

CURRICULUM VITAE

Dr. D. KARTHIKEYAN, M.Sc., Ph.D.,

Medical Microbiology

Director (In-charge)

School of Allied Health Sciences

Vinayaka Mission's Medical College & Hospital Campus

Vinayaka Mission's Research Foundation (Deemed to be University)

Karaikal – 609609, Puducherry, India



Associate Professor

Department of Medical Microbiology

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PERSONAL DETAILS

Date of Birth	18 October 1988
Gender	Male
Nationality	Indian
Marital Status	Married
Blood Group	B Positive

I. EDUCATIONAL QUALIFICATIONS

Sl. No	Degree	Subject	University / Institution	Year
1	B.Sc.	Microbiology	Thiruvalluvar University	2009
2	M.Sc.	Medical Microbiology	Chettinad Hospital & Research Institute	2012
3	Ph.D.	Medical Microbiology	Vinayaka Mission's Research Foundation (DU)	2020

II. EXPERIENCE (After Post Graduation)

Sl. No	Institution	Designation	Period	Duration	Nature of Experience
1	School of Allied Health Sciences, VMMCH	Director (In-charge)	June 2026 – Till Date	Present	Academic Administration, Allied Health Sciences Education,

	Campus, Karaikal				NCAHP Curriculum Implementation
2	Department of Medical Microbiology, VMMCH	Associate Professor	April 2026 – Till Date	Present	Teaching, Research, Administration
3	Takshashila Medical College	Associate Professor & Research Coordinator	September 2025 – April 2026	7 Months	Teaching, Research Administration, Central Research Laboratory Development
4	Department of Medical Microbiology, VMMCH	Assistant Professor	2019 – September 2025	Nearly 5 Years	Teaching MBBS, Allied Health Sciences, Research
5	Department of Medical Microbiology, VMMCH	Tutor	2012 – 2019	Nearly 8 Years	Undergraduate Teaching

Total Teaching Experience

More than 13 Years 10 Months

III. ADMINISTRATIVE RESPONSIBILITIES

- Director (In-charge), School of Allied Health Sciences
 - Associate Professor, Department of Medical Microbiology
 - Research Coordinator
 - In-charge, Central Research Laboratory
 - Consultant Microbiologist
 - Laboratory Director
 - Quality Manager
 - Academic Coordinator
 - Institutional Ethics Committee Member
 - Medical Education Unit Member
 - COVID-19 RTPCR Nodal Officer (ICMR)
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IV. CONTRIBUTIONS TO ALLIED HEALTH SCIENCES EDUCATION

Academic Administration

- Leading the School of Allied Health Sciences as Director.
 - Coordinating implementation of National Commission for Allied and Healthcare Professions (NCAHP) curriculum.
 - Development of competency-based teaching and learning strategies.
 - Curriculum planning.
 - Academic quality assurance.
 - Student mentoring.
 - Faculty development initiatives.
 - Conducting academic reviews.
 - Academic governance.
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V. LEADERSHIP ACHIEVEMENTS

Established

- Central Research Laboratory (VMMCH)
 - Molecular Virology Laboratory
 - NABL Accredited Molecular Laboratory and Central Laboratory
 - COVID-19 RTPCR Laboratory Establishment and ICMR approval
 - Direct Microscopy Centre under RNTCP in VMMCH
 - PPP ICTC Centre in VMMCH
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Quality Initiatives

- NABL Accreditation for 4 laboratories (VMMCH, Avini Labs, Medlabs and St. Peters Hospital)
 - Quality Management System implementation
 - SOPs and Documentation system development for Central Research Lab, Molecular Virology Lab, Microbiology Lab and Central Lab
 - Internal Quality Control Processing and Managements
 - External Quality Assurance Scheme initiations
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Academic Leadership

- Director of SAHS
 - Academic Coordinator
 - Research Coordinator
 - Laboratory Administration
 - Student Mentoring
 - Faculty Mentoring
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VI. RESEARCH EXPERIENCE

