<table>
<tr><td>Name</td><td colspan="4">CURRICULUM VITAE

Dr. V.S. Saravanan Ph.D.</td></tr>
<tr><td>Designation</td><td colspan="4">Dept. of Microbiology,
Indira Gandhi College of Arts & Science,
Pondicherry 605 009</td></tr>
<tr><td>Address for communication with E-Mail & Mobile No.</td><td colspan="4">No. 7 Thambu naicker Street,
Pondicherry 605001.
Mobile No. 9597953063
E-mail: vssaravanan@dhtepdy.edu.in
vigsaran@gmail.com

● Webpage https://saranmicro.wordpress.com/
● To download a copy of my CV, click HERE

  </td></tr>
<tr><td rowspan="4">Educational Qualification (from UG Level onwards)</td><td>Degree</td><td>Institution/University</td><td>Month & Year of Passing</td><td>Class/ %/ CGPA</td></tr>
<tr><td>B.Sc.(Ag.)</td><td>Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India</td><td>1996</td><td>79</td></tr>
<tr><td>M.Sc.(Ag.)</td><td>Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India</td><td>1999</td><td>89</td></tr>
<tr><td>Ph.D. (Ag. Micro)</td><td>Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India</td><td>2004</td><td>94.6</td></tr>
<tr><td>Teaching Experience</td><td>UG:</td><td>Years: 17
Months: 9</td><td>PG:</td><td>Years: 3
Months : 6</td></tr>
<tr><td>Research Experience/Area of Specialization</td><td colspan="4">RESEARCH EXPERIENCE

Worked as Post-Doctoral Fellow (July 2006-June 2007) under BK 21 programme at Department of Agrl. Chemistry, Chungbuk National University, Cheongju, Chungbuk -361-763. Republic of Korea.

AREA OF SPECIALIZATION

● Genome based bacterial taxonomy
● Soil and Agricultural Microbiology
● Polyphasic Bacterial taxonomy

● Subject Matter Specialized – Learning Management System Developer (SMS-LMSD) for customized learning needs</td></tr>
</table>

No. of Papers Presented in Conference/ Seminars/ Symposia	National:	4		International:		-
No. of Papers Published in Journals/Books	National:	-		International:		38
No. of Conference/ Seminars/Symposia Organized	Workshop:	-	Seminar:	-	Conference:	-
No. of Conference/ Seminars/Symposia Attended	Workshop:	2	FDP:	13	Conference:	4
Refresher course attended	2					
Orientation course attended	1					

Details of Papers Presented in Conference/ Seminars/ Symposia

Saravanan V.S. (2023) Transformative teaching of Microbiology-Customized learning experience to undergraduate students – an oral presentation presented and bagged 2nd Best presentation Award in an Online International Conference on "Emerging Trends in Higher Education" conducted on 28-29 March 2023 by Guru Angad Dev Teaching Learning Centre (GAD-TLC), S.G.T.B. Khalsa College, University of Delhi, India. in Association with NPTC Group of Colleges, and UK Awards, UK.

Click HERE to download the copy of the presentation.

வி.எஸ். சரவணன், பெ. கலைச்செல்வி, ப. ஜெயசங்கரன் (2020)

கரையாத துத்தநாக சேர்மங்களை கரைக்கும் திறனை உடையகுளுக்கனோஅசிடோபாக்டா; டையசோட்ரோப்பிக்கஸ் பாக்டீரியாவை மற்ற ஊட்டச்சத்து கரைப்பான் பாக்டீரியாக்களுடன் ஆய்வக பரிசோதனை மதிப்பீட்டில் ஒப்பீடு செய்தல் என்ற தலைப்பில் வேளாண் அறிவியல் தமிழ் இயக்கம் புதுடெல்லி சார்பில் 21 மற்றும் 22 டிசம்பர் 2020இல் நடந்த நாடளாவிய ஆறாம் வேளாண் அறிவியல் ஆராய்ச்சி மாநாட்டில் கலந்துகொண்டு இணையவழி ஆராய்ச்சி பரப்புரையில் பங்கேற்றேன். இதில் சுற்றுச்சூழல் அறிவியல் பகுதியில் எனது கட்டுரைக்கு சிறந்த கட்டுரை விருது (முதல் பரிசு) அளிக்கப்பட்டது.

