



D. Ramya
Assistant Professor
Department of Microbiology
The American college
Madurai - 625002
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OBJECTIVE

To work for a reputed institution which demands responsibilities, innovation and creativity where I can prove myself worthy and contributes towards the growth and betterment of the institution.

RESEARCH INTERESTS

- ✚ Environmental Microbiology
- ✚ Medical Microbiology
- ✚ Cancer Biology

EDUCATIONAL CHRONICLE

COURSE	INSTITUTION	Year	% OF MARKS/ CGPA
Ph.D.,in Microbiology	PG and Research Department of Zoology, The American college, Madurai (Affiliated to Madurai Kamaraj University, Madurai)	2021	Completed
M.Phil., in Biotechnology	School of Biotechnology and Health Sciences Karunya University, Coimbatore	2009 – 2011	8.25 (CGPA)
M.Sc., in Immunology and Microbiology	Department of Immunology and Microbiology The American college, Madurai (Affiliated to Madurai Kamaraj University, Madurai)	2007- 2009	75
B.Sc., in Applied Microbiology	Meenakshi Mission Hospital and Research Centre- College (Mother Teresa Women's University, Kodaikanal)	2004 - 2007	78.6

Passed ICAR NET Examination on 12-03-2019.

WORKING EXPERIENCE

From June 2015 working as Assistant Professor in the Immunology and Microbiology Department, The American College, Madurai.

RESEARCH PROJECT

+ Doctor of Philosophy

"Biosorption of Chromium, Nickel and Zinc using chosen Bacterial strains"- Madurai Kamaraj University, Madurai, Tamil Nadu, India.

+ Junior Research Fellow (UGC - Major Research Project)

"Bioremediation of Effluents from Electroplating Industries using Chosen Bacteria and its associated clinical complication"-PG and Department of Zoology, The American College, Madurai, Tamil Nadu, India.

+ Master of Philosophy

Study on the *"Effect of ATRA on Benzo(a)pyrene Induced Lung Metastasis and Associated Parameters"*.-School of Biotechnology and Health Sciences, Karunya University, Coimbatore, Tamil Nadu, India.

+ Master of Science

Study on *"Oral Candidiasis, Susceptibility to Dental Caries, Scalp Infection and Probiotic Activity against the Isolates among the Leprosy Patients"*- Department of Immunology and Microbiology, The American College, Madurai, Tamil Nadu, India.

+ B. Sc dissertations guided: 01

+ M.Sc students under guidance: 14

Project titled *"Biodegradation of petrol using chosen bacterial strains"* was awarded Student Project Scheme - 2017-18. TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY (TNSCST).

Book Chapter Publication

- + **D. Ramya**, N. Jennifer Michellin Kiruba and A. Joseph Thattheyus (2020). Biosorption of heavy metals using fungal biosorbents _ A review. Volume 2: Extremophilic Fungi and Myco-mediated Environmental Management, Elsevier, Academic Press, ISBN: 978-0-12-821925-6, pp 331-352.

PUBLICATIONS

- ✚ **D.Ramya** and A.J.Thatheyus, S. Jemima Balaselvi Juliana, N. Jennifer Michellin Kiruba and and Deborah Gnana Selvam (2022). Physical characterization and kinetic studies of Zn (II) biosorption by *Morganella morganii* ACZ05. Water Science & Technology Vol 85 No 4, 970.

- ✚ **D.Ramya** and A.J.Thatheyus (2019) Biosorption of Zinc from Aqueous Solution by the Bacterial Strain, *Morganella morganii* ACZ05. **Asian Journal of Biological Sciences**. 12:869-876.

- ✚ **D. Ramya** and A. Joseph Thatheyus (2018). Microscopic investigations on the biosorption of heavy metals by bacterial cells: A Review. Science International. 6: 11-17.

- ✚ A. Joseph Thatheyus and **D. Ramya** (2016). Review Article Biosorption of Chromium Using Bacteria: An Overview. Science International. 4(2): 74-79.

- ✚ M. Senthil Kumar, A. Joseph Thatheyus and **D. Ramya** (2016). Biotreatment of Sewage using the Amazon Sailfin Catfish, *Pterygoplichthys pardalis*. *Academic Journal of Life Sciences*, Vol. 2, No. 7, pp: 41-49.

