

Dr. Palanisamy Manikandan, MSc., MPhil., PhD [Microbiology]

Associate Professor

Department of Medical Laboratory Sciences

College of Applied Medical Sciences, Majmaah University

Majmaah, KSA

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Positions Held:

August 2014 - present	-	Associate Professor	-	Department of Medical Laboratory Sciences, College of Applied Medical Sciences, Majmaah University, Majmaah, KSA
October 2017 - present	-	Co-Supervisor	-	Doctoral Scholl of Biology, University of Szeged, Szeged, Hungary
2011 - 2014	-	Scientist & Head	-	Dept. of Microbiology & Molecular Biology, Aravind Eye Hospital & Post Graduate Institute of Ophthalmology, Coimbatore, India
2011 - 2014	-	Associate Professor	-	Dept. of Microbiology & Molecular Biology, Aravind Eye Hospital & Post Graduate Institute of Ophthalmology, Coimbatore, India (Affiliated to Dr. MGR Medical University)
2012 - 2014	-	Secretary & In-charge-		Infection Control Committee (ICC) Central Sterile Supply Department (CSSD), Aravind Eye Hospital & Post Graduate Institute of Ophthalmology, Coimbatore, India
2006 - 2015	-	Principle Investigator	-	Indo-Hungarian Bilateral Research Project, Aravind Eye Hospital & Post Graduate Institute of Ophthalmology, Coimbatore, India

2014 – 2016	-	Member (South)	-	National Executive Members National conference of Society for Indian Human & Animal Mycologists (SIHAM), India
2016 - 2018	-	Joint Secretary	-	National Executive Members National conference of Society for Indian Human & Animal Mycologists (SIHAM), India
2001 - 2010	-	Microbiologist & Head	-	Dept. of Microbiology & Molecular Biology, Aravind Eye Hospital & Post Graduate Institute of Ophthalmology, Coimbatore, India
Sep - Nov 2008	-	Guest Researcher	-	Department of Microbiology, Faculty of Science, University of Szeged, Szeged, Hungary
January 2014	-	Organizing Secretary	-	10th National conference of Society for Indian Human & Animal Mycologists, 10-12 January 2014, Hotel Le Meriden, Coimbatore, India
<u>Other Positions Held:</u>				
2013 - present	-	External Examiner & Question Paper Setter-	-	Allied Health Sciences, The Tamil Nadu Dr. M.G.R. Medical University, Chennai, India
2012 - present	-	External Examiner & Question Paper Setter -	-	Microbiology, Periyar University, Salem; KSR CAS (Autonomous), Salem, India
2009 - 2014	-	Question Paper Setter- Microbiology & Pathology, Microbiology & Biochemistry (BSc Optometrist)	-	Bharathiyar University, India
2011 - present	-	PhD Supervisor (Part Time Category) -	-	Karpagam University, Coimbatore, India

Educational Qualifications:

PhD Microbiology

College studied : A.V.V.M Sri Pushpam, College, (Autonomous), Poondi, Thanjavore, India
University : Bharathidasan University, Tiruchirappalli, India
Duration : 4 years (2006 – 2010)
Thesis title : Prevalence, molecular diversity, clinical features and antifungal, susceptibility of *Aspergillus* species causing mycotic keratitis in South India

M.Phil Microbiology

College studied : PSG College of Arts & Science (Autonomous), Coimbatore, India
University : Bharathiar University, Coimbatore, India
Duration : 1 year (2004 - 2005)
Thesis title : Epidemiology and Detection of β -lactamases producing *Pseudomonas aeruginosa* from Ocular Infections

MSc Applied Microbiology

College studied : Muthayammal College of Arts & Science, Rasipuram, India
University : Periyar University, Salem, India
Duration : 2 years (1998 - 2000)
Thesis title : Isolation and antibiogram pattern of bacterial isolates from corneal scrapings

BSc Microbiology

College studied : Muthayammal College of Arts & Science, Rasipuram, India
University : Madras University, Chennai, India
Duration : 3 years (1995 - 1998)
Thesis title : Antibacterial activity of Colleous aromaticus

Courses handled in Majmaah University, KSA:

Medical Terminology (CMAS232)
General Microbiology (MDL234)
Medical Microbiology (MDL243)
Immunology and Serology (MDL244)
Clinical Mycology (MDL354)
Clinical Bacteriology (MDL363)
Epidemiology (MDL472)
Clinical Virology (MDL471)
Applied Clinical Microbiology (MDL481)
Research and Seminar (MDL354)

Responsibilities Held:

Member in Curriculum committee (Bachelor)
Member in Curriculum development Committee (Master)
Member in Research Committee
Coordinator for Clinical Virology (Main Campus and Female Campus)
Coordinator for Clinical mycology (Main Campus and Female Campus)
Research projects and publications

My teaching philosophy/strategy/preference:

My teaching preferences should preferably be not subject based - mean to express that not very personal but would be object centric - learners focused. This would certainly be at professional needs and career targets of the learners guarantying a parallelism with industrial/ market requirements and demands. As higher educational teaching should equally cover real- time developments, from all current applications in teaching such as - smart class rooms, intensive/ training hands- on sessions at wet labs, field visits, case-study discussions, individual's/ requirements based care would be the teaching targets. I am optimistic that the sessions would be live across the hours and learners participative. A learner in a higher educational sector could never be a commodity for others but certainly for himself/ herself - a career growth would be guaranteed. As a dedicated Professor, teaching preferences all through my career would move hand-in-hand with the real- time needs of learners/ students and academic aims of the esteemed University without compromising the committed curricula. With a holistic /balanced approach during my period of teaching, I would execute my profession with care and zero frustration - to my stakeholders.

Awards and Honors Received:

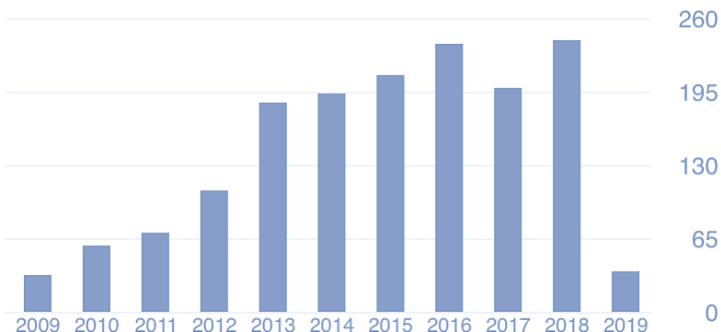
- **Best Researcher Award 2016:** College of Applied Medical Sciences, Majmaah University, Majmaah, Kingdom of Saudi Arabia.
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- **Best Alumni Award in Microbiology:** 20th Year celebrations of Muthayammal College of Arts & Science, Rasipuram, India, 6th March 2014.
- **ICMR Award - Shakunthala Amir Chand Prize 2009:** Outstanding clinical and biomedical young scientist for the year 2009 and best published research work in the field of biomedical Science including Clinical Research, New Delhi, 24th September 2012.
- **Best poster:** Keratomycosis due to uncommon *Aspergillus* species - National Seminar on Microbial Diagnostics, Dr.G.R. Damodaran College of Science, Coimbatore, March 18, 2010.
- **Dr. Pankajalakshmi Venugopal Glaxo Meritorious Award - 2010:** For outstanding work in the field of Medical Mycology - 8th National Conference of Society for Indian Human and



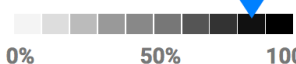
Animal Mycologists (SIHAM), All India Institute of Medical Sciences, New Delhi on 4-6, March, 2010.

- **Travel Fellowship**: Centre for Cooperation in Science and Technology among Developing Societies (CCSTDS) Sponsors: INSA-CSIR-DAE-GMDC-CCSTDS. 2007.
- **Travel Grant**: 2nd Pan African Medical Mycology Society Conference (PAMMS), Cape Town, South Africa, May 6-8, 2007.
- **Best Poster**: *Neocosmospora vasinfeta* keratitis - 2nd Pan African Medical Mycology Society Conference (PAMMS), Cape Town, South Africa, May 6-8, 2007.
- **Best paper of the session**: Subconjunctival infection by *Dirofilaria repens* A case report - 52nd Annual Conference of the TamilNadu Ophthalmic Association, Tirunelveli, 13-14 August, 2004.

Publication details:

- **Total Number of Research Articles Published: 70**
 - **Indexed Journals: 50**
 - Q1 Category: 20 Q2 Category: 13
 - Q3 Category: 04 Q4 Category: 14
 - **Book chapters: 06**
- **Non-Indexed Journals: 10**
- **Conference proceedings: 71**