V.S. Saravanan (27th and 28th February) presented a paper titled "Role of microorganisms in Agriculture" in the International Conference on "Emerging trends in Bio-Science" – ICEBS'18, held in the Department of Biotechnology, M.M.E.S Women's Arts and Science College, Melvisharam, Vellore.

	V.S. Saravanan (19th Feb 2016) presented a paper titled "A critical appraisal on model curriculum for microbiology course proposed by University Grants Commission India" on the National Workshop on Curriculum Designing in Microbiology (NAWO CDM-2016) conducted don 18th and 19th February 2016 by PG and Research Department of Microbiology, St. Joseph's College of Arts and Sciences (Autonomous) Cuddalore – 607 001. **V.S. Saravanan** (2014) presented a poster titled "Association of *Methylobacterium* with the tree plant grown in the Auroville region, Pondicherry" In: the Association of Microbiologist of India 55th Annual Conference titled "National conference on empowering mankind with microbial technologies (AMI-EMMT-2014) conducted at Coimbatore from 12th to 14th November 2014". **V.S. Saravanan** (2012) Presented a lead paper titled "Metagenomic approach for bio-inoculant development" in a National Symposium on " Recent Advances in Bio-inoculants Technology" conducted by Department of Agricultural Microbiology, Agricultural College and Research Institute, Madurai on 1st and 2nd March 2012.
Details of Papers Published in Journals/Books	**i. Total H-index – 17* or 20**** **ii. Total i-10 index – 30** *As per Scopus Index or **as per Google Scholar Index Munusamy Madhaiyan, †**Venkatakrishnan Sivaraj Saravanan**, Wah-Seng See-Too, Camila Gazolla Volpiano, Fernando Hayashi Sant'Anna, Fábio Faria da Mota, Vartul Sangal, Iain Sutcliffe, Luciane Maria Pereira Passaglia, Alexandre Soares Rosado (2022) Genomic and phylogenomic insights into the family *Streptomycetaceae* lead to the proposal of six novel genera**. Int. J. Syst. Evol. Microbiol.** 72: 005570 ***DOI 10.1099/ijsem.0.005570*** (Impact factor 2.7). †*Equal author contribution with first author* Munusamy Madhaiyan, Shankar Sriram, Nedounsejian Kiruba, † **Venkatakrishnan Sivaraj Saravanan** (2022) Genome-based Reclassification of *Paraburkholderia insulsa* as a later heterotypic synonym of *Paraburkholderia fungorum* and proposal of *Paraburkholderia terrae* subsp. *terrae* subsp. nov. and *Paraburkholderia terrae* subsp. *steynii* subsp. nov. **Curr. Microbiol**. ***https://doi.org/10.1007/s00284-022-03058-2*** 79: 358 (Impact factor 2.6). †*Equal author contribution with first author* Madhaiyan M., Wirth J.S., **Saravanan V.S**. (2022) Reply to the Letter to the Editor: Reclassification of *Staphylococcus schleiferi* by Madhaiyan *et al.* lacks key supporting data. **Int. J. Syst. Evol. Microbiol.** 72 (6):005429.

https://doi.org/10.1099/ijsem.0.005429 (Impact factor 2.7).

Selvapravin Kumaran, Anna Christina R. Ngo, Fabian Schultes, **Venkatakrishnan Sivaraj Saravanan**, Dirk Tischler (2022) *In vitro* and *in silico* analysis of Brilliant Black degradation by Actinobacteria and a *Paraburkholderia* sp. **Genomics** 114: 110266 https://doi.org/10.1016/j.ygeno.2022.01.003 (Impact factor - 4.3).

Camila Gazolla Volpiano, Fernando Hayashi Sant'Anna, Fábio Faria da Mota, Vartul Sangal, Iain Sutcliffe, Madhaiyan Munusamy, **Venkatakrishnan Sivaraj Saravanan**, Wah-Seng See-Too, Luciane Maria Pereira Passaglia, Alexandre Soares Rosado (2021) Proposal of *Carbonactinosporaceae* fam. nov. within the class *Actinomycetia*. Reclassification of *Streptomyces thermoautotrophicus* as *Carbonactinospora thermoautotrophica* gen. nov., comb. nov. **Syst. Appl. Microbiol.** 44: 126223 https://doi.org/10.1016/j.syapm.2021.126223 (Impact factor - 4.0).