Research Areas

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|--------------------------------|--------------------------|
| • Respiratory Viral Infections | • Biofilm Research |
| • Respiratory Syncytial Virus | • Molecular Epidemiology |
| • Molecular Diagnostics | • Respiratory Microbiome |
| • Clinical Microbiology | • Biomarkers |
| • Antimicrobial Resistance | • Infectious Diseases |
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PhD Research

The Study of Bacterial Co-infection in Respiratory Syncytial Virus (RSV) Patients

M.Sc Dissertation

Study of Biofilm Producing Bacteria Isolated from Invasive Devices

PhD Guidance

Presently guiding PhD scholars in

- Respiratory Microbiome
 - Biomarkers in Respiratory Tract Infections
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VII. RESEARCH PROJECTS

- Profiling of Respiratory Microbiome in patients with Chronic Lung Disease – PhD Scholar under my guidance - Ongoing
 - A Study to Validate Differential Biomarkers of Bacterial and Viral Etiology in Respiratory Tract Infection – PhD Scholar under my guidance - Ongoing
 - “The study of bacterial co-infection on Respiratory Syncytial Virus (RSV) patients” as research work in Ph.D for the period of four years from Jan-2015 to Dec-2018
 - “The study of biofilm producing bacteria isolated from invasive devices” as Major project in Postgraduate for the period of one year from Jan-2011 to Dec-2011.
 - “Detection of Chlamydia trachomatis by Realtime PCR” in 2019 along with Postgraduate in OG, VMMCH
 - “Detection of Progin gene polymorphism in Uterine fibroid patients” from 2018 to 2022 along with Associate Professor in Biochemistry, VMMCH
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VIII. LABORATORY DEVELOPMENT

Instrumental in establishing

- Central Research Laboratory
 - Molecular Virology Laboratory
 - NABL Molecular Laboratory
 - COVID RTPCR Laboratory
 - Quality Management Systems
 - Laboratory Documentation
 - Molecular Diagnostic Services
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IX. PUBLICATIONS

Research Publications

Total Publications : 22

(Complete publication list to be annexed)

X. TECHNICAL EXPERTISE

Molecular Biology

- PCR
- Nested PCR
- RT-PCR
- qPCR
- ddPCR
- DNA Sequencing
- NGS
- SNP Analysis
- RFLP
- FISH

Clinical Laboratory

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- ELISA
- CLIA
- Turbidometry
- Nephelometry
- Culture
- Antimicrobial Susceptibility Testing

Bioinformatics

- SPSS
- G*Power
- Microsoft Office
- Artificial Intelligence Applications in Research

XI. TRAINING PROGRAMMES

Successfully completed

- Basic Course in Medical Education (BCME)
 - Curriculum Implementation Support Programme
 - Proteomics Workshop
 - Immunology Training
 - Molecular Diagnostics
 - Quality Management System
 - Medical Education Workshops
 - Bioethics
 - Good Clinical Practice
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XII. SEMINARS, CONFERENCES & WORKSHOPS

- **Basic Course in Medical Education (BCME)** conducted by NMC Nodal Centre JIPMER from 21-23 July 2025
- **Curriculum Implementation Support Program(CISP) – III** in Medical Education conducted by NMC Nodal Centre JIPMER from 24-25 July 2025
- **Total Quality Management & Emphasizing on Risk – Medical Labs** – Training program organized by Knowledge centre, IQAS on 19th July 2025
- Workshop on **Fundamental Techniques in Proteomics** organized by Centre for Molecular Medicine, Yenepoya Research Centre, Mangalore from 29-31 May 2025
- **Comprehensive Molecular Diagnostics and Advanced Gene Expression** Analysis conducted by NPTEL completed with 73% Score.
- Completed a 24 days Training course on **Harnessing The Power of Immunology** in 15th May to 10th June 2023 conducted by ICMR-NIRRH, Mumbai funded by DHR
- Participated state level symposium on **“Application of Molecular Techniques in Clinical Diagnosis and Research”** in 2009 conducted by Dept. of Microbiology, CHRI.
- Participated in and completed the 24 days hands-on workshop on **“Techniques in Molecular Medicine”** in 2013 conducted by Moving Academy of Medicine and Biomedicine, Pune. (ICMR funded)
- Participated and completed a training program on **“Screening of Acid fast Bacilli”** in 2015 conducted by State TB reference laboratory, Pondicherry.
- Participated in and completed the hands-on workshop on **“Techniques in Genetics”** in 2018 conducted by SDUAHER, Kolar. (Department of Health Research funded)
- Organized and Participated in Workshop on **“Biostatistics in Medical One Day Seminar on “Plagiarism in Research and use of SCOPUS data base”** in 2019 conducted by VMRF-DU, Salem.
- Participated in and completed workshop on **“Introduction to Qualitative research Methods”** in 2020 conducted by VMRF-DU, Salem.
- Participated in workshop on **“Bioethics and GCP sensitization Workshop in 2020”** conducted by Thiruvavur Medical College. (ICMR and NIRT funded)

