is an imprint of Elsevier 125 London Wall, London EC2Y 5AS,

United Kingdom (2020) pp 107 - 116

ISBN: 978-0-12-821394-0.

<https://doi.org/10.1016/B978-0-12-821394-0.00005-6>.

- CHAPTER: “PLANTS AS IMMUNOSTIMULANTS IN FISH”

Book title: “Zebrafish - A Model Organism For Regeneration Studies”

Authors: **Immanuel Suresh J** and J. Stella Mary

Publishers: Darshan Publishers, Tamil Nadu, India (2016) pp 123 – 140.

ISBN: 978-81-932645-3-9.

Reviewer in Journals:

- Advances in Science, Technology and Engineering Systems Journal (ASTESJ) - ISSN: 2415-6698.
- Science Publication Journals.
- International Journal of Creative Research Thoughts - IJCRT ISSN: 2320-2882.
- Journal of Applied Biology & Biotechnology

Editor in Journals:

- Microbioz Journals – Journal of Microbiology and Biomedical Research, ISSN: 2395 – 5678.
- Mantech Publications Journals.

Consultant - Microbiologist:

- Bright PCR Lab - Samayan Aqua Farm, Ariyankundu Village, Thangachimadam- 623 529, Rameswaram District.

Paper Presentations at Seminars/ Symposium/ Conference:

- **Immanuel Suresh. J, Revathy P and Kumerasan “Immunostimulatory effect of *Sargassum whitti* extracts on *Cyprinus carpio* (Fish)”** National Seminar on “**Marine Resources**”, organized by M.D.T. Hindu College, Tirunelveli on 3 & 4th March 2016, 150-153. **ISBN: 978-81-931973-9-4.**
- **Immanuel Suresh. J “Nano Science in Plant Disease Control”** at UGC Sponsored National Seminar on “**Application of Nanotechnology in Current Agricultural Practices**” conducted by the Department of Biology, Dr. Zakir Husain College, Ilayangudi, Sivaganagai District, Tamil Nadu on Feb 09 and 10, 2011.
- **Immanuel Suresh. J, M. Uthiraselvam and E. Rajabudeen “Screening of Marine Bacterial Isolates producing Glucoamylase by Submerged Fermentation”** at Second National Conference on “**Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery**” organized by School of Marine Sciences, Department of Oceanography and Coastal Area Studies, Alagappa University, Thondi Campus, Thondi, Ramanathapuram Districts from 25 – 27 Aug 2010.

As a Chair Person:

- **National Seminar on “Marine Resources**”, organized by M.D.T. Hindu College, Tirunelveli on 3 & 4 March 2016, 150-153. **ISBN: 978-81-931973-9-4.**
- **State Level Students’ Seminar on “Microbiome”** at Thiagarajar College, Madurai on 05th October 2017.
- **National Seminar on “Modern Enhancement in Life Science**”, organized by Department of Microbiology, Syed Hameedha Arts and Science College, Kilakarai – 623 806, Ramanathapuram District on 16 March 2018.
- **Two days National Seminar on "Social Relationship between Microbes, Human and Environment"**, organized by Department of Biotechnology Sri Kaliswari College, Sivakasi - 626 130, on 18 and 19 July 2019.

Grants Received:

S. No	Funding agency	Scheme & Year	Title	Amount sanctioned	Organization
1.	Tamil Nadu State Council for Science and Technology (TNSCST)	Student Project Scheme – 2010	“Bioremediation of Oil Petroleum Hydrocarbon in Sea Water using Bacterial Consortium”.	Rs. 6,000/-	Dr. Zakir Hussain College, Illayangudi, Sivagangai District.
2.	Tamil Nadu State Council for Science and Technology (TNSCST)	Student Project Scheme – 2009	“Bio Hydrogen Production from Bacterial Biofilm Consortia Sourced from Wastewater Sledges”.	Rs. 10,000/-	Dr. Zakir Hussain College, Illayangudi, Sivagangai District.

Organizing member:

- National Conference on **“Impacts of Pollution on Health and Restoration of Quality Environment through Biotechnology Applications” (EBAC 2018)** on 02 & 03 February 2018, Postgraduate & Research Department of Zoology & Department of Immunology & Microbiology, The American College, Madurai.
- International Conference on **“New Horizons, Emerging Challenges and Recent Paradigms in Food mediated Immunity and their Role in Human Health and Longevity”** Organized by the Department of Immunology and Microbiology & Department of Zoology, The American College, Madurai on 31st August - 1 September, 2016.