Madhaiyan M., Wirth J.S., **Saravanan V.S**. (2020) Phylogenomic analyses of the *Staphylococcaceae* family suggest the reclassification of five species within the genus *Staphylococcus* as heterotypic synonyms, the promotion of five subspecies to novel species, the taxonomic reassignment of five *Staphylococcus* species to *Mammaliicoccus* gen. nov., and the formal assignment of *Nosocomiicoccus* to the family *Staphylococcaceae* **Int. J. Syst. Evol. Microbiol.** 70 (11): 5926-5936. https://doi.org/10.1099/ijsem.0.004498 (Impact factor 2.7).

Madhaiyan M, **Saravanan VS**, Wirth J.S., Alex T.H.H. Kim S.J., Weon H.Y., Kwon SW, Whitman WB, and Ji LH (2020) *Sphingomonas palmae* sp. nov. and *Sphingomonas gellaniae* sp. nov., endophytically associated phyllosphere bacteria isolated from economically important crop plants. **Antonie van Leeuwenhoek** 113: 1617-1632. https://doi.org/10.1007/s10482-020-01468-5 (Impact factor 2.2)

Madhaiyan M., *__Saravanan V.S.__ and See-Too W-S. (2020) Genome- based analyses reveal the presence of 12 heterotypic synonyms in the genus *Streptomyces* and emended descriptions of *Streptomyces bottropensis*, *Streptomyces celluloflavus*, *Streptomyces fulvissimus*, *Streptomyces glaucescens*, *Streptomyces murinus*, and *Streptomyces variegatus***. Int. J. Syst. Evol. Microbiol.** 70 (6): 3924–3929. https://doi.org/10.1099/ijsem.0.004217. (Impact factor 2.7)**.** **Equal author contribution with first author*

Madhaiyan M., See-Too W-S., Ee R., **Saravanan, V.S.,** Alex T.H.H., Lin C., Kim S.J., Weon H-Y., Kwon S.W., Whitman W.B., and Ji L. (2020) *Chitinasiproducens palmae* gen. nov., sp. nov., a new member of the family *Burkholderiaceae* isolated from leaf tissues of oil palm (*Elaeis guineensis Jacq.*). **Int. J. Syst. Evol. Microbiol.** 70 (4): 2640-2647. https://doi.org/10.1099/ijsem.0.004084 (impact factor 2.7)**.**

Madhaiyan M, **Saravanan V.S**., Wirth J.S. and Whitman W.B. (2020) Reclassification of *Sphingomonas aeria* as a later heterotypic synonym of *Sphingomonas carotinifaciens* based on whole-genome sequence analysis. **Int. J. Syst. Evol. Microbiol.** 70 (4): 2355-2358. https://doi.org/10.1099/ijsem.0.004045 (impact factor 2.7).

Madhaiyan, M. **Saravanan, V.S**. Smits, T.H.M., Rezzonico, F., Kwon, S-W. Whitman W.B. and Ji L. (2020) *Phytobacter palmae* sp. nov., a novel endophytic, N fixing, plant growth promoting *Gammaproteobacterium* isolated from oil palm (*Elaeis guineensis Jacq.).* **Int. J. Syst. Evol. Microbiol.,** 70 (2): 841-848. DOI 10.1099/ijsem.0.003834 (impact factor 2.7).

Saravanan V.S. (2017) Pitfalls in the Syllabus of B.Sc. (Honours) Microbiology courses proposed under choice-based credit system by University Grants Commission, India. **Curr. Sci. India** 112: 1318-1319 (impact factor - 0.9).

Madhaiyan M, Poonguzhali S, **Saravanan V.S.**, Selvapravin K, Duraipandiyan V. and Al-Dhabi N.A. (2017) *Pseudomonas sesame* sp. nov., a plant growth-promoting γ-*Proteobacterium* isolated from rhizosphere soil of Sesame (*Sesamum indicum* L.). **Antonie van Leeuwenhoek** 110: 843-852. DOI 10.1007/s10482-017-0859-x (impact factor 1.7).

