

#### Title of the programme:

The cornerstones of the research process: Unraveling the science of scientific writing and communication

Date: 28<sup>th</sup> to 30<sup>th</sup> April 2022

Resource person

Professor Pitchai Balakumar, Consulting Editor, Pharmacological Research-Elsevier & Professor of Pharmacology, Pannai College of Pharmacy, Dindigul

Total Number of Participants: 46

# **Report on Research Methodology**

Three days National workshop on "The cornerstones of the research process: Unraveling the science of scientific writing and communication" organized by office of Dean Research and IQAC. Professor Pitchai Balakumar has taught on the following topics to the 46 persons who have attended. Workshop conducted from 28<sup>th</sup> to 30<sup>th</sup> April 2022. The Key topics Discussed in this workshop are as follows:

- 1. Cornerstones of the research process.
- 2. Constructing a successful literature search and review using different databases and search engines.
- 3. PubMed/Medline and Scopus search.
- Impact Factor, CiteScore, h-index (Author & Institution), h<sub>m</sub>-index, h5-index, Citations, Self-citations, Field-Weighted Citation Impact, and Citation benchmarking.
- Practical session on basic statistical analysis (Student's t-test, ANOVA, Post-hoc Tukey's multiple comparison test, Dunnett's multiple comparison test, and Bonferroni multiple comparison test, etc.).
- Art and science of scientific writing: Effectively writing the components of a Research Paper/Thesis, including Title, Abstract, Introduction, Results, Discussion and Conclusion sections.
- 7. Harvard and Vancouver Referencing styles (AMA, APA, MLA, NLM styles).
- 8. Web of Science, ISI, SCI, SCIE, SSCI, ESCI, Journal Citation Reports-JCR, Clarivate analytics Journal Impact Factor (current), and Selection of a scientific Journal.
- 9. Working with journals: Cover letter, Conflict of interest, peer reviewing, responding to reviewers, Publication process, *etc*.
- 10. Ethics in scientific publications.

# List of Participants:

S.No	Name of the Participants	Place
1.	Ms. Sophia M	Research Scholar / social Work
2.	Mr. Mugilraj P T	Research Scholar / Management Studies
3.	Mr. Karthic Subramaniyan I	Research Scholar /Mechanical Engineering
4.	Mr. R. K. Muthuraman	Research Scholar / Mechanical Engineering
5.	Ms. Epistle I	Asst. Prof./ Computer Science and Applications
6.	Dr.D.Jeyasimman	Associate Professor / Mechanical Engineering
7.	Ms.P.Latha	Asst. Prof. / Civil Engineering
8.	Dr.C.Soundar Raju	Asst. Prof., Department of Botany, Vivekananda College, Madurai
9.	Dr.S.Janani	Associate Professor / ECE, PMIST
10.	Mr. Jai Edilbert P	Research Scholar / social Work
11.	Dr.T. Shri Vijaya Kirubha	Professor, Periyar College of Pharmaceutical Sciences, Tiruchirappalli
12.	Ms.S.Manjula	Asst. Prof. / Software Engineering, PMIST
13.	Dr.S.Shakila Banu	Associate Professor, Periyar College of Pharmaceutical Sciences, Tiruchirappalli
14.	Mr. G.Thirumal Murugan	Asst. Prof. / Civil Engineering,PMIST
15.	Dr.R.Sathish Kumar	Asst. Prof. Department of Botany, Jamal Mohamed College (Autonomous) , Tiruchirappalli
16.	Dr. R. Jayanthi	Professor, Civil Engineering
17.	Mr.B Mohanavel	Research Scholar / Physics, PMIST
18.	Ms. N.Anusha	Asst. Prof./ Mathematics, PMIST
19.	Ar. K. Ashwin Prakash	Asst. Prof./ Architecture, PMIST
20.	Dr.S.Kumaran	Associate Professor / Biotechnology
21.	Dr. K. Geetha	Asst. Prof./ Nanotechnology Division -ECE
22.	Mr.M.Vijay Balaji	M.Sc, Physics, PMIST
23.	Mr.M.Sriram	M.Sc, Physics, PMIST
24.	Dr.C.Narmadha	Associate Professor/ ECE, PMIST
25.	Mr. U. Saravanakumar	Asst. Prof./ ECE
26.	Mr.P.Ilangovan	Asst. Prof./ CSE