- ✚ **D. Ramya**, M. Andrew Pradeep and Sreya Johnson (2016). Screening of scalp infection and antifungal activity of commercially available shampoo against the isolates among the leprosy patients, *Acta Velit*.3 (2): 50 – 55.

- ✚ Bishmi, A. Joseph Thatheyus, **D. Ramya** (2015). Biodegradation of Poultry Feathers using a Novel Bacterial Isolate *Pseudomonas aeruginosa* International Journal of Research Studies in Microbiology and Biotechnology (IJRSMB). 1(1):25-30.

- ✚ T. Shenbagavalli, A. Joseph Thatheyus and **D.Ramya** (2015). Biodegradation of dimethylamine using *Pseudomonas aeruginosa* *Bulletin of Advanced Scientific Research*. 1:3

- ✚ A. J. Thatheyus, A. A. Khaja, S. S. Prabu and **D. Ramya** (2015). Biodecolorization of Chosen Dyes Using *Pseudomonas aeruginosa* and *Flavobacterium Sp.* J Environ. Science & Engg. 57(2): 137-144.

- ✚ M. V. Devika¹, A. J. Thatheyus¹ and **D. Ramya** (2014) Bioremoval of Nickel Using *Pseudomonas aeruginosa*. *Annual Research & Review in Biology*. 4(3): 538-546.
- ✚ M. Vanishree, A. J. Thatheyus and **D. Ramya** (2014). Biodegradation of Petrol Using *Aspergillus sp.* *Annual Research & Review in Biology*, 4(6): 914-923.
- ✚ M. Vanishree, A. J. Thatheyus and **D. Ramya** (2014). Biodegradation of Petrol using the Fungus, *Penicillium sp.* *Science International* 2(1):26-31.
- ✚ K.V.Darsa, A. J. Thatheyus and **D. Ramya** (2014). Biodegradation of Petrol using the Fungus, *Bacillus subtilis*. *Science International* 2(1): 20 – 25.
- ✚ Kamala Pandian, A.J. Thatheyus and **D.Ramya** (2014). Bioremoval of Chromium, Nickel and Zinc in Electroplating Effluent by *Pseudomonas aeruginosa*. *Open Journal of Water Pollution and Treatment* 1:75-82.
- ✚ M. Sankarammal, A.J. Thatheyus and **D. Ramya** (2014) Bioremoval of Cadmium Using *Pseudomonas fluorescens*. *Open Journal of Water Pollution and Treatment* 1:92-100.
- ✚ S. Bavithra Devi, **D. Ramya**, M. Andrew Pradeep, T.R. Prabha (2014). A study on Oral Candidiasis and probiotic activity against the isolates among the Leprosy patients. *American Journal of Bio-Pharmacology Biochemistry and Life Sciences (AJBBL)*.
- ✚ Betty Anita, A.J. Thatheyus and **D.Ramya** (2013) Biodegradation of Carboxymethyl Cellulose using *Aspergillus flavus*. *Science International*. 1:85-91.
- ✚ R.S.Akram Husain, A.J.Thatheyus and **D.Ramya** (2013) Bioremoval of Nickel Using *Pseudomonas fluorescens*. *American Journal of Microbiological Research*. 1: 48-52.
- ✚ S.Muthuraman, K.Natarajan, S.Srinivasan, A.J.Thatheyus and **D.Ramya** (2013). Bacterial resistance to chosen heavy metals. *ESAIJ*, 8(12): 475-480. *ISSN: 0974 – 7451*.
- ✚ **D. Ramya.**, Siddikuzzaman, A. Manjamalai and V.M. Berlin Grace (2012). Chemoprotective Effect of All Trans Retinoic Acid on Oxidative Stress and Lung Metastasis Induced by Benzo (a) Pyrene. *Immunopharmacology and Immunotoxicology*, 2012; 34(2): 317–325. (Impact factor 1.829).
- ✚ **D. Ramya.**, Siddikuzzaman and V. M. Berlin Grace (2012). Effect of All-Trans Retinoic Acid (ATRA) on Loss of Syndecan- 1 Expression in Benzo(a)Pyrene-Induced Lung Metastases in Mice. *Journal of Immunopharmacology and Immunotoxicology*. 2012. (Impact factor 1.829).