Munusamy Madhaiyan, Selvaraj Poonguzhali, **Venkatakrishnan Sivaraj Saravanan**, Veeramuthu Duraipandiyan, Naif Abdullah Al-Dhabi, Soon-Wo Kwon and William B. Whitman (2017) *Paenibacillus polysaccharolyticus* sp. nov., a xylanolytic and cellulolytic bacteria isolated from leaves of Bamboo *Phyllostachys aureosulcata* **Int. J. Syst. Evol. Microbiol.,** 67: 2127-2133. DOI 10.1099/ijsem.0.001901 (impact factor 1.9).

Munusamy Madhaiyan, Selvaraj Poonguzhali, **Venkatakrishnan Sivaraj Saravanan**, Veeramuthu Duraipandiyan, Naif Abdullah Al-Dhabi and Palani Santhanakrishnan (2016) *Streptomyces pini* sp. nov., a novel actinomycete isolated from phylloplane of pine leaves. **Int. J. Syst. Evol. Microbiol.,** 66:

4204 - 4210. DOI 10.1099/ijsem.0.001336 (impact factor 2.4).

Munusamy Madhaiyan, Selvaraj Poonguzhali, **Venkatakrishnan Sivaraj Saravanan**, Dhandapani Pragatheswari, Veeramuthu Duraipandiyan, Naif Abdullah Al-Dhabi and Palani Santhanakrishnan (2016) *Paenibacillus methanolicus* sp. nov. a xylanolytic bacterium isolated from the phyllosphere of Bamboo *Pseudosasa japonica* **Int. J. Syst. Evol. Microbiol.,** 66: 4362-4366 doi: 10.1099/ijsem.0.001356 (impact factor 2.4).

Joe M.M., Benson A., **Saravanan V.S.** and Sa T. (2015) *In vitro* antibacterial activity of nanoemulsion formulation on biofilm, AHL production, hydrolytic enzyme activity and pathogenicity of *Pectobacterium carotovorum* sub sp. *carotovorum*. **Physiol. Mol. Plant Pathol.** 91: 46-56 DOI:10.1016/j.pmpp.2015.05.009 (impact factor – 1.9).

Madhaiyan, M. Poonguzhali, S., **Saravanan V.S**. and Kwon S.W. (2014) *Rhodanobacter glycinis* sp. nov., a yellow-pigmented Gammaproteobacterium isolated from the rhizoplane of field-grown soybean. **Int. J. Sys. Evol. Microbiol**. 64: 2023-2028 DOI 10.1099/ijs.0.055525-0 (impact factor -2.2).

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Rajasankar, R. Manju Gayathry, G. Sathiavelu, A., Ramalingam C. and **V.S. Saravanan** (2013) Pesticide tolerant and phosphorus solubilizing *Pseudomonas* sp. strain SGRAJ09 isolated from pesticides treated *Achillea clavennae* rhizosphere soil. **Ecotoxicology** 22: 707-717. DOI: 10.1007/s10646-013-1062-0 (impact factor-2.3).

Manoharan Melvin Joe, **V.S. Saravanan,** and T. Sa (2013) Aggregation of selected plant growth promoting *Methylobacterium* strains: role of cell surface components and hydrophobicity. **Arch. Microbiol.,** 195: 219-225. DOI 10.1007/s00203-013-0866-x (impact factor-1.5).

Rohini-Kumar, M., Jabez W. Osborne and **V. S. Saravanan** (2013) Comparison of soil bacterial communities of *Pinus patula* of Nilgiris, Western Ghats with

other biogeographically distant pine forest clone libraries. **Microb. Ecol.**, 66:132-144 DOI 10.1007/s00248-012-0167-y (impact factor -3.2).

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Rohini Kumar M. and **Saravanan V.S.** (2010) Candidate OP phyla: Importance, ecology and cultivation prospects. **Indian J. Microbiol.,** 50 (4): 474-477. DOI 10.1007/s12088-011-0144-z (impact factor 0.9).

Palaniappan P., P.S. Chauhan, **V.S. Saravanan**, R. Anandham and T.M. Sa (2010) Isolation and characterization of plant growth promoting endophytic bacterial isolates from root nodule of *Lespedeza* sp. **Biol. Fert. Soils** 46: 807-816. DOI 10.1007/s00374-010-0485-5 (impact factor 2.1).