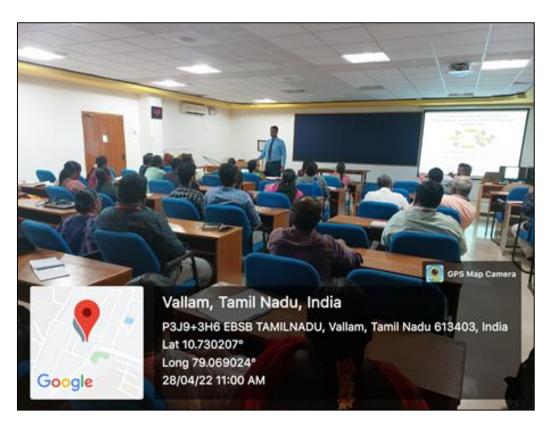
27.	Dr. M. Sundaramoorthy	Asst. Prof./ Rajah Serfoji Govt. College (Autonomous), Thanjavur
		(Autonomous), manjavu
28.	Dr.K.Mohanasundaram	Professor / Education, PMIST
29.	Ms. Nidhishree M	Research Scholar / Chemistry, PMIST
30.	Dr.K.Lakshmi	Professor / Computer Science and Engineering, PMIST
31.	Mr.M.Prem Sundar	Research Scholar / NIT-TRICHY
32.	Mr.M.Harikumaran	Research Scholar/ Mathematics, PMIST
33.	Dr.K.Kesavan	Asst. Prof. & Head / Physics, PMIST
34.	Dr.K.Anbarasu	Asst. Prof./ Biotechnology, PMIST
35.	Mrs.R.Rajayogeswari	Research Scholar / Tamil University, THANJAVUR
36.	Mr.A.Aravindraj	M.Tech, Environmental Engineering, PMIST
37.	Mr. A.Michael John Peter	M.Tech, Environmental Engineering
38.	Dr. V.Hamsadhwani	Associate Professor / EEE
39.	Dr. S. Buvaneswari	Associate Professor / Mathematics
40.	Mrs. R.Vanitha	Asst. Prof./ Software Engineering
41.	Mr. R. Ayyanathan	Sr. Lecturur/ English, Periyar centenary Polytechnic college, Vallam
42.	Ms. V. Poovila	Research Scholar / Mathematics, PMIST
43.	Dr. D. Maheshkumar	Asst. Prof./ Software Engineering, PMIST
44.	Mr. M. Chandrakumar Peter	Asst. Prof./ Software Engg.
45.	Dr.K.Raju	Assistant Librarian
46.	Mr.S.P.Manikandan	Asst. Prof./ Mechanical Engineering

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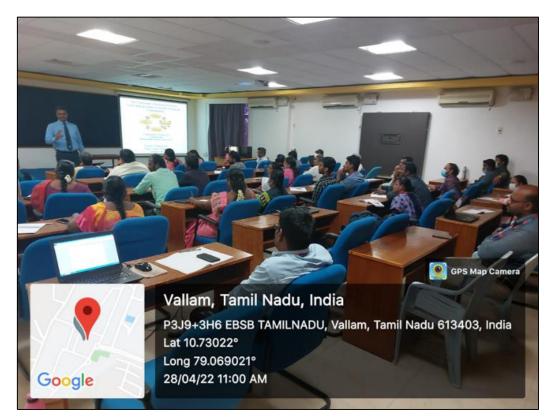
Dean Research, Periyar Maniammal Institute of Science & Technology, (PMIST), Periyar Nagar, Vallam, Thanjavur-613 403, Tamilnadu,