Citations per year (as on 05.02.2019):

 as on 05.02.2019			 SCIENTIFIC NETWORK	
Citation indices	All	Since 2014	RG Score 28.74	Percentile: Your score is higher than 85% of ResearchGate members'.  0% 50% 100%
Citations	1648	1113		
h-index	22	17		
i10-index	33	29		
			h-index 16	h-index 15 Excluding self-citations
Cumulative Impact Factor: ~168.354				
S. No	Publication details		Journal Indexed by JCR/Scopus & Ranking	Impact factor
01.	Manikandan P, Abdel-hadi A, Babu Singh YR, Revathi R, Anita R, Banawas S, Al Dukhail A, Alshehri B, Shobana CS, Paneerselvam K, Narendran V. Fungal keratitis: Epidemiology, Rapid detection and Antifungal Susceptibilities of Fusarium and Aspergillus isolates from corneal scrapings. BioMed Research International, vol. 2019, Article ID 6395840, 9 pages, 2019. https://doi.org/10.1155/2019/6395840 .		Journal Citation Reports/Scopus Q2	2.583
02.	Jameson TJ, Rukmani M, Karunamoorthy R, Panneerselvam K, Manikandan P, Shobana CS. Effectiveness of application of lignolytic Cladosporium uredinicola GRDBF21 and Bipolaris maydis in the treatment of tannery effluent. Journal of Environmental Biology. 2019 (In press)		Journal Citation Reports/Scopus Q4	0.727

03.	Deepthi KG, Jayasudha R, Girish RN, <u>Manikandan P</u> , Ram R, Narendran V, Prabakaran SR. Polybacterial community analysis in human conjunctiva through 16S rRNA gene libraries. <i>Exp Eye Res.</i> 2018 May 14;174:1-12. doi:10.1016/j.exer.2018.05.011.	Journal Citation Reports/Scopus Q1	3.332
04.	Cho J, Prajna NV, Lalitha P, Rajaraman R, Krishnan T, Lin YB, Ray KJ, Lietman TM, Rose-Nussbaumer J; Mycotic Ulcer Treatment Trial Group. Therapeutic Penetrating Keratoplasty Button Cultures in The Mycotic Ulcer Treatment Trial II: A Randomized Trial Comparing Oral Voriconazole Versus Placebo. <i>Am J Ophthalmol.</i> 2018 Aug;192:142-145. doi: 10.1016/j.ajo.2018.05.007. Epub 2018 Jun 6.	Journal Citation Reports/Scopus Q1	4.795
05.	Mónika H, László G, <u>Manikandan P</u> , Narendran V, Rita S, Csernetics Á, Csaba V, László K, Tamás P. South Indian Isolates of the <i>Fusarium solani</i> Species Complex From Clinical and Environmental Samples: Identification, Antifungal Susceptibilities, and Virulence. <i>Frontiers in Microbiology</i> 2018; 9:1052. DOI=10.3389/fmicb.2018.01052	Journal Citation Reports/Scopus Q1	4.076
06.	Homa M, <u>Manikandan P</u> , Saravanan V, Revathi R, Anita R, Narendran V, Panneerselvam K, Shobana CS, Aidarous MA, Galgóczy L, Vágvölgyi C, Papp T, Kredics L. <i>Exophiala dermatitidis</i> Endophthalmitis: Case Report and Literature Review. <i>Mycopathologia.</i> 2018 Jun;183(3):603-609. doi: 10.1007/s11046-017-0235-4.	Journal Citation Reports/Scopus Q3	1.710
07.	Ray KJ, Prajna NV, Lalitha P, Rajaraman R, Krishnan T, Patel S, Das M, Shah R, Dhakhwa K, McLeod SD, Zegans ME, Acharya NR, Lietman TM, Rose-Nussbaumer J; Mycotic Ulcer Treatment Trial Group. The Significance of Repeat Cultures in the Treatment of Severe Fungal Keratitis. <i>Am J Ophthalmol.</i> 2018 May;189:41-46. doi: 10.1016/j.ajo.2018.02.003. Epub 2018 Feb 10.	Journal Citation Reports/Scopus Q1	4.795
08.	Baranyi N, Kocsubé S, Jakšić Despot D, Šegvić Klarić M, Szekeres A, Bencsik O, Kecskeméti A, <u>Manikandan P</u> , Tóth B, Kredics L, Khaled JM, Alharbi NS, Vágvölgyi C, Varga J. Combined genotyping strategy reveals structural differences between <i>Aspergillus flavus</i> lineages from different habitats impacting human health. <i>J Basic Microbiol.</i> 2017 Sep 13. doi: 10.1002/jobm.201700243.	Journal Citation Reports/Scopus Q4	1.438
09.	Monika Lachmapure, Priti Paralikar, <u>Manikandan Palanisamy</u> , Monica Alves and Mahendra Rai. Efficacy of biogenic silver nanoparticles against clinical isolates of fungi causing mycotic keratitis in humans. <i>IET Nanobiotechnology</i> 2017;11:809-814. doi: 10.1049/iet-nbt.2017.0003	Journal Citation Reports/Scopus Q4	1.463
10.	Prajna NV, Krishnan T, Rajaraman R, Patel S, Shah R, Srinivasan M, Das M, Ray KJ, Oldenburg CE, McLeod SD, Zegans ME, Acharya NR, Lietman TM, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial Group</u> . Predictors of Corneal Perforation or Need for Therapeutic Keratoplasty in Severe Fungal Keratitis: A Secondary Analysis of the Mycotic Ulcer Treatment Trial II. <i>JAMA Ophthalmol.</i> 2017 Sep 1;135(9):987-991. doi: 10.1001/jamaophthalmol.2017.2914.	Journal Citation Reports/Scopus Q1	5.625
11.	Prajna NV, Krishnan T, Rajaraman R, Patel S, Shah R, Srinivasan M, Devi L, Das M, Ray KJ, O'Brien KS, Oldenburg CE, McLeod SD, Zegans ME, Acharya NR, Lietman TM, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial Group</u> . Adjunctive Oral Voriconazole Treatment of <i>Fusarium</i> Keratitis: A Secondary Analysis From the Mycotic Ulcer Treatment Trial II. <i>JAMA Ophthalmol.</i> 2017 Jun 1;135(6):520-525. doi: 10.1001/jamaophthalmol.2017.0616.	Journal Citation Reports/Scopus Q1	5.625

