

Name : Dr. R. Mahenthiran

Designation : Assistant Professor

Department : Microbiology

Qualification: M.Sc., M. Phil., MBA., Ph. D.

Experience : Teaching: 6 Years Research: 3 Years

Area of Specialization(s) : Immunotechnology

Email (Official ID) : mahenthiran@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D.	Microbiology	P.S.G College of Arts and Science, Coimbatore.	2018
M. Phil.	Microbiology	P.S.G College of Arts and Science, Coimbatore.	2014
M.Sc	Microbiology	P.S.G College of Arts and Science, Coimbatore.	2012
B.Sc	Microbiology	Bharathidasan College of Arts and Science	2010

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
MBA	Hospital Management	Bharathiar University	2013

Projects

Completed

Project Title	Agency	Amount	Duration
Isolation and Characterization of Bifidobacterium species from dairy products against gastro intestinal infection causing pathogens	TNSCST – Student Project Scheme	7,500	6 Months
Development of Chicken Egg Yolk antibody (IgY) based ELISA detection kit for identification of <i>Staphylococcus aureus</i> isolated from Bovine Mastitis.	Seed Money Scheme - Dr. N.G.P Arts and Science College, Coimbatore.	5,000	6 Months
Generation and Characterization of Chicken Egg yolk antibodies against bovine causing <i>Staphylococcus aureus</i> and <i>Escherichia coli</i> .	State Science & Technology Section of the Department of Science & Technology	6,000	6 Months

Research Guidance

Programme	Number of Scholars	
	Completed	Pursuing
Ph.D	-	2
M.Phil	-	-

Paper Publications: International / National Journals

- Dr. Mahenthiran R and Dr. A. Michael, **Passive Protection against *Campylobacter jejuni* in Broiler Chickens using Chicken Egg Yolk Antibodies**, *Literary findings International Journal of Multidisciplinary Research*, Vol 3, Issue 2, pp 179-187, 2023.
- Praveen Kumar B, Ananda Krishnan P R, Kaviyarasu K, Indhra Prasad P and Dr. Mahenthiran R, **Enumeration of Microbes from biofertilizer and chemical fertilizer used soil**, *IOSR Journal Of Pharmacy And Biological Sciences*, Vol 18, Issue 1, pp 50-58, 2023. (Index in Google scholar).
- Dr.R.Mahenthiran, Rishi raghav.B, Mugunth.S, Koushika.R, Rahul.R and Yesvanth.S, **Preparation of neem shampoo and evaluating its bio gram activity**, *Aegaeum journal*, Vol 10, Issue 5, pp 136 -149, 2022. (Indexed in UGC CARE).
- Kasiviswanath B, Dr. Mahenthiran R, Muthu Swetha S, Jenisha E J and Rithanya S, **Preparation of Spirulina and Yeast mixture for Poultry feed**, *Journal of Emerging Technologies and Innovative Research*, Vol 09, Issue 01, pp 200-205, 2022. (Indexed in UGC CARE).

- Dr.R.Mahenthiran , Dharani.M , Atchayaa.S , Dharshini vaishali.S and Thirukumaran. D, **Quality Test for Raw milk** *International journal of research in engineering, science and management* ,Volume 4,Issue 10, pp182-184, 2021.(Index in Google scholar).
- Dr R. Mahenthiran, Akshaya.V.S , Pooja.S and Deepika. A **Skin infection causing pathogens**, *International Journal of All Research Education and Scientific Methods (IJARESM)*, Volume 9,Issue 12, pp 179 -186.(Index in google scholar)
- Dr.R.Mahenthiran , Dharani.M , Atchayaa.S, Dharshini vaishali.S and Thirukumaran. D **Quality Test for Raw milk** *International journal of research in engineering, science and management*, Volume 4,Issue 10(ISSN:2581-5792) Page.no:182 to 184.(Index in google scholar)
- SornambigaRavi, Archana S Nair, Vishnu Priyanka K, Poovendiran P and **Mahenthiran R, Antibiogram properties of aloe vera extracts against fungal isolates from agricultural land**, *International Journal of Advance Research and Innovative Ideas in Education*, Vol 7, Issue 01, pp 1171 – 1185, 2021. (Indexed in Google scholar).
- Vishnu Priyanka K, Poovendiran P, Sudharsan K, Sornambiga Ravi And Archana S Nair, **Evaluation of Antimicrobial Properties of *Acalypha Indica* Extract Against Gastrointestinal Infection Causing Organisms**, *International Journal of Pharmaceutical Research and Applications*, Volume 6, Issue 01, pp 1100-1110,2021. (Indexed in Google scholar).
- Archana S Nair, Vishnu Priyanka K, Poovendiran P, Sudharsan K, Sornambiga Ravi and **Dr. Mahenthiran R, Examination of Antibiogram Level for Isolated Microorganisms from the Indian Currency Notes and Coins**, *International Journal of Innovative Science and Research Technology*, Vol 6, Issue 02, pp 885-890, 2021. (Indexed in Google scholar).
- Dr. Mahenthiran R, Sudharsan K, Sornambiga Ravi, Archana S. Nair, Vishnu Priyanka K and Poovendiran P. **Preparation and characterization of antigens against isolated *Shigella spp* from infected stool samples**, *World Journal of Pharmaceutical Research*, Vol 10, Issue 04, pp 1174-1183, 2021. (Indexed in Scopus).
- Dr. Mahenthiran R, Poovendiran P, Sudharsan K, Sornambiga Ravi, Archana S. Nair and Vishnu Priyanka K, **Antimicrobial activity of *Chromolaena odorata* against wound infection**, *International Journal of Engineering Applied Science and Technology*, Vol 5, Issue 10, pp 281-287 , 2021. (Indexed in Google scholar).
- Dr.R. Mahenthiran, Sornambiga Ravi and Sri Alamelu.K.V, **Generation, Purification and Characterization of Chicken Egg Yolk Antibodies (IgY) against Lipase Enzyme**, *International journal of research and analytical reviews*, Vol 08, Issue 01, pp 388-401, 2021. (Indexed in UGC).