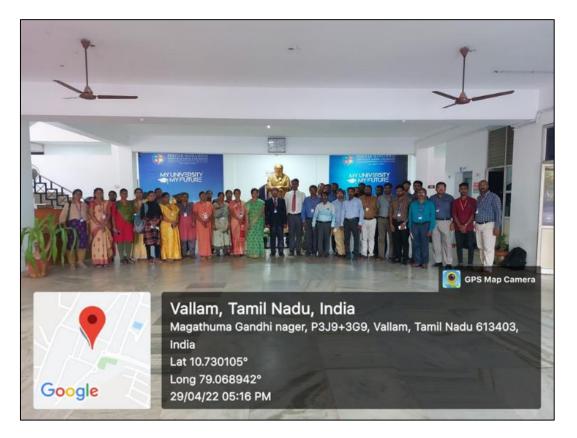
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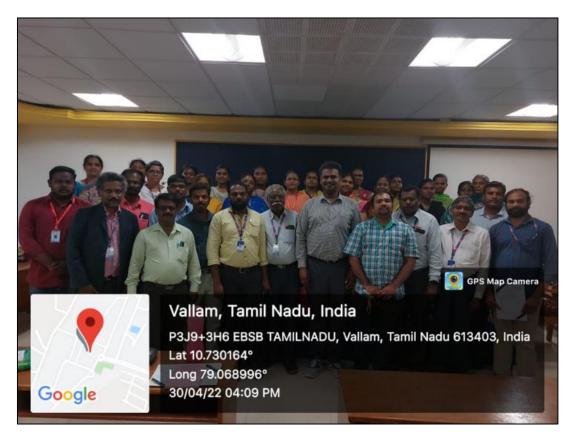
Research Methodology workshop



Research Methodology workshop



Research Methodology workshop



Research Methodology workshop



#### Title of the programme:

Demystifying the Descriptive and Inferential Statistics Employed in Data Analysis

### Date:26.05.2022 to 27.05.2022

#### **Resource person**

Professor PitchaiBalakumar, Consulting Editor, Pharmacological Research-Elsevier & Professor of Pharmacology, Pannai College of Pharmacy, Dindigul

**Total Number of Participants: 43** 

**External Participants: 15** 

**Internal Participants: 28** 

#### **Report on Research Methodology Workshop**

Office of Dean Research and IQAC jointly organized a two days National workshop on "Demystifying the Descriptive and Inferential Statistics Employed in Data Analysis" from 26.05.2022 to 27.05.2022. Professor Pitchai Balakumar, Consulting Editor, Pharmacological Research-Elsevier & Professor of Pharmacology, Pannai College of Pharmacy, Dindigul has discussed on the following topics to the 43 persons who have attended (both internal and external participants).

#### The Key topics Discussed in this workshop are as follows:

- 1. Cornerstones of the research process.
- 2. Constructing a successful literature search and review using different databases and search engines.
- 3. PubMed/Medline and Scopus search.
- 4. Impact Factor, CiteScore, h-index (Author & Institution), h<sub>m</sub>-index, h5-index, Citations, Self-citations, Field-Weighted Citation Impact, and Citation benchmarking.
- 5. Practical session on basic statistical analysis (Student's t-test, ANOVA, Post-hoc Tukey's multiple comparison test, Dunnett's multiple comparison test, and Bonferroni multiple comparison test, etc.).
- 6. Art and science of scientific writing: Effectively writing the components of a Research Paper/Thesis, including Title, Abstract, Introduction, Results, Discussion and Conclusion sections.
- 7. Harvard and Vancouver Referencing styles (AMA, APA, MLA, NLM styles).
- 8. Web of Science, ISI, SCI, SCIE, SSCI, ESCI, Journal Citation Reports-JCR, Clarivate analytics Journal Impact Factor (current), and Selection of a scientific Journal.
- 9. Working with journals: Cover letter, Conflict of interest, peer reviewing, responding to reviewers, Publication process, *etc*.
- 10. Ethics in scientific publications.

#### **External Participants: 15**

- 1. Rajah Serfoji Gov College, Thanjavur 4
- 2. Veterinary College and Research Institute (VCRI), Orathanadu 3
- 3. AVVM Sri Pushpam College, Poondi 5
- 4. Periyar College of Pharmaceutical Sciences, Trichy 2
- 5. National College, Tiruchirappalli 1