12.	Prajna NV, Krishnan T, Rajaraman R, Patel S, Srinivasan M, Das M, Ray KJ, O'Brien KS, Oldenburg CE, McLeod SD, Zegans ME, Porco TC, Acharya NR, Lietman TM, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial II Group</u> . Effect of Oral Voriconazole on Fungal Keratitis in the Mycotic Ulcer Treatment Trial II (MUTT II): A Randomized Clinical Trial. JAMA Ophthalmol. 2016 Dec 1;134(12):1365-1372. doi: 10.1001/jamaophthalmol.2016.4096.	Journal Citation Reports/Scopus Q1	5.625
13.	Sun CQ, Prajna NV, Krishnan T, Rajaraman R, Srinivasan M, Raghavan A, O'Brien KS, McLeod SD, Acharya NR, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial Group</u> . Effect of pretreatment with antifungal agents on clinical outcomes in fungal keratitis. Clin Exp Ophthalmol. 2016 Dec;44(9):763-767. doi: 10.1111/ceo.12794.	Journal Citation Reports/Scopus Q1	3.000
14.	Prajna NV, Lalitha P, Rajaraman R, Krishnan T, Raghavan A, Srinivasan M, O'Brien KS, Zegans M, McLeod SD, Acharya NR, Keenan JD, Lietman TM, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial Group</u> . Changing Azole Resistance: A Secondary Analysis of the MUTT I Randomized Clinical Trial. JAMA Ophthalmol. 2016 Jun 1;134(6):693-6. doi: 10.1001/jamaophthalmol.2016.0530.	Journal Citation Reports/Scopus Q1	5.625
15.	Rose-Nussbaumer J, Prajna NV, Krishnan KT, Mascarenhas J, Rajaraman R, Srinivasan M, Raghavan A, Oldenburg CE, O'Brien KS, Ray KJ, McLeod SD, Porco TC, Lietman TM, Acharya NR, Keenan JD; <u>Mycotic Ulcer Treatment Trial I Group</u> . Vision-Related Quality-of-Life Outcomes in the Mycotic Ulcer Treatment Trial I: A Randomized Clinical Trial. JAMA Ophthalmol. 2015 Jun;133(6):642-6. doi: 10.1001/jamaophthalmol.2015.0319.	Journal Citation Reports/Scopus Q1	5.625
16.	Sreekumar H, <u>Manikandan P</u> , Aiswariya P, Narendran V, Gomathi P, Priya R, Panneer Selvam K, Shobana CS. Prevalence and antimicrobial susceptibility pattern of staphylococci and streptococci causing ocular infections from a tertiary eye care hospital, South India. Biomedical Research 2016; 27 (3): 780-786.	Journal Citation Reports/Scopus Q4	0.226
17.	Hassan AS, Al-Hatmi AM, Shobana CS, van Diepeningen AD, Kredics L, Vágvölgyi C, Homa M, Meis JF, de Hoog GS, Narendran V, <u>Manikandan P</u> ; IHFK Working Group. Antifungal Susceptibility and Phylogeny of Opportunistic Members of the Genus Fusarium Causing Human Keratomycosis in South India. Med Mycol. 2016 Mar;54(3):287-94. doi: 10.1093/mmy/myv105.	Journal Citation Reports/Scopus Q3	2.644
18.	Krizsán K, Tóth E, Nagy LG, Galgóczy L, <u>Manikandan P</u> , Chandrasekaran M, Kadaikunnan S, Alharbi NS, Vágvölgyi C, Papp T. Molecular identification and antifungal susceptibility of <i>Curvularia australiensis</i> , <i>C. hawaiiensis</i> and <i>C. spicifera</i> isolated from human eye infections. Mycoses. 2015 Oct;58(10):603-9. doi: 10.1111/myc.12367.	Journal Citation Reports/Scopus Q2	2.332
19.	Homa M, Fekete IP, Böszörményi A, Singh YR, Selvam KP, Shobana CS, <u>Manikandan P</u> , Kredics L, Vágvölgyi C, Galgóczy L. Antifungal Effect of Essential Oils against <i>Fusarium</i> Keratitis Isolates. Planta Med. 2015 Sep;81(14):1277-84. doi:10.1055/s-0035-1546272.	Journal Citation Reports/Scopus Q2	2.342