- ✚ **D. Ramya** and M. Andrew Pradeep (2012). **A study on susceptibility to dental caries, & probiotic activity against the isolates among the leprosy patients.** J. Food Process. Technol. 3:10. <http://dx.doi.org/10.4172/2157-7110.S1.009>.

- ✚ B.Durga Devi, A.J.Thatheyus and **D.Ramya** (2012). Bioremoval of hexavalent chromium using *Pseudomonas fluorescens*. J.Microbiol.Biotech.Res. 2:727-735.

- ✚ **D. Ramya.**, Siddikuzzaman, A. Manjamalai and V.M. Berlin Grace (2011). Physiologic Effect of All Trans Retinoic Acid (ATRA) on Vital Organ Damage and Lipid Profile in Benzo(a)Pyrene induced Lung Metastasis. Journal of Pharmaceutical and Biomedical Sciences (JPBMS) 10(05):10. ISSN NO: 2230-7885.

BOOK PUBLICATIONS

Sl.N	Authors	Title of the Book/Proceedings	ISBN No	Publisher/Organizer
1.	D. Ramya and M.Andrew Pradeep (2012)	Study on Susceptibility to Dental Caries and Probiotic Activity against the Isolates among the Leprosy Patients In: "Perspective of Biotechnology- Hitherto and Henceforth,"	ISBN: 978-81-90864-91-6	Venture Institute of Biotechnology and Bioinformatics Research, Madurai, India, pp 34-42
2.	A.J.Thatheyus and D.Ramya (2012)	Microbial Biosorption: A Solution for Heavy Metal Pollution In: "Perspective of Biotechnology- Hitherto and Henceforth,"	ISBN: 978-81-90864-91-6	Venture Institute of Biotechnology and Bioinformatics Research, Madurai, India, pp 34-42
3.	C.Devika, D. Ramya and A.J. Thatheyus (2012)	Biodegradation of chlorpyrifos using <i>Pseudomonas aeruginosa</i> . In: Proceedings of the International Conference on "Science and Technology for Clean and Green Environment.	(ISBN: 978-93-80174-05-1)	Zoology Wing, Annamalai University, Annamalainagar, Tamil Nadu, India. pp 78-81.
4.	D. Ramya and A.J. Thatheyus (2012)	Thirumalai Nayak Mahal and Microbial Air Quality UGC Sponsore National Seminar on Preservation of Monuments to Enhance Tourism in India	-	Jayaraj Annapackiam College for Women, Periyakulam. Pp242-257

4.	G. Samuel, A.J. Thatheyus and D. Ramya (2012)	Biological Treatment of Synthetic Fibre Effluent using Saw Dust	-	Jayaraj Annapackiam College for Women, Periyakulam. pp 61-68.
5.	D. Ramya and A.J. Thatheyus (2013)	Genetically Modified Foods-Safety Issues. In: Food Security Issues and Concerns	(ISBN: 978-93-80657-84-4)	Shanlax Publications, Madurai, India. pp 302-311
6.	D. Ramya and A.J. Thatheyus (2013)	Bacterial Food Poisoning. In: Food Security Issues and Concerns	(ISBN: 978-93-80657-84-4)	Shanlax Publications, Madurai, India. pp 332-341.
7.	C. Devisree, A. J. Thatheyus and D. Ramya (2013)	Monocrotophos Degradation by <i>Micrococcus luteus</i> Supplemented with various Carbon Sources and the HPLC analysis of Degradation Products	(ISBN 978 - 81 - 928661 - 0 - 9)	Frontier Vistas in Modern Biotechnology. The American College, Madurai, India.p 6
8.	J. Jesuran Edward Durai, A.J. Thatheyus and D. Ramya (2012)	Biological treatment of dye effluent using saw dust	(ISBN 978-93-82323-26-6)	Global Opportunities for Recent developments in Science and Technology. Rev. Jacob Memorial Christian College, Tamil Nadu.

Guest/Invited talk

- ✚ Invited talk on radio -“Benefits of Microorganisms to Human” at the **Science Programmes - Air Madurai** organized by All India Radio held on 2018.
- ✚ Invited talk on radio -“Vaccine” at the **Science Programmes - Air Madurai** organized by All India Radio held on 2019.