Brochure of workshop

# The List of Participants:

Sl. No	Name of the Participant	Designation
1.	Ms. S. Shanmuga Priya	1 <sup>st</sup> Year M.Sc Zoology, Rajah Serfoji Gov College, Thanjavur
2.	Ms. S. Navya	1 <sup>st</sup> Year M.Sc Zoology, Rajah Serfoji Gov College, Thanjavur
3.	Mr. M. Santhosh Kumar	1 <sup>st</sup> Year M.Sc Zoology, Rajah Serfoji Gov College, Thanjavur
4.	Mr. E. Palani Samy	1 <sup>st</sup> Year M.Sc Zoology, Rajah Serfoji Gov College, Thanjavur
5.	Dr.V. Umanath	MVSc - Veterinary Gynaecology and Obstetrics, VCRI, Orathanadu
6.	Dr. K. Ragul	MVSc -Veterinary Gynaecology and Obstetrics, VCRI, Orathanadu
7.	Dr. A. Thamizharasi	MVSc - Veterinary Medicine, VCRI, Orathanadu
8.	Mr. M. Sam Arulraj	Research Scholar, Department of Botany, AVVM Sri Pushpam College, Poondi
9.	Dr. D. Thayalnayaki	Assistant professor (SS) / Civil Engineering, PMIST
10.	Ms. S. J. Princess Rosaline	Assistant professor / Civil Engineering, PMIST
11.	Dr.R.Ananthakumar	Associate Professor, Periyar College of Pharmaceutical Sciences, Trichy
12.	Dr. T. Shri Vijaya Kirubha	Associate Professor, Periyar College of Pharmaceutical Sciences, Trichy
13.	Mr. G. Thirumal Murugan	Assistant professor / Civil Engineering, PMIST
14.	Ms. A. Sangeetha	Assistant professor / Biotechnology, PMIST
15.	Mr. D. Narendra Prasad	Assistant professor / Civil Engineering, PMIST
16.	Dr.S. Janani	Associate Professor / ECE, PMIST
17.	Dr.G.Saravana Vengadesh	Assistant professor / EEE, PMIST
18.	Ms. Preethy K Kumar	Research Scholar, Education, PMIST
19.	Dr.P Vijayalakshmi	Professor / Mathematics, PMIST
20.	Mr. M. Harikumaran	Research Scholar, Mathematics, PMIST
21.	Mr. N Regan Vivegamoorthy	Research Scholar, Department of Physics, AVVM Sri Pushpam College, Poondi
22.	Ms. G Sheeba Sharon	Research Scholar, Department of physics, National College, Tiruchirappalli
23.	Ms. R. Shalini	Research Scholar, Department of Physics, AVVM Sri Pushpam College, Poondi
24.	Ms. S. Suvathi	Research Scholar, Department of Physics, AVVM Sri Pushpam College, Poondi

25.	Ms. K. Gayathri	Research Scholar, Department of Physics, AVVM Sri Pushpam College, Poondi
26.	Dr. S. Kumaran	Associate Professor, Biotechnology, PMIST
27.	Mr. M. Vijay Balaji	Department of Physics, PMIST
28.	Mr. M. Sriram	Department of Physics, PMIST
29.	Ms. D. Jerin Christy	Department of Physics, PMIST
30.	Ms. S. Sai Suruthi	Department of Physics, PMIST
31.	Mr.S. Sakthibalan	Department of Physics, PMIST
32.	Mr. A Michacl Johin Peter	M.Tech Environmental Engineering, PMIST
33.	Ms. M. Nidhishree	Research Scholar, Chemistry, PMIST
34.	Ms. S. Manjula	Assistant Professor / Software Engineering
35.	Dr.A.Manohar	Associate Professor / Chemistry, PMIST
36.	Ar. V.S. Kavitha	Associate Professor / Architecture, PMIST
37.	Ar. K.Jasmine Vidhya	Associate Professor / Architecture, PMIST
38.	Ms.K.Vinothinidevi	Assistant Professor / Commerce, PMIST
39.	Mr. C M Vivek	Assistant Professor / Mechanical Engineering, PMIST
40.	Ms. M Aaithy	1yr Biotech, PMIST
41.	Ms. R Aarthee	1yr Biotech, PMIST
42.	Ms. B Nivedha	1yr Biotech, PMIST
43.	Ms. M. Baghya Lakshmi	1yr Biotech , PMIST