- National Conference on “**Community Microbial Consortia and the Human Holobiont - Implications of Yet - unculturable Microorganisms in Systemic Health, Disease & Personalized Medicine**” Organized by the Department of Immunology and Microbiology, The American College, Madurai on 7 - 8 December, 2015.
- National Conference on “**Frontier Vistas in Modern Biotechnology**” organized by the Department of Immunology and Microbiology, The American College, Madurai on 12 December 2013.
- State Level Seminar on “**Conservation and Utilization of Bio Resources for Rural Development**” conducted by the Department of Biology, Dr. Zakir Husain College, Ilayangudi, Sivaganagai Dist from Dec 29 – 30, 2008.

GENBANK Submission: NCBI (National Centre for Biotechnology Information)

Culture Database:

- LOCUS KX673166 1519 bp DNA linear BCT 14-AUG-2016
DEFINITION *Streptomyces* sp. strain acjis 16S ribosomal RNA gene, partial sequence.
ACCESSION KX673166
AUTHORS **Suresh, I. J.** and Kumar, S. K.
- LOCUS KY942141 815 bp DNA linear BCT 29-MAY-2017
DEFINITION *Streptomyces albus* strain IMS1 16S ribosomal RNA gene, partial sequence.
ACCESSION KY942141
AUTHORS: Aadhithiya, T.G.R., Alexander, K., Arivu Velamuthan, P. S., Karthick Raja, M., Malarvizhi, S., Manimozhi, S., Arshiya Khan, N.R., Sugantha Krishna Raja, J. & **Immanuel Suresh, J**
- LOCUS MH793567 1371 bp DNA linear BCT 01-SEP-2018
DEFINITION *Escherichia coli* strain ISM01 16S ribosomal RNA gene, partial sequence.
ACCESSION MH793567
ORGANISM *Escherichia coli*
AUTHORS Arunachalam, S. and **Immanuel, S.**

- LOCUS MH793559 1326 bp DNA linear BCT 01-SEP-2018
DEFINITION *Pseudomonas aeruginosa* strain IGK01 16S ribosomal RNA gene, partial sequence.
ACCESSION MH793559
ORGANISM *Pseudomonas aeruginosa*
AUTHORS Karthick, G. and **Immanuel, S**

Member Board of Studies:

- **M.Sc. Microbiology**, Alagappa University, Karaikudi, Sivagangai District during 2008 – 2009.
- **B.Sc., Microbiology**, Yadava College, Madurai – 625 014 on 9th April 2018.
- **B.Sc., Food Science and Nutrition**, The American College, Madurai.
- **DMLT**, American College – Community College, Madurai – 625 002.

Project Guidance:

S. NO	TITLE	STUDENT NAME	YEAR
1.	Studies on the Response of Pulses to <i>Pseudomonas fluorescens</i> and <i>Trichoderma harzianum</i> Inoculation	K. Georeg	2001
2.	Project on Isolation, Characterization and Chemotherapeutic Study of Bacteria Present in Body Fluids.	S. Subathra (A0602915)	2002
3.	Microbial Analysis of Bacterial Isolates from Patients Diagnosed with Otitis Media	R. Pandiselvi (A0602907)	2002
4.	Screening of Bacteria from Respiratory Tract Infection and Its Sensitivity Pattern to Antibiotics Using Sputum Sample and Bronchial Wash	P. Yamuna Devi (A0602917)	2002
5.	Screening of the Causative Agents of Post	S. Sathiya Priya	2002