- Attended SOZOCON-2011 – **“Current Trends And Strategies In Infectious Diseases”** organized by Indian Association of Medical Microbiologists.
- Attended in the symposium on **“Recent Trends in Opportunistic Mycotic Infections”** conducted by Dept. of Medical Microbiology, Madras University.
- Attended in CME program on **“Hospital Infection Control”** organized by Dept. of Microbiology, CHRI.
- Paper Presented in National Conference: **“Drug Discovery And Translational Medicine (DDTM-2019),”** MARCH - 2019, Department Of Biochemistry And Biotechnology, Annamalai University, Annamalai Nagar, Tamilnadu, India.
- Participated in **“RNTCP Zonal Task /Force Meeting 2015 South Zone II”** organized by Govt. Medical College, Trivandrum With RNTCP.

Participated in **“39th MICROCON 2015”** organized by JIPMER, Pondicherry with Indian Association of /medical Microbiologists

XIII. MEMBERSHIPS

- Institutional Ethics Committee
- Medical Education Unit

XIV. AREAS OF EXPERTISE

- Medical Microbiology
 - Molecular Biology
 - Laboratory Medicine
 - Allied Health Sciences Education
 - Competency Based Education
 - Quality Assurance
 - Research Methodology
 - Academic Administration
 - Curriculum Development
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XVI. DECLARATION

I hereby declare that the information furnished above is true and correct to the best of my knowledge and belief.

Date : 20.07.2026

Place : Karaikal

(Dr. D. KARTHIKEYAN)

List of Publications:

1. A study on association of vitamin d, calcium and oxidative stress as factors involved in the pathogenesis of uterine fibroids, *Annals Of The Romanian Society For Cell Biology* [international], vol. 25, no. 1, pp.5756 - 5762 Karthikeyan Dhandapani
2. Serum aromatase – marker enzyme for uterine fibroids, *Annals Of The Romanian Society For Cell Biology* [international], vol. 25, no. 4, pp.7672 - 7678 V Shanmugapriya., C K Vijayasamundeeswari., D Karthikeyan
3. A study on analysis of cardio vascular risk factors in chronic alcoholics, *Biomedical And Pharmacology Journal* [national], vol. 12, no. 4, pp.1961 - 1965 Shanmugapriya Velayutham., Karthikeyan Dhandapani
4. A study on high and low level drug resistance pattern among clinical isolates of enterococci, *Biomedical And Pharmacology Journal* [national], vol. 14, no. 3, pp.1189 - 1197 Karthikeyan Dhandapani
5. Prevalence of intestinal parasitic infection among school going children in karaikal, *Asia Pacific Journal Of Research* [international], vol. 2, no. xxxvii, pp.181 - 186 S Mohan., D Karthikeyan
6. Speciation and antifungal susceptibility pattern of candida isolated from clinical specimens, *International Journal Of Current Microbiology And Applied Sciences* [national], vol. 5, no. 4, pp.820 - 824 S Mohan., D Karthikeyan
7. Bacteriological profile of asymptomatic bacteriuria among diabetic patients, *International Journal Of Medical Microbiology And Tropical Diseases* [national], vol. 3, no. 4, pp.164 - 166 Mohan S., Kathikeyan D., Kavitha Y., Moinuddin Khaja., Jeevithan S