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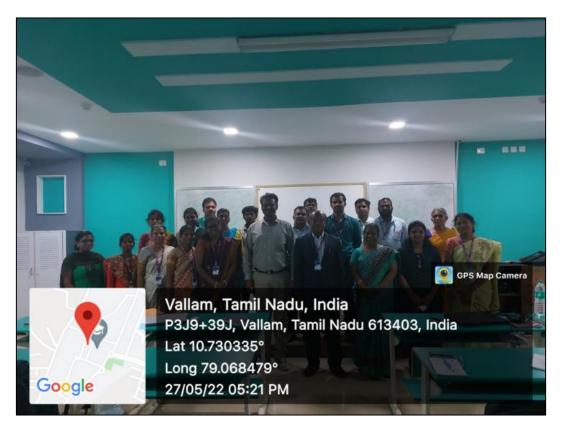
Research Methodology workshops



Research Methodology workshops



Research Methodology workshops



Research Methodology workshops





#### Title of the programme:

Basic concepts of Scientific Research, Publication Ethics and Efficient Scientific Communication

Date:28.05.2022

#### **Resource person**

Professor Pitchai Balakumar, Consulting Editor, Pharmacological Research-Elsevier &

Professor of Pharmacology, Pannai College of Pharmacy, Dindigul

**Total Number of Participants: 56** 

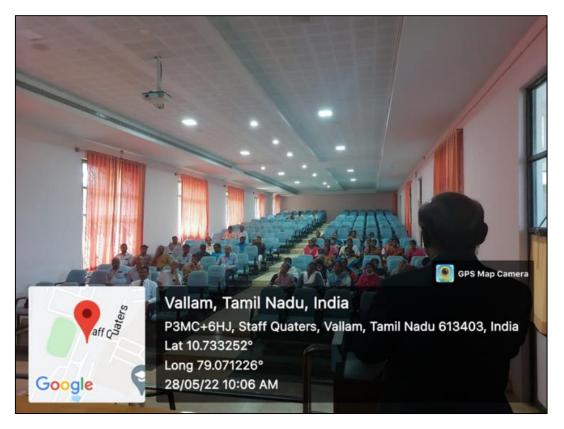
### **Report on Research Methodology Workshop**

## Basic concepts of Scientific Research, Publication Ethics and Efficient Scientific Communication on 28.05.2022

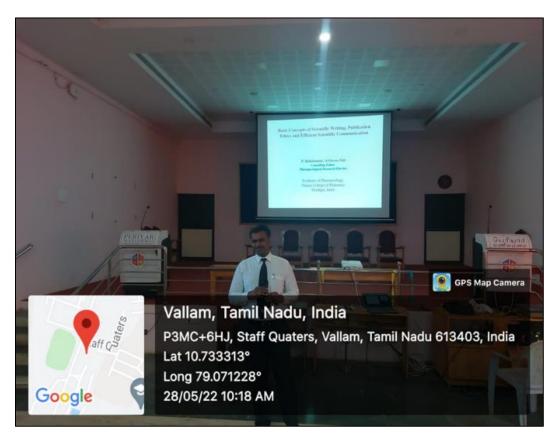
Office of Dean Research and IQAC jointly organized a one day workshop on "Basic concepts of Scientific Research, Publication Ethics and Efficient Scientific Communication "on 28.05.2022. Professor Pitchai Balakumar, Consulting Editor, Pharmacological Research-Elsevier & Professor of Pharmacology, Pannai College of Pharmacy, Dindigul has discussed on the following topics to the 56 persons who have attended (both internal and external participants).

#### The Key topics Discussed in this workshop are as follows:

- 1. Cornerstones of the research process.
- 2. Constructing a successful literature search and review using different databases and search engines.
- 3. PubMed/Medline and Scopus search.
- 4. Impact Factor, CiteScore, h-index (Author & Institution), hm-index, h5-index, Citations, Self-citations, Field-Weighted Citation Impact, and Citation benchmarking.
- 5. Practical session on basic statistical analysis (Student's t-test, ANOVA, Post-hoc Tukey's multiple comparison test, Dunnett's multiple comparison test, and Bonferroni multiple comparison test, etc.).
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- 9. Working with journals: Cover letter, Conflict of interest, peer reviewing, responding to reviewers, Publication process, *etc*.
- 10. Ethics in scientific publications.



Research Methodology workshop



Research Methodology workshop



Research Methodology workshop



Research Methodology workshop

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42.	Dr. K. Solvam	Head Languages	dl8
	pr. B. Ma Lendra Mohan.	AP/ Management	BM. Mh
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53.	Mr. S. Keerthana	Ap/ Biotech	Skeutlang.
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