	– Operative Wound Infections and Its Antibiogram	(A0602911)	
6.	Comparative Study of Phenol Degrading Capacity of the Bacterial Isolates from the Coir-pith Retting Industry	M. Vijayalakshmi (A1602808)	2003
7.	Microbial Flora of Growing Medium of Root Trainer Seedlings of Teak, <i>Eucalypts</i> and <i>Albizia</i>	M. Sivagami (A1602805)	2003
8.	Isolation of Bacterial Cultures from the Suspected Malaria Patients Blood	S.M.S. Syed Kaja Samsudeen (0607319006)	2008
9.	Effect of Bacterial Biofertilizer on The Growth of Economical Important Plants	K. Rekha (0606319007)	2008
10.	Comparative Study of Degradation of Phenol by <i>Bacillus sp.</i> and <i>Pseudomonas sp.</i>	K. Parameswari (0606319005)	2008
11.	Effect of Marine Algal Extracts Against Human Pathogens	S. Jayavadvu (0606319003)	2008
12.	Production of Biosurfactant – Rhamnolipid by Bacteria Isolated from Oil Contaminated Soil	R. Sangeetha (0607319003)	2009
13.	The Antimicrobial Effects of Marine Algal Extracts Collected from Gulf of Mannar – A Review	R. Krishnaveni (09 MIM 10)	2011
14.	A Survey on The Antimicrobial Activities of Products from Mangrove Plants of Tamil Nadu (Southern India Coast)	G. Janani (09 MIM 04)	2011
15.	Effects of Antibacterial and Immunostimulatory Activity of <i>Sargassum whitti</i> and <i>Ulva lactuca</i> (Sea Weed) Extracts on <i>Cyprinus carpio</i> (Fish)	P. Revathy (12 MIM 05)	2012
16.	Anti-Cancer and Antimicrobial activity of Silver Nanoparticles Synthesized from	R. Pradeepa (15 MIM 02)	2015

	The Sea Weed – <i>Ulva lactuca</i>		
17.	Synthesis of Silver Nano Particles from Marine Bacterial Isolate and Their Antibacterial Activity Against Diabetic Foot Ulcer Bacterial Pathogens	K. Satheesh Kumar (14 MIM 07)	2016
18.	Antimicrobial Efficacy of Exopolysaccharide Obtained from Halophylic <i>Escherichia coli</i> Isolated Mangrove Rhizosphere Against Mastitis Infection	S. Arunachalam (16 MIM 02)	2016
19.	Antibacterial Efficacy of Leaf Extracts of <i>Avicennia marina</i> and <i>Rhizophora apiculata</i> Against Tooth Decay Infection	G. Karthick (16 MIM 08)	2018
20.	Antibacterial Efficacy of Leaf Extracts of <i>Avicennia marina</i> and <i>Rhizophora apiculata</i> Against Bacterial Human Pathogens	S. Lalithambika (16 MIM 11)	2018
21.	Studies on Different Methods for Detecting Water & Chemical Adulteration in Milk	S. Malarkodi (16 PFS 02)	2018
22.	Antibacterial and antioxidant property of Seagrass <i>Halodule uninervis</i> against clinical isolates from Veterinary samples	G. Sabarinathan (18 MIM 26)	2020
23.	Anticancer activity of <i>Padina pavonica</i> extracts	Priyanka (18 MIM 23)	2020
24.	Antimicrobial activity of <i>Syringodium isoetifolium</i> extracts	S. Pragadeeswaran (18 MIM 21)	2020
25.	Synthesis of Silver Nanoparticles and its antimicrobial efficacy of <i>Padina pavonica</i>	Akshya Evangaline (18 MIM 02)	2020
26.	Antimicrobial, Larvicidal and Ovicidal Efficacy of Silver Nanoparticles Synthesized From <i>Andrographis Paniculata</i> (Nila Vembu)	Priyadharshini P (19 MIM 24)	2021

27.	Antimicrobial Activity of synthesized Iron Oxide and Silver Nanoparticles from the Brown Seaweed <i>Sargassum cinereum</i> and Its Larvicidal and Ovicidal Activity	Kumaran S (19 MIM 13)	2021
28.	Antimicrobial, larvicidal and ovicidal efficacy of silver nanoparticles synthesis from <i>Andrographs paniculata</i>	P Priya Dharshini (19 MIM 24)	2021
29.	Biosynthesis and characterization of silver extracts of <i>Graciloma crassa</i> and determination of its anti-bacterial and larvicidal activity	Judith A (19 MIM 09)	2021
30.	Biosynthesis And Characterization Of Silver, Iron And Zinc - Oxide Nano Particals From The Extract of <i>Eicchornia Crassipes</i> (Water Weed) And Determination Of Its Anti- Bacterial , Anti-Oxidant & Larvicidal Activity	K.AKSHADHA (20MIM04)	2022
31.	Antimicrobial Activity Of Synthesized Zinc, Copper, Iron oxide & Silver Nanoparticles From The Sea grass <i>Cymodocea serrulata</i> & Its Larvicidal	T.S.ROSHNI (20MIM31)	2022
32.	Biosynthesis And Charaterization Of Silver & Iron Oxide Nanoparticels From The Extracts Of <i>Gelidiella acerosa</i> (Seaweed) And Determination Of Its Anti - Bacterial & Larvicidal Activity	M.ARUN KUMAR (20MIM09)	2022
33.	Mangrove - A Promising Resource For Mankind - A Review	K.SWATHY (20MIM42)	2022
34.	Anti-oxidant, Anti-bacterial, Larvicidal and Anti-cancer activity of extracts of <i>Gracilaria edulis</i> .	P. Kalanithi Kalaiivani 21MIM15	2023
35.	Anti-cancer and haemolytic activity of aqueous extracts of seaweed <i>Padina</i>	Mishavel Sam Raj (21MIM20)	2023