- Dr. Mahenthiran R, Sri Alamelu K.V and Sornambiga Ravi, **Neutralization Potential of Chicken Egg yolk antibodies (IgY) generated against Mastitis causing *Pseudomonas aeruginosa* and *Klebsiella pneumonia***, *South Asian Journal of Research in Microbiology*, Vol 9, Issue 3, pp 1-15, 2021. (Indexed in Google scholar).
- Dr. Mahenthiran R, Sri Alamelu K.V and Sornambiga Ravi, **To evaluate the antimicrobial efficiency of Chlorohexidine, nisin, chitosan, and IgY antibodies against *enterococcus faecalis*, and *candida albicans***, *World Journal of Pharmaceutical Research*, Vol 10, Issue 4, pp 1972-1986, 2021. (Indexed in Scopus).
- Dr. R. Mahenthiran, Sornambiga Ravi and Sri Alamelu. K. V, **Production of oral IgY Antibody-A novel immunotherapy against *Clostridium difficile***, *International Journal of Trend in Scientific Research and Development*, Vol 5, Issue 3, pp 536-546, 2021. (Indexed in Google scholar).
- Dr. R. Mahenthiran, Sornambiga Ravi and Sri Alamelu. K. V, **Generation and characterization of chicken egg yolk antibodies against common pathogens like canine parvovirus, canine coronavirus and *salmonella typhimurium***, *International Journal of Creative Research Thoughts*, Vol 9, Issue 3, pp 5394 – 5408, 2021. (Indexed in UGC).
- Dr. Mahenthiran R, Sri Alamelu K.V and Sornambiga Ravi, **Generation and Characterization of Chicken Egg Yolk Antibodies (IgY) against *Helicobacter pylori* and Testing its Potential by In Vitro Method for Therapeutic Use**, *Pensee International Journal*, Vol 51, Issue 4, pp 101-115, 2021. (Indexed in UGC).
- Dr. Mahenthiran R and Sornambiga Ravi, **Generation, purification and characterization of anti gliadin antibodies against celiac disease in white leghorn hen**, *Strad research Journal*, Vol 8, Issue 5, pp 103-117, 2021. (Indexed in UGC CARE).
- Dr.R. Mahenthiran and K. Vishnu Priyanka, **Development of an ELISA based detection kit using chicken egg yolk antibody against gastrointestinal infection causing *Salmonella enteritidis* in poultry**, *International Journal of Creative Research Thoughts*, Vol 9, Issue 5, pp 657-667, 2021. (Indexed in UGC).
- Dr.R. Mahenthiran and Archana S Nair, **Preparation of oral mouth wash and their characterization using chicken IgY antibodies against *Candida albicans***, *International Journal of All Research Education and Scientific Methods*, Vol 09, Issue 05, pp 1338-1346, 2021.(Indexed in UGC CARE).
- Sudharsan K and Dr. R. Mahenthiran, **Generation and Characterization of chicken egg**

yolk antibodies against Shigella sp and comparison studies with *Rhododendron nilagiricum*, *Journal of Emerging Technologies and Innovative Research*, Vol 08, Issue 05, pp 130-138, 2021. (Indexed in UGC CARE).