WEBINAR PARTICIPATION

- ✚ Participated in the webinar on “Women at Risk Blossom” organized by Ladies Club of The American College, Madurai (9 th May 2020).
- ✚ Participated in the webinar on “Self Awareness and Social Responsibility during Covid 19 Pandemic” organized by Ladies Club of The American College, Madurai (13 th May 2020).
- ✚ Participated in the webinar on “American College Chemistry webinar series - 1” organized by the Department of Chemistry, The American College, Madurai (15 & 16 May 2020).

- ✚ Participated in the International webinar on “Biodiversity” organized by the PG and Research Department of Zoology, The American College, Madurai (22 May 2020).
- ✚ Participated in the webinar on “Women at Risk Blossom” organized by Ladies Club of The American College, Madurai (27 th May 2020).
- ✚ Participated in the National virtual Seminar on “INSIGHTS OF NEW HUMAN INVADER: SARS-COV-2” organized by Department of Microbiology, School of life sciences, VISTAS, Pallavaram, Chennai (12 th June 2020).

SCIENTIFIC CONFERENCE PRESENTATION/PARTICIPATION

- ✚ *D. Ramya* and A. J. Thatheyus, presented a paper on “Physico-chemical characteristics of electroplating industrial effluent.” at the National conference on Recent Trends in Biological Sciences organized by the Department of Zoology held on 3 February 2020 The American College, Madurai. 2.
- ✚ *D. Ramya* and A. J. Thatheyus, presented a paper on “**Zinc (II) sequestration by *Morganella morganii* ACZ05: Mechanism and Chemical characterization.**” 1st International conference on Recent Trends in Clean Technologies for Sustainable Environment organized by Department of Chemical Engineering held on 26 & 27 September 2019 SSN College of Engineering, Kalavakkam Chennai- 603110. Won the best paper award.
- ✚ **J. Thatheyus** and *D. Ramya* presented a paper on “Biosorption of nickel by live, immobilized and dead cells of *Providencia stuartii* ACZ03 from aqueous solution.” 1st International conference on Recent Trends in Clean Technologies for Sustainable Environment organized by Department of Chemical Engineering held on 26 & 27 September 2019 SSN College of Engineering, Kalavakkam Chennai- 603110.
- ✚ *D. Ramya* participated in the International Symposium on “Biomedical Research Challenges & Opportunities.” organized by the Research Advisory Committee, Fatima College (Autonomous), Madurai on 07.02.2018.
- ✚ *D. Ramya* and A. J. Thatheyus, presented a paper on “Biosorption of Hexavalent chromium using live, immobilized and dead cells of *Pseudomonas aeruginosa* ACZ01.” TNSCST sponsored National seminar on Emerging Trends in Life organized by Jayara Annapackiam College for Women, Periyakulam (9th January, 2018).

- ✚ D. Ramya and A.J. Thatheyus presented a paper on **“Successful implication of Spirulina as an effective antidiabetic agent –A review”** National Seminar on Recent Advances in Biological Science organized by Department of Biochemistry and Microbiology held on 22nd September 2017 Sourashtra College, Madurai.

- ✚ D. Ramya and A.J. Thatheyus presented a paper on **“Biosorption of nickel using bacterial biosorbents: An Overview”** National Seminar on Recent Advances in Biological Science organized by Department of Biochemistry and Microbiology held on 22nd September 2017 Sourashtra College, Madurai.

- ✚ M. Andrew Pradeep, G. Dhivya, D. Ramya and R. Sethu Nagarajan presented a paper on **“A Study on Immunomodulatory Effect of *Justicia gendarussa* (Burm) and *Cardiospermum halicabum* (Linn)”** National Seminar on Marine Resources held on 3rd & 14th March, 2016 at M. D. T. Hindu College, Tirunelveli.

- ✚ S. Balaji, A.J. Thatheyus and D. Ramya, presented a paper on **“biotreatment of electroplating industrial effluent using coconut husk”** UGC sponsored National Conference on Biological Sciences: The Amalgamation and Advancement of Multidisciplinary Life Sciences held on 18th & 19th December, 2014 at V.V.Vanniaperumal College for Women, Virudhunagar

- ✚ J. Jesuran Edward Durai, A.J. Thatheyus and D. Ramya, presented a paper on **“Biological treatment of dye effluent using saw dust” on Proteofest 2014**, National Seminar on Global Opportunities for Recent Developments in Science and Technology sponsored by CSIR organized by Rev. Jacob Memorial Christian College, Ambilikai, Tamilnadu. (8th February, 2014).