	<i>gymnospora</i> : Synthesis of Silver nanoparticles and its antimicrobial activity against various pathogens.		
36.	Anti-inflammatory and Anti-diabetic activity of Aqueous extracts of Seaweed <i>Gelidiella acerosa</i> synthesis of silver nanoparticles and its antimicrobial activity against the human, veterinary and plant pathogens	R. Snega (21MIM44)	2023
37.	Anti-inflammatory and Anti-dibetic activity of aqueous extract of <i>Gracilaria edulis</i> : Synthesis of silver nanoparticles and its anti-bacterial activity.	R. Shreeja (21MIM45)	2023
38.	In-vitro study on antioxidant, Anti-bacterial, Larvicidal and Anti-cancer activity of extracts of seaweed <i>Gelidiella acerosa</i> .	M. Thanga Dharshini (21MIM48)	2023
39.	Anti-inflammatory, anti-oxidant, anti-diabetic, anti-bacterial and Larvicidal activity of Seagrass <i>Thalassia hemprichii</i> .	J. Divya Dharsini (21MIM06)	2023
40.	“Exploring the multifaceted properties of <i>Swietenia macrophylla</i> : antibacterial, antidiabetic, antioxidant, larvicidal, haemolytic and the biosynthesis of silver nanoparticles.”	S. Abinayalakshmi (22MIM04)	2024
41.	“Investigate the Anti- Bacterial, Anti-Oxidant, Anti-Diabetic, Anti-Inflammatory, Larvicidal, Haemolytic activity and iron oxide Nanoparticle synthesis from <i>Gracilaria edulis</i> Extract.”	B. Jayasivam (22MIM24)	2024
42.	“Investigate the Anti- Bacterial, Anti-Oxidant, Anti-Diabetic, Larvicidal	M. Priyanka (22MIM46)	2024

	activity and Haemolytic activity properties of <i>Eichhornia crassipes</i> Extract”		
43.	“Investigate the Larvicidal, Anti-Bacterial, Anti- Oxidant, Haemolytic Properties and the Synthesis of Silver Nanoparticles from <i>Withania somnifera</i> .”	P. Sivaranjani (22MIM50)	2024
44.	“Investigate the Anti- Bacterial, Anti-Oxidant, Larvicidal, Haemolytic activity and Copper Oxide Nanoparticle synthesis from <i>Padina gymnospora</i> .”	S. Sujitha Mangalam (22MIM59)	2023
45.	Antimicrobial efficacy of silver nano particles synthesized from marine actinomycetes – <i>Streptomyces sp.</i>	T. Gr. Aadhithya (14 MIC 01) et al.,	2017

Resource Person:

- “**Scope and Importance of Industrial Microbiology**” Department of Microbiology, Yadava College, Madurai on 09/03/2020.
- Workshop on “**Microbial Analysis of Foods**” organized by the Research Center of Home Science, Fatima College, Madurai on 5 & 7 February, 2019.
- “**Basics of Food Microbiology**” at Department of Food Science and Processing Management, Subbalakshmi Lakshmipathy College of Science, Madurai – 22 on 12 December 2018.
- “**Marine Microbiology – an imminent Prospect**” at Department of Microbiology, Ambiga College of Arts and Science for Women, Madurai 31 July 2018.
- “**Contamination and Spoilage of Vegetable, Fruits and Milk**” at Department of Food Science and Biotechnology, Fatima College, Madurai on 09 October 2017.
- “**Marine Microbiology – Applications to Marine and Coastal Environment**” at Yadava College, Madurai on 29.02.2016.
- “**HIV/AIDS & Sexually Transmitted Infections – An Overview**” at Sree Sevugan Annamalai College, Devakottai, Sivagangai District on 8 Mar 2011.