M. Madhaiyan, S. Poonguzhali, J.S. Lee, K.C. Lee, **V.S. Saravanan** and P. Santhanakrishnan (2010) *Microbacterium azadirachtae* sp. nov., a novel plant-growth promoting actinobacterium isolated from the rhizoplane of neem seedling. **Int. J. Sys. Evol. Microbiol.,** 60: 1687–1692 DOI 10.1099/ijs.0.013664-0. (impact factor 1.9).

M. Madhaiyan, S. Poonguzhali, J.S. Lee, **V.S. Saravanan**, K.C Lee and Santhanakrishnan (2010) *Enterobacter arachidis* sp. nov. a plant-growth promoting diazotrophic bacterium isolated from rhizosphere soil of groundnut**. Int. J. Sys. Evol. Microbiol.,** 60: 1559-1564 DOI 10.1099/ijs.0.013664-0. (Impact factor 1.9).

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V.S. Saravanan, M. Madhaiyan, Jabez Osborne, M. Thangaraju T.M. Sa (2008). Ecological occurrence of *Gluconacetobacter diazotrophicus* and nitrogen-fixing *Acetobacteraceae* members: Their possible role in plant growth promotion. Microb. Ecol., 55: 130-140. doi: 10.1007/s00248-007-9258-6 .(impact factor 2.4).

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Anandham, R, P. Indira Gandhi, M. Madhaiyan, Kyounga Kim, Woojong Yim, **V.S. Saravanan**, Jongbae Chung and Tongmin Sa (2007) Thiosulfate oxidation and mixotrophic growth of *Methylobacterium oryzae*. **Can. J. Microbiol.,** 53:869-876. doi:10.1139/W07-057 (impact factor 1.8).

V.S. Saravanan, J. Osborne, M. Madhaiyan, L. Mathew, J. Chung, K. Ahn, T. Sa (2007c) Zinc metal solubilization by *Gluconacetobacter diazotrophicus* and induction of pleomorphic cells. **J. Microbiol. Biotechnol.,** 17: 1477-1488. (impact factor 2.6).

V.S. Saravanan, P. Kalaiarasan**,** M. Madhaiyan and M. Thangaraju (2007b) Solubilization of insoluble zinc compounds by *Gluconacetobacter diazotrophicus* and the detrimental action of zinc ion (Zn^{2+}) and zinc chelates on root knot nematode *Meloidogyne incognita*. **Lett. Appl. Microbiol.,** 44**:** 235-241. doi:10.1111/j.1472-765X.2006.02079.x (impact factor 1.8).

V.S. Saravanan, Madhaiyan, M. and Thangaraju, M. (2007a) Solubilization of zinc compounds by the diazotrophic, plant growth promoting bacterium *Gluconacetobacter diazotrophicus*. **Chemosphere,** 66: 1794–1798. doi:10.1016/j.chemosphere.2006.07.067 impact factor 2.4).

M. Madhaiyan, S. Poonguzhali, K. Hari, **V.S. Saravanan** and TM Sa. (2006). Influence of pesticides on the growth rate and plant-growth promoting traits

	of *Gluconacetobacter diazotrophicus* **Pestic. Biochem. Phys.,** 84: 143-154. doi:10.1016/j.pestbp.2005.06.004 (impact factor 1.5). M. Madhaiyan, **V.S. Saravanan**, D. Bhakiya Shilba Sandal Jovi, Hyoungseok Lee, R. Thenmozhi, K. Hari and TM Sa. (2004). Natural endophytic occurrence of *Gluconacetobacter diazotrophicus* in tropical and subtropical plants of Western Ghats, India. **Microbiol. Res.,** 59: 233-243. doi:10.1016/j.micres.2004.04.001 (impact factor 0.9). V.S. Saravanan, Sudalayandy Rama Subramoniam and Savariappan Anthoni Raj (2004). Assessing *in vitro* solubilization potential of different zinc solubilizing bacterial (ZSB) isolates. **Braz. J. Microbiol.,** 34:121-125. doi.org/10.1590/S1517-83822004000100020 (impact factor 0.1).
Details of Conference/ Seminars/Symposia Attended	**V.S. Saravanan** (20 & 22st March 2019) Participated in the National Conference on "Recent Trends in Microbiome Research (Wonders of the Small 2.0)" by the Dept. of Microbiology, Pondicherry University. **V.S. Saravanan** (22nd September 2018) Participated in a National workshop on E-learning, MOOCs in Swayam / NPETEL and Personalized Education, conducted by Internal Quality Assurance Cell of the AMET deemed University. **V.S. Saravanan,** R. Anandham, M. Madhaiyan, In Soo Hong, T.M. Sa (2007) Effect of Zn uptake by maize due to *Burkholderia* spp. inoculation. Poster presented in **Korean Society of Soil Science Biennial meeting.** **Saravanan V.S**., M. Madhaiyan, M. Thangaraju and T.M. Sa (2006) Comparative study on solubilization of Zn and other insoluble compounds by *Gluconacetobacter diazotrophicus* and certain PGPR's. Poster presented in **Korean Society of Soil Science and Fertilizer Symposium**, Suambo, Republic of Korea. (Abst) 148-149.