20.	Kredics L, Narendran V, Shobana CS, Vágvölgyi C, <u>Manikandan P</u> ; Indo-Hungarian Fungal Keratitis Working Group. Filamentous fungal infections of the cornea: a global overview of epidemiology and drug sensitivity. <i>Mycoses</i> . 2015 Apr;58(4):243-60. doi: 10.1111/myc.12306.	Journal Citation Reports/Scopus Q2	2.332
21.	Shobana CS, Mythili A, Homa M, Galgóczy L, Priya R, Babu Singh YR, Panneerselvam K, Vágvölgyi C, Kredics L, Narendran V, <u>Manikandan P</u> . In vitro susceptibility of filamentous fungi from mycotic keratitis to azole drugs. <i>J Mycol Med</i> . 2015 Mar;25(1):44-9. doi: 10.1016/j.mycmed.2014.10.024.	Journal Citation Reports/Scopus Q4	1.269
22.	Prajna NV, Prajna L, O'Brien KS, Sun CQ, Acharya N, Lietman TM, Rose-Nussbaumer J; <u>Mycotic Ulcer Treatment Trial Group</u> . Association of pretreatment with antifungal medication and fungal resistance in the mycotic ulcer treatment trial I. <i>JAMA Ophthalmol</i> . 2015 Oct;133(10):1210-1. doi: 10.1001/jamaophthalmol.2015.2040.	Journal Citation Reports/Scopus Q1	5.625
23.	Jayasudha R, Narendran V, <u>Manikandan P</u> , Prabakaran SR. Identification of polybacterial communities in patients with postoperative, posttraumatic, and endogenous endophthalmitis through 16S rRNA gene libraries. <i>J Clin Microbiol</i> . 2014 May;52(5):1459-66. doi: 10.1128/JCM.02093-13.	Journal Citation Reports/Scopus Q2	4.232
24.	Shobana CS, Sreekumar H, Aiswariya P, Panneer Selvam K, Singh YRB, Gomathi P, <u>Manikandan P</u> . <i>Nocardia asteroides</i> ocular infection. <i>BMC Infectious Diseases</i> . 2014;14(Suppl 3):P2. doi:10.1186/1471-2334-14-S3-P2.	Journal Citation Reports/Scopus Q2	2.768
25.	Mythili A, Babu Singh YR, Priya R, Shafeeq Hassan A, <u>Manikandan P</u> , Panneerselvam K, Narendran V, Shobana CS. In vitro and comparative study on the extracellular enzyme activity of molds isolated from keratomycosis and soil. <i>Int J Ophthalmol</i> . 2014 Oct 18;7(5):778-84. doi: 10.3980/j.issn.2222-3959.2014.05.07.	Journal Citation Reports/Scopus Q4	1.177
26.	Sun CQ, Lalitha P, Prajna NV, Karpagam R, Geetha M, O'Brien KS, Oldenburg CE, Ray KJ, McLeod SD, Acharya NR, Lietman TM; <u>Mycotic Ulcer Treatment Trial Group</u> . Association between in vitro susceptibility to natamycin and voriconazole and clinical outcomes in fungal keratitis. <i>Ophthalmology</i> . 2014 Aug;121(8):1495-500.e1. doi: 10.1016/j.ophtha.2014.03.004.	Journal Citation Reports/Scopus Q4	8.204
27.	Homa M, Shobana CS, Singh YR, <u>Manikandan P</u> , Selvam KP, Kredics L, Narendran V, Vágvölgyi C, Galgóczy L. <i>Fusarium</i> keratitis in South India: causative agents, their antifungal susceptibilities and a rapid identification method for the <i>Fusarium solani</i> species complex. <i>Mycoses</i> . 2013 Sep;56(5):501-11. doi:10.1111/myc.12062.	Journal Citation Reports/Scopus Q2	2.332
28.	Lalitha P, Sun CQ, Prajna NV, Karpagam R, Geetha M, O'Brien KS, Cevallos V, McLeod SD, Acharya NR, Lietman TM; <u>Mycotic Ulcer Treatment Trial Group</u> . In vitro susceptibility of filamentous fungal isolates from a corneal ulcer clinical trial. <i>Am J Ophthalmol</i> . 2014 Feb;157(2):318-26. doi: 10.1016/j.ajo.2013.10.004.	Journal Citation Reports/Scopus Q1	5.052
29.	Prajna NV, Krishnan T, Mascarenhas J, Rajaraman R, Prajna L, Srinivasan M, Raghavan A, Oldenburg CE, Ray KJ, Zegans ME, McLeod SD, Porco TC, Acharya NR, Lietman TM; <u>Mycotic Ulcer Treatment Trial Group</u> . The mycotic ulcer treatment trial: a randomized	Journal Citation Reports/Scopus Q1	5.625