- Poovendiran. P and Dr. R. Mahenthiran, **In-vitro evaluation of chicken egg yolk antibodies generated against *Streptococcus pyogenes***, *International Journal of Creative Research Thoughts*, Vol 09, Issue 05, pp 114 -127, 2021.(Indexed in UGC).
- Pranav.P, Mominaanzum.A, Sekar.M, Yuvan Sasi.V, SureyaPrakash.V and Dr.R. Mahenthiran, **Assay of antigenic preparation for Production of Antibody against Bacterial and Fungal spp.**, *Aegaeum journal*, Vol 9, Issue 6, pp 145-157, 2021. (Indexed in UGC CARE).
- SonaliPathak.P, Rahul.R, Jeyadeepika.S and Dr. R. Mahenthiran, **Antibacterial activity of sweet orange (*Citrus sinensis*) on *Staphylococcus aureus* and *Escherichia coli* isolate from wound infections**, *Journal of Emerging Technologies and Innovative Research*, Vol 08, Issue 07, pp 640-644, 2021. (Indexed in UGC CARE).
- Dr. Mahenthiran R, Sri Alamelu K.V and Sornambiga Ravi, **Global Health Crisis COVID-19: A Prompt Review**, *Science and Engineering Journal*, Vol 25, Issue 5, pp 251-268, 2021. (Indexed in UGC CARE).
- Momina anzum A, Yuvansasi V, Sekar M, Pranav P, Sureyaprakash V and Dr.R. Mahenthiran, **Analysis of genetic variants and mutations of the novel corona virus sars-CoV-2**, *World journal of pharmacy and pharmaceutical sciences*, Volume 10, Issue 08, pp 876 – 896, 2021. (Indexed in Google scholar).
- Sonali Pathak P, Vishruthi M, Lalitha R, Rahul R, Jeyadeepika S, Rajesh T and Dr.R.Mahenthiran, **Antibacterial activity fresh garlic (*Allium sativum*) juice on *Streptococcus* and *Pseudomonas aeruginosa* isolate from wound infections**, *International Journal of Research and Analytical Reviews*, Vol 08, Issue 04, pp 400-404, 2021. (Indexed in Scopus).
- Sivaranjani.S, Shwethambari.M, Sneha.M, Saranya and Dr.R.Mahenthiran, **Amylase and Protease Production and assay by *Aspergillus* sp. And *Penicillium* sp.**, *International Journal of Research and Analytical Reviews*, Vol 08, Issue 03, pp 883-889, 2021. (Indexed in Scopus).
- Anushapriya P, Koushika R, Arunthathi M, Srinithi A and Mahenthiran R, **Isolation and Enumeration of Bacteria from Packed Mango Juice**, *International Journal Of Progressive Research In Science and Engineering*, Vol. 02, Issue 09, pp 171-177, 2021.

(Indexed in Google scholar).

- Dr. R. Mahenthiran, Sharmila. R, Deepa. S and Barath Kumar. R, **Coronavirus and its Preventive Measures**, *International Journal of Trend in Scientific Research and Development*, Volume 5 Issue 5, pp 1963-1969, 2021. (Indexed in Scopus).
- Dr.R.Mahenthiran, Sivaranjani.S, Danya.G, Ranjini.M, **Extraction of alginate from Brown Sea Weed**, *International Journal for Research Trends and Innovation* , Volume 6, Issue 12, pp 1-7, 2021.(Indexed in Google scholar).
- Janani J, Narmatha Devi G, Swetha K, Priyadharsini J, Vaishali G and Dr. R. Mahenthiran, **Purification Of polyclonal antibody from egg yolk**, *World journal of pharmacy and pharmaceutical sciences*, Vol 10, Issue 10, pp 01-11, 2021. (Indexed in Google scholar).
- **Mahenthiran R** and Michael A, **Isolation And Identification Of Microorganisms From Bovine Mastitis Infected Milk Samples And Their Antibiogram**, *World Journal of Pharmaceutical Research*, Vol 5, Issue 02, pp 1238-1247, 2016 (Indexed in Scopus).
- Sue Elizabeth Shajan, Antonyamy Michael, **Mahenthiran Ramasamy. Generation And Characterization Of Chicken Egg Yolk Antibodies (Igy) Against Clostridium Difficile And Evaluating Its In-vitro Neutralization Efficacy**, *World Journal of Pharmaceutical Research*, Vol 3, Issue 10, pp 646-665, 2014 (Indexed in Scopus).
- T. Diraviyam, M. Menaka, **R. Mahenthiran** And A. Michael. **Generation And Physicochemical Characterization Of Chicken Egg Yolk Antibodies (Igy) Against Salmonella Typhimurium**, *International journal of pharmacy & biological Sciences*, Vol 4, Issue 4, pp 343-350, 2013 (Indexed in Elsevier).
- **Mahenthiran .R**, Naveen .S, Diraviyam .T, Ravikumar .S, Michael .A, **Generation, purification and neutralization potential of Chicken egg yolk antibodies (IgY) against mastitis causing Escherichia coli and Staphylococcus aureus**, *International journal of pharmacy & biological Sciences*, Vol 4 Issue 3, pp 687-696, 2013 (Indexed in Elsevier).
- Naveen S, Karthika S, Sentila R, **Mahenthiran R**, Michael A, **In-vitro evaluation of herbal and chemical agents in the management of dandruff**, *Journal of microbiology and biotechnology research*, Vol 2, Issue 6, pp 916-921, 2012. (Indexed in Google Scholar).