Details of Refresher course attended	• Participated in Indian Council of Agriculture Research (ICAR) sponsored Centre for Advanced Faculty Training programme on: Biocatalysts for Fuel and Chemicals from Biomass, from 07th to 27th August 2014, 21 days training programme conducted in Centre for Advanced Studies in Agricultural Microbiology, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India. • Participated in a 10 days National level training on "Metagenomics: Methods and Applications in Microbiology" from 11-20th of January 2011, conducted by National Bureau of Agriculturally Important Microorganisms, Kusmaur, Mau Nath Bhanjan, UP, India.
Details of Orientation course attended	• Participated in a 26 days Orientation Course (from 20-5-2009 to 16-6-2009) conducted by the Academic Staff College, Pondicherry University, India.
Details of FDP programmes undertaken	• Successfully completed one-week online faculty development programme on the topic **"**Safety and hygiene in online (Cyber) world**"** sponsored by Ministry of Education, *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)* from 01-08th March 2021organized by Teaching Learning Centre, Ramanujan College, in collaboration with Research Services and Development Cell, Ramanujan College, University of Delhi. • Successfully completed one week online National faculty development program on the **"**Development of e-content & MOOCs in four quadrants**"** sponsored by Ministry of Education, *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)* from 18-23rd January 2021organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa college, University of Delhi in collaboration with Kanya Maha Vidyalaya, Jalandhar. • Successfully completed one-week faculty development programme on the topic **"**Higher Education, Road Ahead "Developing Generation Academic Leaders**"** sponsored by Ministry of Education, *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)* from 25-11-2020 to 01-12-2020 jointly organized by Dept. of Commerce and

IQAC, Sri Venkateshwara College, Delhi University and Teaching Learning Centre, Ramanujan College, University of Delhi.

- Successfully completed one-week faculty development programme on the topic "Open source tools for research" sponsored by Ministry of Human Resource Development, *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)*, organized from 08-06-2020 to 14-06-2020 by Teaching Learning Centre, Ramanujan College, University of Delhi.

- Successfully completed two weeks faculty development programme on the topic "Managing online classes and co-creating MOOCS" sponsored by Ministry of Human Resource Development, *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)*, organized from 18-05-2020 to 03-06-2020 by Teaching Learning Centre, Ramanujan College, University of Delhi.

- Participated on a one-week online workshop on Interactive E content organized by the Women's polytechnic, Pondicherry from 04-05-2020 to 08-05-2020.

- Participated on a webinar conducted by Atal Incubation Centre-Pondicherry Engineering College Foundation titled "How to Conduct Online Class to Students" on 30-04-2020. Followed by an online examination conducted on 08-04-2020 and secured "S" Grade.

- Successfully completed an online based course on **"**OER for Empowering Teachers**"** (29th July to 20th September 2019) in SWAYAM platform with 2 credits, my consolidated score of 81 per cent in the final proctored examination held on 10-11-2019. The course was offered by National Institute of Technical Teaching, Training and Research, Chennai.

- Successfully completed an online based course on **"**E content Development**"** (28th October to 24th December 2018) in SWAYAM platform with 3 credits, my final consolidated score was 84 per cent in the final proctored examination held on 22-05-2019. The course was offered by National Institute of Technical Teaching, Training and Research, Chennai.