	trial comparing natamycin vs voriconazole. JAMA Ophthalmol. 2013 Apr;131(4):422-9.		
30.	Oldenburg CE, Lalitha P, Srinivasan M, <u>Manikandan P</u> , Bharathi MJ, Rajaraman R, Ravindran M, Mascarenhas J, Nardone N, Ray KJ, Glidden DV, Acharya NR, Lietman TM. Moxifloxacin susceptibility mediates the relationship between causative organism and clinical outcome in bacterial keratitis. Invest Ophthalmol Vis Sci. 2013 Feb 28;54(2):1522-6. doi: 10.1167/iops.12-11246.	Journal Citation Reports/Scopus Q1	3.661
31.	<u>Manikandan P</u> , Varga J, Kocsubé S, Anita R, Revathi R, Németh TM, Narendran V, Vágvölgyi C, Panneer Selvam K, Shobana CS, Babu Singh YR, Kredics L. Epidemiology of Aspergillus keratitis at a tertiary care eye hospital in South India and antifungal susceptibilities of the causative agents. Mycoses. 2013 Jan;56(1):26-33. doi: 10.1111/j.1439-0507.2012.02194.x.	Journal Citation Reports/Scopus Q2	2.332
32.	Lalitha P, Srinivasan M, <u>Manikandan P</u> , Bharathi MJ, Rajaraman R, Ravindran M, Cevallos V, Oldenburg CE, Ray KJ, Toutain-Kidd CM, Glidden DV, Zegans ME, McLeod SD, Acharya NR, Lietman TM. Relationship of in vitro susceptibility to moxifloxacin and in vivo clinical outcome in bacterial keratitis. Clin Infect Dis. 2012 May;54(10):1381-7. doi: 10.1093/cid/cis189.	Journal Citation Reports/Scopus Q1	9.416
33.	Srinivasan M, Mascarenhas J, Rajaraman R, Ravindran M, Lalitha P, Glidden DV, Ray KJ, Hong KC, Oldenburg CE, Lee SM, Zegans ME, McLeod SD, Lietman TM, Acharya NR; <u>Steroids for Corneal Ulcers Trial Group</u> . The steroids for corneal ulcers trial: study design and baseline characteristics. Arch Ophthalmol. 2012 Feb;130(2):151-7. doi: 10.1001/archophthalmol.2011.303.	Journal Citation Reports/Scopus Q1	4.399
34.	Srinivasan M, Mascarenhas J, Rajaraman R, Ravindran M, Lalitha P, Glidden DV, Ray KJ, Hong KC, Oldenburg CE, Lee SM, Zegans ME, McLeod SD, Lietman TM, Acharya NR; <u>Steroids for Corneal Ulcers Trial Group</u> . Corticosteroids for bacterial keratitis: the Steroids for Corneal Ulcers Trial (SCUT). Arch Ophthalmol. 2012 Feb;130(2):143-50. doi: 10.1001/archophthalmol.2011.315.	Journal Citation Reports/Scopus Q1	4.399
35.	Balasundaram MB, Andavar R, <u>Palanisamy M</u> , Venkatapathy N. Outbreak of acquired ocular toxoplasmosis involving 248 patients. Arch Ophthalmol. 2010 Jan;128(1):28-32. doi: 10.1001/archophthalmol.2009.354.	Journal Citation Reports/Scopus Q1	4.399
36.	<u>Manikandan P</u> , Varga J, Kocsubé S, Samson RA, Anita R, Revathi R, Dóczy I, Németh TM, Narendran V, Vágvölgyi C, Manoharan C, Kredics L. Mycotic keratitis due to Aspergillus nomius. J Clin Microbiol. 2009 Oct;47(10):3382-5. doi:10.1128/JCM.01051-09.	Journal Citation Reports/Scopus Q2	4.232
37.	Kredics L, Varga J, Kocsubé S, Rajaraman R, Raghavan A, Dóczy I, Bhaskar M, Németh TM, Antal Z, Venkatapathy N, Vágvölgyi C, Samson RA, Chockaiya M, <u>Palanisamy M</u> . Infectious keratitis caused by Aspergillus tubingensis. Cornea. 2009 Sep;28(8):951-4. doi: 10.1097/ICO.0b013e3181967098.	Journal Citation Reports/Scopus Q2	2.360
38.	Azor M, Gené J, Cano J, <u>Manikandan P</u> , Venkatapathy N, Guarro J.	Journal Citation	4.232