Other Publications: Books / Book Chapters

• **Mahenthiran R**, Devadharshini R, Riya R And Ananda Krishnan P. R , Advances In Pharmaceutical Sciences (Volume – 2), JPS Scientific Publications, Tamil Nadu, India, An Overview of Pharmaceutical Science.

• **Mahenthiran R**, Praveen Kumar B And Mohana Priya P., Advances In Pharmaceutical Sciences (Volume – 2), JPS Scientific Publications, Tamil Nadu, India, Emerging Synthetic Drugs.

Presentations in Conference

- **In-vitro and In-vivo evaluation of Chicken egg yolk antibodies against Bovine Mastitis causing *Staphylococcus aureus* and *Escherichia coli***, International Conference on Emerging Concepts in Biotechnological Innovations, Department of Biotechnology, SRM Institute of Science and Technology, Kattankulathur 29.03.23 & 30.03.23.
- **Passive Protection Against *Campylobacter jejuni* in broiler chickens using Chicken Egg Yolk Antibodies**, IQAC enabled RUSA 2.0 Sponsored Multidisciplinary two days online International Conference on Nutrition and Health education (ICEHE), Department of Education Annamalai University, Annamalai Nagar 20.02.23 & 21.02.23.
- **Generation, Characterization and Neutralization potential of Chicken Egg Yolk (IgY) antibodies against diarrheal infection causing *Shigella* sp. And development of their diagnosis kit**, SERB, India and ISCA sponsored International Conference on Impact of Innovations in Science and Technology for Societal Development (IISTSD-2019), Kongunadu Arts and Science College, Coimbatore 19–Sep-19, 20–Sep-19& 21 –Sep-19.
- **Generation, Purification and Neutralization Potential of Chicken Egg yolk antibodies (IgY) against Mastitis causing *Escherichia coli* and *Staphylococcus aureus***, National conference on sustainability , challenges and advances in Biological sciences, Muthayammal College of Arts & Science, Rasipuram 18-Dec-15&19-Dec-15.
- **Passive Protection Against *Campylobacter jejuni* using Chicken Egg Yolk Antibody**, National conference on Recent developments in Microbiology, Biochemistry and Biotechnology, PSG CAS,Coimbatore, 29-Nov-2013 & 30-Nov-2013.
- **Generation, Purification and Neutralization Potential of Chicken Egg yolk antibodies (IgY) against Mastitis causing *Escherichia coli* and *Staphylococcus aureus***, National conference on Exploring the potentials of Microbes for Bioscience, Biotechnology and Medicine, SRM University,Chennai,17-Dec-2012&18-Dec-2012.
- **Generation, Purification and Neutralization Potential of Chicken Egg yolk antibodies (IgY) against Mastitis causing *Escherichia coli* and *Staphylococcus aureus***, National conference on Microbiological research in 21st Century, Bharathidasan university, Tiruchi, 27- Feb-2012&28-Feb-2012.
- **Extremophiles**, student seminar, PSGR Krishnammal college for Women,Coimbatore, 28-Jan- 2011.

Participation in Conference

National

- National Conference on Confluence of Research and Ethics in Biological Sciences – A Scenario on the Emerging Trends, PSG College of Arts and Science, Coimbatore, 14- Mar-13 & 15- Mar-13.
- National level conference on Impact of climate change on biodiversity of Insects and Environment, Bharathiar University, Coimbatore, 15- Mar-10 & 16-Mar-10.
- Participated in the “Indo- US STF Symposium on Synergy and Diversity of Molecular Medicine – Scope for Collaborative Research and Better Healthcare” held at PSG IMSR, Coimbatore – 14-June 2011.
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Participation in Seminars

- National level of symposium on explaining microbes for nanoscience and technology held at K.S.R College of Arts and Science, Tiruchengode – 19- Sep-08 & 20-Sep-08.
- Participated in UGC Sponsored special lecture programme in Microbiology, PSG CAS, and Coimbatore – 10 September 2012.
- Participated Seminar on Postharvest Technology and cool chain Management, Held at Kumaraguru college of Technology, Coimbatore – 15- December 2011.
- Participated in the special lecture Programme in Microbiology, held at PSG CAS , Coimbatore – 20-September 2011.