- **“HIV/AIDS & Opportunistic Diseases and Treatments”** at Dr. Umayal Ramanaathan College for Women, Karaikudi, Sivagangai District on 4 Mar 2011.
- **“Anti-Retroviral Drugs - An Overview”** at Caussanel College of Arts and Science, Muthupettai, Ramanathapuram District on 17 Feb 2011.
- **“HIV/AIDS – Opportunistic Infections”** at Alagappa Chetiar College for Engineering and Technology, Karaikudi, Sivagangai District on 27 January 2011.
- **“Sexually Transmitted Diseases – Related to People living with HIV”** at Dr. Zakir Husain College, Ilayagudi, Sivagangai District, on the 26th Dec 2010.
- **“Treatment & Diagnosis of AIDS Related Opportunistic Infections”** at Seethlakshmi Achi College for Women, Pallathur – 630 107, Sivagangai District on the 14 Dec, 2010.
- **“Treatment of HIV – Related Illnesses and AIDS”** at Madurai Sivakasi Nadar Pioneer Meenakshi College for Women, Poovanthi, Sivagangai District on 4 Dec 2010.
- **“Effect of Smoking – Regarding Microbial Infections”** conducted by The Red Ribbon Club & Syed Hameedha Arts & Science College, Kilakarai, Ramanathapuram District on 7 Oct 2010.
- **“Harmful Effects of Tobacco & Drugs with Special Reference to Microbial Diseases”** conducted by Anantha College, Devakottai, Sivagangai District on 13 July 2010.

Faculty Development Program:

- United Board for Christian Higher Education in Asia (UBCHEA) Sponsored **Four-day Faculty Development Program (FDP 2020)** on **“Emerging Leaders of Service Learning Programme”**, organized by The American College, Madurai at Kodaikanal from 13 – 16 February, 2020.

Seminars/ Symposium/ Conference Participated:

- National Seminar on **“Bioentrepreneurship”** organized by the Department of Microbiology & Biotechnology, S. Vellachamy Nadar College, Madurai on 23 February 2018.
- International Symposium on **“Biomedical Research: Challenges & Opportunities”** organized by the Research Advisory Committee, Fatima College, Madurai on 07.02.2018.

- Science Academies' Lecture Workshop on “**Recent Trends in Modern Biology**” organized by the Postgraduate & Research Department of Zoology, The American College, Madurai 625 002 during 23 – 25 January 2018.
- Science Academies' Lecture Workshop on “**Recent Trends in Microbiology, Biotechnology and Bioinformatics**” organized by the PG & Research Department of Botany, V.O. Chidambaram College, Thoothukudi – 628 008 during 30 and 31 August 2017.
- Science Academies' Lecture Workshop on “**Recent Trends in Biological Sciences**” organized by the Postgraduate & Research Department of Zoology, The American College, Madurai 625 002 on 21 & 22, January 2016.
- Seminar on “**Immunology Today**” in commemoration of the World Immunology Day at Aravind Medical Research Foundation, Madurai on April 29 2015.
- National Conference on “**Natural Products as Therapeutics, Medical Microbiology, Nano biology and System Biology: Current Scenario & Emerging Trends**” Organized by PG & Research Department of Biochemistry, Microbiology, Biotechnology & Bioinformatics, Mohamed Sathak College of Arts & Science, Sholinganallur, Chennai – 600 119 on 18 &19 September 2014.
- State Level Intercollegiate Student's Seminar on “**Emerging & Re Emerging of Infectious Diseases - Global Trends and Challenge**” conducted by the Department of Zoology & Microbiology, Thiagarajar College, Madurai on 23 Sept 2009.
- National Symposium on “**Current Scenario in Microbial Technology**” organized by Department of Microbiology, Bharathidasan University, Tiruchirappalli – 620 024, from Jan 03-05, 2008
- National Seminar on “**Marine Biotechnology**” organized by Department of Biotechnology, St. Michael College of Engineering & Technology, Kalayarkoil, on 04 Oct 2007.