	Less-frequent <i>Fusarium</i> species of clinical interest: correlation between morphological and molecular identification and antifungal susceptibility. <i>J Clin Microbiol.</i> 2009 May;47(5):1463-8. doi: 10.1128/JCM.02467-08.	Reports/Scopus Q2	
39.	<u>Manikandan P</u> , Vismer HF, Kredics L, Dóczy I, Marasas WF, Bhaskar M, Anita R, Revathi R, Narendran V. Corneal ulcer due to <i>Neocosmospora vasinfecta</i> in an immunocompetent patient. <i>Med Mycol.</i> 2008 May;46(3):279-84.	Journal Citation Reports/Scopus Q3	2.644
40.	Kredics L, Varga J, Antal Z, Samson RA, Kocsubé S, Narendran V, Bhaskar B, Manoharan C, Vágvölgyi C and <u>Manikandan P</u> . Black <i>Aspergilli</i> in tropical infections. <i>Reviews in Medical Microbiology.</i> 2008; 19(3):65-78. doi: 10.1097/MRM.0b013e3283280391	Journal Citation Reports/Scopus Q4	1.000
41.	Singh G, Rajaraman R, Raghavan A, <u>Palanisamy M</u> . Bilateral conjunctival retention cysts in the aftermath of Stevens-Johnson syndrome. <i>Indian J Ophthalmol.</i> 2008 Jan-Feb;56(1):70-2.	Journal Citation Reports/Scopus Q4	0.994
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53.	Panneerselvam K, Nambirajan G, Annamalai B, Alaidarous M, Mohammed B, Bin Dukhyil A, Shobana CS, Manikandan P. Expression and production optimization of the cationic antimicrobial peptide - indolicidin by the recombinant E. coli C41 (DE3) clones. Acta Biologica Szegediensis. 2018;62:61-66. 10.14232/abs.2018.1.61-66.	Scopus	--
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58.	K. Panneer Selvam, Y.R.B. Singh, C.S. Shobana, N.K. Karunakaran, C. Vágvölgyi, L. Kredics and <u>P. Manikandan</u> . Extracellular Enzymes and Mycotoxins as Virulence Factors in Fusarium and Aspergillus Keratitis. Bioscience Biotechnology Research Asia. 2014;11 (2): 479-490.	Scopus	--
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Non-indexed journals			
62.	Nambirajan G, Shobana CS, Manikandan P, Panneer Selvam K. Pheno and genotypic screening of mec A among carrier Methicillin Resistant <i>Staphylococcus aureus</i> (MRSA). <i>J. Sci. Trans. Environ. Techno</i> . 2017, 11(1): 29-32	--	--
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64.	László G, Homa M, Tamás P, <u>Manikandan P</u> and Vágvölgyi C. In Vitro Antifungal Activity of Cysteine Derivatives and their Combinations with Antifungal Agents Against Clinically Relevant <i>Scedosporium</i> species. <i>Int J Clin Med Microbiol</i> 2016, 1: 111.	--	--
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67.	Shobana CS, Panneer Selvam K, Anitha I, Babu Singh, Mythili A, <u>Manikandan P</u> . A comparative study of Minimum Inhibitory Concentration (MIC) values of amphotericin - B and natamycin for <i>Fusarium</i> isolates on Sabouraud's Dextrose Broth (SDB) and RPMI - 1640 by broth Microdilution Method. <i>International Journal of Research in Engineering and Bioscience</i> . 2013; 1(2):1-7.	--	--
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69.	Panneer Selvam K, Shobana CS, Ravikumar K, <u>Manikandan P</u> , Rajendran R, et al. Evaluation of Various Axenic and Monoxenic Media on the Cultivation of <i>Acanthamoeba</i> <i>International Journal of Biotechnology and Biochemistry</i> . 2011; 7(1):73-80.	--	--
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Book Chapters			
1.	Palanisamy Manikandan, Coimbatore Subramanian Shobana, Mónika Homa, Sándor Kocsubé, János Varga, Muthusamy Chandrasekaran, Naiyf S. Alharbi, Venkatapathy Narendran, Csaba Vágvolgyi, László Kredics. Edited by Dongyou Liu. Chapter 34 Fusarium: Laboratory Models for Foodborne Infections. 2017. CRC Press. ISBN 9781498721677		
2.	László Kredics, János Varga, Rajagopalaboopathi Jayasudha, Sándor Kocsubé, Nikolett Baranyi, Coimbatore Subramanian Shobana, Muthusamy Chandrasekaran, Shine Kadaikunnan, Venkatapathy Narendran, Csaba Vágvolgyi, <u>Palanisamy Manikandan</u> . Edited by Dongyou Liu. Chapter 31 Aspergillus: Laboratory Models for Foodborne Infections. 2017. CRC Press. ISBN 9781498721677.		
3.	Medical Mycology: Past, Present and Future Krizsán Krisztina, Papp Tamás, Manikandan Palanisamy, Shobana CS, Chandrasekaran M, et al. Razzaghi-Abyaneh M, Shams-Ghahfarokhi M, Rai M, editors. USA: Taylor & Francis Group, LLC; 2015. Chapter 7, Clinical Importance of the Genus Curvularia; p.147-206. ISBN 13: 978-1-4987-1422-8.		
4.	<u>Manikandan P</u> , Vágvolgyi C, Narendran V, Panneer Selvam K, Kredics L (2011) Chapter 54: Neocosmosporas. In: Liu D (Ed.) Molecular Detection of Human Fungal Pathogens, London: Taylor & Francis Group, pp. 449-458. ISBN 13: 978-1-4398-1241-9.		
5.	<u>Manikandan P</u> , Galgóczy L, Panneer Selvam K, Shobana S, Kocsubé S, Vágvolgyi C, Narendran V, Kredics L (2011) Chapter 51. Fusarium. In: Liu D (Ed.) Molecular Detection of Human Fungal Pathogens, London: Taylor & Francis Group, pp. 417-433. ISBN 13: 978-1-4398-1241-9.		
6.	Manikandan P, Dóczy I, Kocsubé S, Varga J, Német TM, Antal Z, Vágvolgyi C, Bhaskar M and Kredics L (2008) Aspergillus species in human keratomycosis. In: Varga J and Samson R (eds): Aspergillus in the genomic era (ISBN 978-90-8686-065-4). Wageningen Academic Publishers, the Netherlands, pp. 293-328.		