- ✚ Kamala Pandian, A. J. Thatheyus and D. Ramya, presented a paper on **“Bioremediation of chromium, nickel and zinc in electroplating effluent by *Pseudomonas aeruginosa*”** on National conference on Heavy Metals in the Environment organized by School of Environmental Sciences, Mahatma Gandhi University, Kottayam (28 – 30 November, 2013).

- ✚ M. Sankarammal, A. J. Thatheyus, R. Poun Prasath Gowtham and D. Ramya, presented a poster on **“Bioremoval of cadmium using *Pseudomonas fluorescens*”** on HME 2013, National conference on heavy metals in the environment, School of

Environmental Sciences, Mahatma Gandhi University, Kottayam (28 – 30 November, 2013).

- ✚ **D.Ramya** and A. J. Thatheyus, presented a paper on **Biosorption of chosen heavy metals using *Bacillus subtilis* and *Pseudomonas spp.*** National conference on Recent Advancements in “Adsorption Science & Technology organized by the Department of Chemical Engineering, SSN College of Engineering, Chennai on 02nd August 2013.
- ✚ G. Samuel, A.J. Thatheyus and **D. Ramya**, presented a paper on “**Biological treatment of synthetic fibre effluent using saw dust**” at the National Seminar on New Frontiers in Biology sponsored by UGC organized by Jayara Annapackiam College for Women, Periyakulam (18th and 19th December, 2012).
- ✚ B. Betty Anita, A.J. Thatheyus and **D. Ramya**, presented a paper on “**Biodegradation of carboxymethyl cellulose using *Aspergillus flavus***” on “Microciencia-2012,10th IAAM National Conference on Exploring the potentials of Microbes for Bioscience, Biotechnology and Medicine (17th and 18th December, 2012) organized by SRM university, Chennai.
- ✚ G.E. Rani, A.J. Thatheyus and **D. Ramya**, presented a poster on “**Response of the Filarial Vector Mosquito, *Culex quinquefasciatus* to Selected Synthetic and Natural Repellents**” at the 6th conference of Medical Arthropodology organized by Centre for Research in Medical Entomology, Madurai, Tamil nadu, India (18-19 October, 2012).
- ✚ C.Devika, **D. Ramya** and A.J. Thatheyus, presented a paper on “**Biodegradation of Chlorpyrifos using *Pseudomonas aeruginosa***” at the International Conference on “Science and Technology for Clean and Green Environment” (STCGE – 2012) Organized by Annamalai University, Annamalinagar, Tamil Nadu, India (27th and 28th July, 2012).
- ✚ **D.Ramya**, Pradeep M. Andrew, Aarthy. K, presented a paper on “Study on Oxidative Stress Associated Lipid Peroxidation among Breast Cancer Patients” at the **5th Congress of the Federation of Immunological Societies of Asia Oceania**, AIIMS, New Delhi, India. (14 – 17 march, 2012).
- ✚ A. J. Thatheyus and **D. Ramya**, presented a paper on “Microbial Biosorption: A Solution for Heavy Metal Pollution” at the State Level Inter-Collegiate Student’s Seminar on **Recent Challenges in Biotechnology** organized by the Department of

Immunology and Microbiology, The American College, Madurai. (17th February 2012).