- National Conference on **“Bio - prospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery”** conducted by the Department of Oceanography & Coastal Area Studies, Alagappa University, Karaikudi from 26 – 28, April 2007.
- **“Recent Trends in Biological Sciences”** conducted by the School of Biological Sciences, AVS College of Arts & Sciences, Salem – 636 106 on July 22, 2006.
- **“National Commemorative Conference on Tsunami”** conducted by the School of Energy Sciences, Madurai Kamaraj University, Madurai – 625 021 from 26 – 29 Dec 2005.
- Regional Seminar on **“Energy Resources, Applications, Strategies and Options”** conducted by the School of Energy Sciences, Madurai Kamaraj University, Madurai – 625 021 on February 27, 2004.
- **“Intellectual Property Rights-Present Necessities and Responsibilities”** conducted by National Facility for Marine Cyanobacteria, Bharathidasan University, Tiruchirappalli on 9 Dec 2002.
- State Level Seminar on **“Recent Trends in Biotechnology”** conducted by the Dept. of Microbiology on 29 Aug 2001 at R.V.S. College of Arts & Science, Coimbatore- 641 407.
- **“Crash Course on Applied Biology – An update”** conducted by the Dept. of Biochemistry & Microbiology on 10 and 11 Oct 1998 at K.S. Rangasamy College of Arts & Science, Thiruchengode – 637 209.

Workshop Participated:

- **“Protein Separation: Gel Based”** jointly organized by the Department of Immunology and Microbiology, Madurai and WINRO Science Research Foundation, Tiruchirappalli on 9 – 11 May, 2018.

- **“DNA Barcode”** Organized by the Department of Immunology and Microbiology & Department of Zoology, The American College, Madurai and Exonn Technologies, Chennai held during 11 to 13 May, 2017.
- National Level Workshop on **“Bio Diesel”** at Madurai Kamaraj University, Madurai on Oct, 2006.
- National Level Workshop on **“Bio-informatics”** at G. R. Dhamodaran College, Coimbatore from 25 – 27 Feb 2001.

Participated In Online National Webinar:

1. **“CRISPR/Cas9, A Genome Editing System With COVID 19 Diagnosis ”**Organized By Department of Biochemistry, K. R. College of Arts And Science, Kovil Patti, Tamil Nadu.
2. **“Online Resources For Research Plagiarism”**, Organized By Ansal University, Gurgaon, Held on June 2, 2020.
3. **“Generation of Genomics Resources And Usage Of Bioinformatics Tool”**, Organized By Department of Zoology, V. O. Chidambaram College on 09.06.2020, Thoothukudi, Tamil Nadu.
4. **“DNA Fingerprinting and Its Applications in Genetic Testing”**, Organized By Department of Zoology, V. O. Chidambaram College on 08.06.2020, Thoothukudi, Tamil Nadu.
5. **“Artificial Intelligence”**, Organized By Department of Computer Science (SF), Ayya Nadar Janaki Ammal College Sivakasi on 08.06.2020.
6. **“Drug Design & Development”** Held on 10th June, 2020, Organized By Department of Chemistry, Sapthagiri College of Engineering, Bangalore.
7. **“NMR Spectroscopy In CSIR/GATE PERSPECTIVE”** Organized By PG And Research Department of Chemistry, Vivekananda College, Tiruvedakam West, Madurai Held on 12.06.2020.
8. **“Mangrove Environment”** Organized By The Department of Botany, A.V.V.M Sri Pushpam College, Poondi, Thanjavur on 5th June 2020, Tamil Nadu.

9. **“Spectroscopic Techniques – 1”** Organized By American College Central **“Research Methodology”** Held on 12th And 13th June, 2020. Organized By Loyola College, Chennai, and Tamil Nadu.
10. **“Recent Trends in Energy Environment and Technology”**, Organized By VHNSN College, Virudunagar, Tamil Nadu, Held on 9th June 2020.
11. **“ Modern Technology In Life Science”** Organized By Department of Life Science, Mass College of Arts And Science Association With Research & Development Cell on 28th And 29th May 2020, Kumbakonam, Tamil Nadu.
12. **“Education And Career Counselling For Life Science”**, Held on 8th June, 2020, Organized By Department of Microbiology, School of Life Science, VISTAS, Chennai.
13. **“Insights of New Human Invades: SARS: COVID -2”** Held on 12th June, 2020 Organized By The Department of Microbiology, School of Life Science, VISTAS, Pallavaram, Chennai.
14. **“Current Trends In Fish Bio Technology Research”** Organized By Institute of Fisheries Post Graduate Studies, TNJFU OMR Campus, Chennai, on 9th To 11th July, 2020.
15. **“Advanced Materials for Energy, Environment & Healthcare Application”** Organized By Sethu Institute of Technology, Held on June 29th, 30th & July 1st 2020.

