

# J.M.PAVITHRA SANDALEKHA MADAMARANDAWALA

43/A, YATIGAMMANA, MENIKDIWELA, KANDY, SRILANKA.

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## EDUCATIONAL QUALIFICATIONS

MASTER OF SCIENCE IN EXPERIMENTAL BIOTECHNOLOGY –Currently following 2017-2019  
Postgraduate institute of Science, University of Peradeniya, Sri Lanka

BACHELOR OF SCIENCE IN MICROBIOLOGY (2014-2017)  
FERGUSSON COLLEGE, AFFILIATED TO UNIVERSITY OF PUNE, INDIA

First class with distinction  
Overall Percentage-86.05%, Microbiology percentage- 87.25%  
First Rank in the batch

First year major subjects-Microbiology, Chemistry, Botany, Zoology  
Second year major subjects- Microbiology, Chemistry, Botany  
Third year major subjects- Microbiology

Course Modules: Medical microbiology, Molecular biology and genetics, Biochemistry, Industrial and applied microbiology, Immunology, Enzymology

Practical modules: Diagnostic microbiology, clinical biochemistry, applied microbiology and molecular biology

SECONDARY EDUCATION- MAHAMAYA GIRLS` COLLEGE, KANDY, SRILANKA  
G.C.E Advanced level examination (English medium) : Biology-C, Chemistry-B, Physics-C  
G.C.E. Ordinary Level examination (English medium): Distinction for all subjects

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## RESEARCH EXPERIENCE

### POSTGRADUATE:

RESEARCH ASSISTANT (NSF grant no. NSF-PSF/ICRP/2017/HS/01)  
MOLECULAR BIOLOGY AND HUMAN DISEASES RESEARCH GROUP, NATIONAL INSTITUTE OF FUNDAMENTAL STUDIES (NIFS), SRI LANKA.  
May 2018- up to date

VOLUNTARY RESEARCH ASSISTANT  
MOLECULAR BIOLOGY AND HUMAN DISEASES RESEARCH GROUP, NIFS, SRI LANKA.  
July 2017- May 2018

### UNDERGRADUATE:

UNDER GRADUATE RESEARCH STUDENT-  
BIO ENERGY RESEARCH GROUP, NIFS, SRILANKA  
May-June 2016

### PRE-UNIVERSITY:

PRE-UNIVERSITY RESEARCH STUDENT-  
MICROBIAL BIOTECHNOLOGY RESEARCH GROUP, NIFS, SRI LANKA  
September 2013-February 2014

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## SKILLS

LABORATORY TECHNIQUES: Microbiological techniques including clinical sample processing  
Molecular techniques including DNA extraction, PCR, gel electrophoresis  
Biochemical techniques including protein chemistry and compound extraction

EQUIPMENTS HANDLING: biosafety cabinet, laminar air flow hood, UV spectrophotometer, fluorescence and compound microscopes, fine particulate and Anderson air samplers, PCR machine, gel electrophoresis system, gel documentation system, anaerobic work station, multi- mode plate reader

COMPUTER SKILLS PRACTISING: Microsoft office  
Minitab, SAS,  
epiinfo, BLAST, bioedit, gen5 and gene tools

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## ACADEMIC DISTINCTIONS

- FIRST RANK IN THE BACHELORS` BATCH (2014-2017)- Fergusson college, affiliated to University of Pune, India
- AWARDEE- ceremony held for students who had excelled in both academic and extra-curricular activities-Fergusson college, India
- HIGH DISTINCTION-AUSTRALIAN NATIONAL CHEMISTRY QUIZ, University of Sydney, Australia-2011
- GOVERNOR`S AWARD-students who had excelled at G.C.E. O/L examination-2008

## SCHOLARSHIPS

### RECEIVED

NEHRU MEMORIAL FULLY FUNDED SCHOLARSHIP- to pursue undergraduate studies in India  
INTERNATIONAL CENTRE FOR CULTURAL RELATIONS, GOVERNMENT OF INDIA.

## ABSTRACTS

Madamarandawala JMPS, Ekanayake EMUA, Weerasinghe AMJS, Thotawatthage CA, Senadeera GKR, Magana-arachchi DN "a novel approach for tuberculosis diagnosis using coconut water and silicon solar cell cum biosensor" South Asian biotechnology conference- 29<sup>th</sup> March 2018-Colombo, Sri Lanka.

## WORKSHOPS AND

### CONFERENCES

### ATTENDED

- South Asian Biotechnology Conference-28<sup>th</sup>-30<sup>th</sup> March 2018, Colombo, Sri Lanka.
- Regional seminar of ANRAP- " Herbal Approaches in combating Diabetes and common Tropical Diseases" held in Sri Lanka – 2018
- Annual Scientific sessions-Srilanka Society for Microbiologists, 2017
- Hands on workshop on "explore DNA " –BioEra life sciences PVT Ltd, India 2016
- Immunological techniques- 2016 -Ministry of science and technology DBT STAR program, India  
Course content: Blood biochemistry and related immunological techniques including ELISA
- Eukaryotic genetics- Ministry of science and technology DBT STAR program 2015
- Biochemistry and molecular biology- Ministry of science and technology DBT STAR program 2015
- Symposium on entrepreneurship : a gateway to biologists- Association of microbiologists, Pune 2014
- Molecular biology methods for quality control of biofertilisers at NIFS – University of Sydney  
Course content: DNA extraction, gel electrophoresis and PCR. 2014
- GLOBE-workshop on environmental pollution monitoring and protection- SL American corner 2011
- School science program for students who had excelled at G.C.E O/L examination at NIFS 2009

## CERTIFICATES AND

### MEDALS

- Certificate of participation- Lafarge Holcim Awards- worldwide competition in sustainable design 2017  
Project title: A light house into a zero energy guest house complex
- Certificate course on industry oriented ICT and office application- Ministry of education, Srilanka
- Merit certificate- All island competition on sustainable energy resources- Sustainable energy authority, Srilanka 2007
- 'Young Bird Scientist' Medal , Nature exploration project competition, Srilanka Mahaweli authority 2007
- 'Nature observer' Medal, Nature exploration project competition, Srilanka Mahaweli authority 2005

## MEMBERSHIPS

- Member-Foundation of Astronomical Studies and Exploration (FASE), Sri Lanka. Since 2013
- Member- Srilanka Society for Microbiologists. Since 2017
- Member-Association of Microbiologists, Pune Branch, India Since 2014

## EXTRA-CURRICULAR

### ACTIVITIES

- Member of the winning dancing teams- International students` cultural programs held in India -2014, 2015,2016 and 2017
- Participated in astronomical workshops organized by the Foundation of Astronomical Studies and Exploration, Sri Lanka
- Participation- Fergusson college Bird observation camps 2015-2016
- Teacher- Sri Pamarathana Dhamma school, Menikdiwela 2012-2013
- Treasurer-Nature club-Mahamaya Girls `college, Kandy 2010-2011
- Organized and participated nature exploration programs held at different local schools and universities in Sri Lanka (2003-2011)