8. Antibiogram of pseudomonas aeruginosa isolates at karaikal-puducherry,
Journal Of Evolution Of Medical And Dental Sciences [national], vol. 3, no. 16, pp.4220 - 4225
Haja Abdul Nazeer., Sk Mohiddin., S Mohan., Y Kavitha., D.Kartikeyan
9. Study on biochemical analysis of factors involved in the pathogenesis of uterine fibroid disorder,
National Journal Of Basic Medical Sciences [national], vol. 10, no. 3, pp.77 - 84
Vijayasamundeeswari Chinnathambipalayam Kandaswamy., Shanmugapriya Velayutham., Karthikeyan Dhandapani
10. A study on virulence determinants and antimicrobial resistance among enterococci isolates,
Biomedicine [national], vol. 43, no. 3, pp. – Karthikeyan Dhandapani
11. A study on correlation between the drug resistance and biofilm production among the gnb isolated from blood, *Indian Journal Of Microbiology Research* [], vol. 3, no. 2, pp.197 - 202
Mohan sundaram., Dinesh Babu., Karthikeyan Dhandapani
12. Study of biofilm production and antimicrobial resistant pattern of the bacterial isolates from invasive devices, *International Journal Of Research In Health Sciences* [international], vol. 2, no. 1, pp.274 - 281 Karthikeyan Dhandapani
13. Early diagnosis of rsv infected children by rt-pcr helps to increase therapeutic response and recovery rate, *International Journal Of Research And Analytical Reviews* [], vol. 6, no. 1, pp.561 - 565 Karthikeyan Dhandapani., Shanmugapriya Velayutham., Anandi Viswanathan
14. A study on learning experience of first mbbs students on supplemented lab teaching methodology in a case of jaundice, *Asia Pacific Journal Of Research* [national], vol. 1, no. 38, pp.206 - Karthikeyan., Santhini ., Shanmugapriya Velayutham., Sathish R
15. Impact of antabuse treatment on dyslipidemia and oxidative stress levels in chronic alcoholism,

Journal Of Stress Physiology And Biochemistry [international], vol. 16, no. 4, pp.113 - 118

16. Phenotypic detection of Candida species and correlation of their antifungal susceptibility with biofilm production, *Indian Journal Of Medical Microbiology* [National], vol. 39, no. , pp.s105 - s106 Karthikeyan Dhandapani
17. Inducible clindamycin resistance among community and hospital acquired isolates of Staphylococcus species, *International Journal Of Pharma And Bio Sciences* [], vol. 3, no. 3, pp.372 - 380 Karthikeyan Dhandapani
18. Perception of 1st year bds & allied health sciences students towards virtual learning in the pandemic lockdown, *Annals Of The Romanian Society For Cell Biology* [international], vol. 25, no. 4, pp.19903 - d19908 Karthikeyan Dhandapani
19. Respiratory syncytial virus detection – an important entity for children with acute respiratory tract illness, *Asian Journal Of Microbiology, Biotechnology And Environmental Sciences* [National], vol. 21, no. 3, pp.775 - 778 Karthikeyan Dhandapani., Anandi Viswanathan., Mohan Sundaram., Ambujam Govindasamy
20. Analysis of progin gene single nucleotide polymorphism in patients with uterine fibroid disorder, *Turkish Journal Of Physiotherapy And Rehabilitation* [international], vol. 32, no. 3, pp.33091 - 33109 Karthikeyan Dhandapani
21. Comparative study od dietary, Genetic and Lifestylr factors in Gouty Arthritis Patients in East Coastal Region of South India. Texilla International Journal of Public Health. Vol. 13, Issue. 1. ISSN:2520-3134
22. Views on virtual education during the covid-19 pandemic among medical and paramedical students in india, *Bioinformation* [national], vol. 18, no. 6, pp.518 - 524 Karthikeyan Dhandapani