- Successfully completed an online AICTE recognized faculty development programme based 4 weeks course (Aug- Sept 2018) on **"**Functional Genomics**"** under "Elite category" (76 %). The course was offered by Indian

	Institute of Technology, Kanpur under NPTEL online certification programme, which was also partnered by Swayam programme. ● Successfully completed an online course (ET702x) on Learner-Centric MOOC conducted by IIT BombayX from Aug 2 to September 6, 2018 an online learning initiative of Indian Institute of Technology Bombay. ● Successfully completed a hybrid MOOC based Faculty development programme (FDP201x) on Pedagogy for Online and Blended Teaching-Learning Process, conducted by Indian Institute of Technology, Bombay from May 3 to 12 June 2018, online activity from Thursday 3 May 2018 to Tuesday 12 June 2018 and physical participation at Remote Center (1400) on 12 and 13 May and 26 and 27 May together considered as two weeks equivalent FDP course, this FDP is conducted under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT). ❖ I am one among the top 320 performers on a total of 1571 certified participants in the FDP programmes (FDP101x & FDP 201x) conducted by IIT Bombay in the year 2018 and has been awarded with *Certificate of Excellence*. ● Successfully completed a hybrid MOOC based Faculty development programme (FDP101x) on Foundation Program in ICT for Education, conducted by Indian Institute of Technology, Bombay from March 8 to 12 April 2018, online activity from Thursday 8 March 2018 to Thursday 12 April 2018 and physical participation at Remote Center (1400) on 24 and 25 March together considered as two weeks equivalent FDP course. this FDP is conducted under the aegis of Pandit Madan Mohan Malaviya National Mission for Teachers and Teaching (PMMMNMTT).
Other relevant information, if any (Achievements, Awards, etc.)	**OER AND E CONTENT DEVELOPED** [as per UGC Regulations on minimum qualifications for appointment of teachers and other academic staff in universities and colleges and measures for the maintenance of standards in higher education, 2018; p 57 &105 3(d)] I m well learnt and experienced in online based pedagogy and blended teaching-learning through two hybrid teaching based Massively Online Open Courses (MOOC) courses offered by IIT Bombay. I have developed "***State of Art – no cost technology based***" teaching-learning system as Open Educational Resources (OER), adopting the four quadrant principles of Ministry of Education India and UGC 2018 regulations. These OER's are used by myself for teaching-learning in the B.Sc.

Microbiology programme and also shared with colleagues.

- SARAN learning system, Cell Biology - https://sites.google.com/dhtepdy.edu.in/igcascellbiology/home
- SARAN learning system, Bacterial Physiology & Metabolism - https://sites.google.com/dhtepdy.edu.in/bacterialphysiologymetabolism
- SARAN learning system, Molecular Biology - https://sites.google.com/dhtepdy.edu.in/molecularbiology/home
- SARAN learning system, Soil & Agricultural Microbiology - https://sites.google.com/dhtepdy.edu.in/soilagri/home
- SARAN learning system, Microbial Diversity & Bacterial Phylogeny - https://sites.google.com/dhtepdy.edu.in/mdbp/home

CONTRIBUTIONS TO NIRF RANKING (2018-21) OF IGCAS

My research contribution to Indira Gandhi College of Arts and Science (IGCAS) that in turn significantly impacted the ranking of IGCAS within 150th (for 2018 and 2019) and within 200th rank (for 2020 and 2021) in the NIRF Rankings

In addition to OER development for my courses and syllabus, ***by my research credentials, through collaborative research*** I contributed to **the significant research output of Indira Gandhi College of Arts and Science for the year 2018 (31 %); 2019 (46 %), 2020 (55 %), and 2021 (60 %) as retrieved by NIRF.**

This was counted under "Research and Professional Practice" one of the important parameters in National Institutional Ranking Framework (NIRF) for national level ranking of colleges. In this national level annual ranking exercise, IGCAS was ranked ***within best 150 colleges of India for two consecutive years (2018 and 2019) and within 200 colleges (2020 and 2021)*** rank-band and incidentally *IGCAS is the only college in Puducherry region to be ranked for four consecutive years*. Details of my contribution are as follows:

- For the NIRF ranking (2023) Indira Gandhi College's total research papers for the evaluated years 2019-21 was maximum of 11, in which I contributed 7 research papers, my contribution equals to 63.6 % of the research papers documented in SCOPUS and includes > 95 % citations of Indira Gandhi College of Arts and Science as retrieved by NIRF.
- For the NIRF ranking (2022) Indira Gandhi College's total research papers for the evaluated years 2018-20 was maximum of 9, in which I contributed 6 research papers, my contribution equals to 66.6 % of the

research papers documented in SCOPUS and includes > 95 % citations of Indira Gandhi College of Arts and Science as retrieved by NIRF.