Participated In Online International Conference:

1. **“Synergistic Efforts Of Academicians And Industrialists In Combating COVID – 19 Using Luminescence”** Organized by Department of Physics , ST. Pious X Degree & PG College For Women, Associated With Luminescence Society of India, Sinsil International, Hyderabad, Held on 2nd June, 2020.
2. **“Omics & Disease Marker”**, Organized by Department of Botany & Biotechnology, ST. Pious X Degree & PG College For Women Held on 9th June 2020.

3. **“Biomedical Application”** Organized by PG Department of Plant Biology And Plant Biotechnology (SFS), SNDP Vaishnav College For Women on 10th July 2020.
4. **“Silicon And Plant Boostar And Protector”**, Organized by UG And PG Department of Plant Biology And Plant Biotechnology, Shrimathi Devkunvar Nanalal Bhatt Vaishnav College For Women, Chennai, held on 1st July 2020.
5. **“Microplastics 2020”** Organized By Center For Nano Biotechnology (CNBT) at Vellore Institute of Technology (VIT) Vellor, Tamil Nadu, on 30th June 2020.
6. **“Biomedical Applications”**, organized by PG Department of Plant Biology and Plant Biotechnology (SFS), SDNB Vaishnav College for Women on 10th July 2020.

Participated In Online International Workshop:

1. International Workshop on **“Bio-Nano Interface for COVID-19”** on May 31, 2020. Organized By Department of Zoology And Microbiology, Thiagarajar College, Madurai.

Participated In Online Workshop:

1. Two Day Online Workshop on **“SPARC-INDO-US Immunology”** Jointly Organized By Indian Institute of Technology (IIT) Popar, India & The George Washington University, USA, and Held on June 12 & 13, 2020.

External Examiner/ Question Paper Setter/ Valuation:

- Periyar University, Salem
- Alagappa University, Karaikudi, Sivagangai District.
- Thassim Beevi Abdul Kadar College for Women, (Autonomous) Keelakarai, Ramanathapuram District.
- The Madura College (Autonomous), Madurai.
- Sourashtra College (Autonomous), Madurai.

- Sivakasi Fireworks Rajarathinam College for Women, (Autonomous), Sivakasi, Virudhunagar District.
- Yadava College, (Autonomous), Madurai.
- Mother Teresa Women's University, Kodaikanal, Dindugul District.
- Vivekanada College (Autonomous), Thiruvadakam, Madurai.
- Fatima College (Autonomous), Madurai.
- Jayaraj Annapakiam College for Women (Autonomous), Periyakulam, Theni District.
- Sri Kaleswari College, Sivakasi.
- NMSS Vellachamy Nadar College, Nagamalai Pudhukottai, Madurai – 19
- E.M.G. Yadava Women's College (Autonomous), Madurai.
- Hajee Karutha Rowther Howdia College, Uthamapalayam, Theni District.
- Lady Doak College, Madurai.
- Thiagarajar College, Madurai.

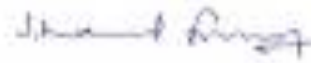
Personal Details:

Father's Name : M. Jayasingh
Date of Birth : 06.07.1978
Sex : Male
Marital Status : Married
Nationality : Indian
Religion : Christian

Names and Addresses of References:

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<p>Dr. N. THAJUDDIN Associate Professor and Head, Department of Microbiology, National Facility for Marine Cyanobacteria, Bharathidasan University, Tiruchirappalli - 620 024. Phone:0091-98423 79719 Email: nthaju2002@yahoo.com</p>	<p>Dr. P. SAMUEL PAUL RAJ Prof. & Head, Dept. of Natural Resources and Waste Recycling, Advisor: Intl. Foundation for Science, Sweden. School of Energy Sciences, Madurai Kamaraj University, Madurai - 625 021. Phone: 0091-9443345826 Email: spraj1951@yahoo.com</p>

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PG Department of Microbiology,
The American College, Madurai – 625 002.



Place:

Date:

(J. IMMANUEL SURESH)