Participation in Workshop

- National workshop on Intellectual Property Rights, Bharathiar University, Coimbatore – 3- Mar-2016 & 4-Mar-2016.
- Participated in one day workshop on Redefining Research Horizon with with Eresources, held at PSG CAS, Coimbatore – April 2015.
- Participated in the “One Day International Symposium on Grants Writing and Research

Reporting in Biological and Medical Sciences” held at PSG IMSR, Coimbatore – 2 November 2014.

- Molecular Techniques, Aristogene Biosciences, Bangalore held at the Department of Microbiology, PSG College of Arts & Science, 27- Mar 12 & 28- Mar 12.
- Participated in two days training Programme on Analytical instrumentation in central Research Laboratory, PSG CAS, Coimbatore – 12- December 2011.
- Participated in the CME Programme on “Automated Diagnostic Tools – Boon to Better Health”, V.G Hospitals & Medical Centre, Coimbatore – 8-June 2011.
- Undergone clinical diagnosis training in Meena Microbiological Laboratory and Lotus Multi Speciality hospital, Erode – 2009 & 2011.

Participation in Faculty Development Programme

- Dr. N. G. P Arts and Science College and ipsr solutions organized FDP on Outcome based education on 4th March 2023.
- Hindusthan College of Arts and Science organized online FDP on National Educational Policy – Challenges and Opportunities in Higher Education from 13th February 2023 to 21st February 2023.
- ICT Academy Organized online FDP on “Digital Teaching Techniques” from 10 Aug 2020 to 15 Aug 2020.
- IIC of MHRD Innovation cell organized online FDP on Innovation and IPR, Entrepreneurship and Start ups among HEIs from 28th April to 22nd May 2020.
- ATAL FDP on “Drug Engineering through Bioprospecting” at Dr. N. G. P. Arts and Science College, Coimbatore, Tamilnadu, from 12-Jul-21 to 16-Jul-21.

Conference / Seminar / Workshop Organized

- Committee member, International conference on Current seinario in life sciences, Department of Microbiology, Bharathidasan College of Arts and Science, Erode. On 6-September 2017.
- Organizer for National symposium for Graduate Research at Dr. N.G.P. Arts and Science College, Coimbatore on 21st and 22nd Feb 2020.
- Organizing Committee member for DBT sponsored SERB sponsored National Seminar on “Computing Platforms for Biological Big data Analytics” at Dr. N.G.P. Arts and Science College, Coimbatore on 5 th 7 6th Feb 2020.
- Organizing Committee member for National Conference on “Futuristic Approaches in Transformation of Biological Research-FATBR-2020”, organized by Faculty of Biosciences, Department of Microbiology Dr. N.G.P. Arts and Science College, Coimbatore on 6th and 7th March, 2020.
- Organizing Committee member for International Seminar on “Perspectives nanotechnology in Medical Applications”, organized by Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore on 6th and 27th November, 2021.

Invited Speaker / Session Chair / Member Organizing Committee – Conference / Seminar / Workshop

- Delivered a talk on “Microbiology Future Prospects” at Bharathidasan Arts and Science College, College, Erode, 30-November – 2021.

Online Certificate Programs

- Digital teaching Techniques, by ICT Academy, from 10th to 15th August 2020.
NPTEL online certificate course on Cell Culture Technologies from Feb-Apr, 2020.

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Insresearch	Life-time	From 2022 Onwards
Indian Association of Applied Microbiologists	Life-time	18-Dec-15 Onwards

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best teacher award	Dr.N.G.P Arts and Science College, Coimbatore	February 2020
Best mentor award	Dr.N.G.P Arts and Science College, Coimbatore	February 2020
Proficiency Award	Bharathidasan College of Arts and Science, Erode	March 2010
Best Work Paper	Dr.N.G.P Arts and Science College, Coimbatore	May 2022
Best Professor for Research Contribution	Dr.N.G.P Arts and Science College, Coimbatore	May 2022
Best Fund Mobilizer Award	Dr. N.G.P Arts and Science College, Coimbatore	May 2023
Young Researcher Award	Dr. N.G.P Arts and Science College, Coimbatore	May 2023