- In the NIRF ranking (2021) Indira Gandhi College's total research outcome for the evaluated years 2017-19 was maximum of 5 research papers, in which **I contributed 3 research papers**, my contribution equals to 60 % of the research papers documented in SCOPUS for Indira Gandhi College of Arts and Science and retrieved the same by NIRF.

- In the NIRF ranking (2020) Indira Gandhi College's total research outcome for the evaluated years 2016-18 was maximum of 9 research papers, in which **I contributed 5 research papers**, my contribution equals to 55.55 % of the research papers documented in SCOPUS for Indira Gandhi College of Arts and Science and retrieved the same by NIRF.

- In the NIRF ranking (2019) Indira Gandhi College's total research outcome for the evaluated years 2015-17 was maximum of 13 research papers, in which **I contributed 6 research papers**, my contribution equals to 46 % of the research papers documented in SCOPUS for Indira Gandhi College of Arts and Science and retrieved the same by NIRF.

- In the NIRF ranking (2018) Indira Gandhi College's total research outcome for the evaluated years 2014-16 was maximum of 16 research papers, in which **I contributed 5 research papers**, my contribution equals to 31 % of the research papers documented in SCOPUS for Indira Gandhi College of Arts and Science and retrieved the same by NIRF.

AWARDS

- Awarded Best Oral Presentation (2nd prize) in the International Conference on Emerging trends in Higher Education, conducted on 28-29th March 2023, organized by Guru Angad Dev Teaching Learning Centre (GAD-TLC), S.G.T.B. Khalsa College, University of Delhi, India.
- Awarded "Best Researcher Award 2021-22" for my academic contribution in Science and Technology especially in the field of Bacterial Taxonomy under the category of "Microbiology" specialization having adjudicated during the academic year 2020-2021 by Novel Research Academy, Puducherry India.
- கரையாத துத்தநாக சேர்மங்களை கரைக்கும் திறனை உடையகுளுக்கனோஅசிடோபாக்டா; டையசோட்ரோப்பிக்கஸ் பாக்டீரியாவை மற்ற ஊட்டச்சத்து கரைப்பான் பாக்டீரியாக்களுடன் ஆய்வக பரிசோதனை மதிப்பீட்டில்

	ஒப்பீடு செய்தல் என்ற தலைப்பில் வேளாண் அறிவியல் தமிழ் இயக்கம் புதுடெல்லி சார்பில் 21 மற்றும் 22 டிசம்பர் 2020இல் நடந்த நாடளாவிய ஆறாம் வேளாண் அறிவியல் ஆராய்ச்சி மாநாட்டில் கலந்துகொண்டு இணையவழி ஆராய்ச்சி பரப்புரையில் பங்கேற்றேன். இதில் சுற்றுச்சூழல் அறிவியல் பகுதியில் எனது கட்டுரைக்கு சிறந்த கட்டுரை விருது (முதல் பரிசு) அளிக்கப்பட்டது • Awarded a *Certificate of Excellence* for top performing and ranked within 320 participants on a total of 1571 certified participants in the FDP programmes (FDP101x & FDP 201x) conducted by IIT Bombay in the year 2018. • Qualified for National Eligibility Test conducted by Indian council of Agricultural Research (ICAR), New Delhi, India (2001). • Awarded Junior Research Fellow under CSIR-UGC fellowship (2002-2003) for Ph.D. programme completed in Tamil Nadu Agricultural University, Coimbatore, India.

Declaration: I, the undersigned, certify that the above information given in this curriculum vitae is correct and true to the best of my knowledge.

Sd/-

Date: 26-08-2023
Place: Pondicherry

(**V.S. SARAVANAN**)
Asst. Professor
IGCAS