- ✚ **D.Ramya** and A. J. Thatheyus, presented a paper on “Thirumalai Nayak Mahal and Microbial Air Quality” at the National Seminar on **Preservation of Monuments to Enhance Tourism in India** held organized by Jayara Annapackiam College for Women, Periyakulam (8th and 9th Feb, 2012).
- ✚ B. Durga Devi, A. J. Thatheyus and **D. Ramya**, presented a paper on “Bioremoval of Hexavalent Chromium Using *Pseudomonas fluorescens* and *Pseudomonas oleovorans*” at the National level biological congress on **Bioscientific Technologies; A Panacea for Human Health and Social Welfare**” organized by the Department of Biological Science, Muthayammal College of Arts and Science, Rasipuram (January 6th and 7th, 2012).
- ✚ **D.Ramya** and M. Andrew Pradeep, presented a paper on “**Study on susceptibility to dental caries & probiotic activity against the isolates**” at the **National level technical symposium** conducted by Department of Biotechnology, Government college of technology, Coimbatore (March 14th and 15th, 2010).
- ✚ M.Andrew Pradeep, A. Manja Malai and **D. Ramya**, presented a paper – “Impact of renal dysfunction among cancer patients receiving chemotherapy” at the international conference on Nano - Medicine & Recent Advances in Ophthalmic Research organized by the ‘**Kamalnayan Bajaj Institute for Research in Vision and Ophthalmology**’ Vision Research Foundation, Chennai, Tamil Nadu, India (3-5 sep 2008).
- ✚ Participated in International Science Symposium on **HIV and Infectious Diseases** organized by YRG Care, CSIR campus, Chennai (20 - 22th January 2012).
- ✚ Participated in National Conference on “**Oxidative Stress and its Complications in Human Health**”, NCOSH - 2011 organized by Department of Biotechnology, School of Biotechnology and Health Sciences, Karunya University, Coimbatore (19th - 20th, January 2011).
- ✚ Participated in National seminar on “**Role of Immunomodulators in Cancer Therapy**”. Organized by Department of Biotechnology, School of Biotechnology and Health Sciences, Karunya University, Coimbatore (11th and 12th October, 2010).

- ✚ Participated as delegate in the DST - NIMAT sponsored “**Entrepreneurship Awareness Camp**” Department of Biotechnology, School of Biotechnology and Health Sciences, Karunya University, Coimbatore (February 25th to 27th, 2010).
- ✚ Participated in International Conference on **Genetic & Molecular Diagnosis in Modern Medicine** organized by Kamineni education society, Hyderabad (7th to 9th January 2008).
- ✚ Participated in National seminar on **Modern Trends in Biosciences** at Yadava College, Madurai (12th March 2007).

WORKSHOP / TRAINING PARTICIPATED

S.NO	NAME OF THE PROGRAMME/WORKSHOP	ORGANIZATION/INSTITUTION/ LABORATORY	DURATION
1.	the workshop on “Microbial Biofilms	School of Chemical and Biotechnology, SASTRA University, Thanjavur 613401	13 to 14 December 2019.
2.	Training programme in the Division of Technology Business Incubator, Atomic Absorption Spectrophotometer	Vellore Institute of Technology (Sponsored by Department of Science and Technology, New Delhi)	13 th to 14 th August, 2013
3.	Workshop on Remediation’s for clean and Green environment	Department of Chemical Engineering National institute of Technology, Tiruchirappalli	30 th November to 1 st December ,2012
4.	DST-NRDMS Sponsored Summer Training Programme on Geospatial Technologies and Applications	Department of Futures Studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai	8 th to 28 th May, 2012
5.	Training programme in the Division of Microbiology and Molecular Biology	National Jalma Institute for Leprosy and other Mycobacterial Diseases (ICMR), Agra	20 th June – 5 th July 2009.
6.	Training programme in the Division of Histopathology	Bose Clinical laboratory & X-rays, Madurai	26 th December 2009 to 05 th January 2010
7.	Summer training programme in the Division of Cancer Research	Regional Cancer Centre, Thiruvananthapuram	05 th to 19 th May,2008
8.	Laboratory services	Meenakshi Mission Hospital and Research Centre, Madurai	January to March, 2007

Administrative /Academic Position/s (held / currently holding):

Positions held / currently holding	Year - From (month/year) To month/year)
Superintendent, Women's Hall	2013 -2015

Member Board of studies

- ✚ DMLT – The American College – Community College, Madurai.

Served as external examiner

- ✚ MANNAR THIRUVIALAI NAICKER COLLEGE
- ✚ THIAGARAJAR COLLEGE

Membership in Professional Bodies:

- ✚ Indian Immunological Society

Awards / Fellowships:

- ✚ FIMSA awards for registration fellowship of Rs.6500/-

TECHNICAL SKILLS

- ✚ **Techniques Known-** Atomic Absorption Spectrophotometry and Histopathological techniques
- ✚ **Computer Knowledge** - MS-Office, Tally 7.2

REFERENCES

1. Dr. A. Joseph Thatheyus
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