Reviewer in peer reviewed journals:

Acta Biologica Szegediensis
Mycoses
Medical mycology
Mycopathologia
PLoS One
Journal of Ophthalmology
Saudi Journal of Biological Sciences
Journal of Clinical Diagnostic Research
Electronic Journal of Biotechnology
Chemistry Today
Canadian Journal of Ophthalmology

Guest editor:

Ocular Infections: Clinical and Microbial Diagnosis, Treatment, and Epidemiology
Journal of Ophthalmology 2016.
(Impact Factor 1.425)

Member in Editorial board:

Acta Biologica Szegediensis
International peer-reviewed journal edited by the University of Szeged. (ISSN 1588-385X print form; ISSN 1588-4082 online form)

Editorial assistant:

SIHAM MYCOSES Newsletter - Society for Indian and Human Animal Mycologists, India

Guest lectures:

- Guest Lecture - Research on fungal infections: ICMR Sponsored One Day National Seminar: A special emphasis on ocular fungal infections. Awareness on pathogen carriage, prevention, and personal health promotion among rural adolescent learners of higher education. M.R. Government Arts College, Mannargudi, India. 28 July 2017.
- Semi plenary speaker - Mycotic Keratitis – A Silent stealer of vision. 6th Hungarian Microbiology Conference, Szeged, Hungary, 3-5, July 2017.
- Speaker - Drug resistance in ocular fungal pathogens - 11th National Conference of Society for Human and Animal Mycologists (SIHAM), Shimla, HP, India, 18-20, March 2016.
- Guest lecture - Research on fungal infections with a special emphasis on ocular fungal infections - Department of Biotechnology, Dr. NGP Arts and Science College, Coimbatore, India, 18th July 2014.
- Lead lecture - Emerging Fungal Infections with special emphasis on ocular fungal infections - Seminar titled “Newly emerging pathogens, Epidemic Diseases and Their Management Challenges”, Research Department of Microbiology, M.R. Government Arts College, Mannargudi, Thanjavur, Tamilnadu, India, 14th March 2014.
- Guest lecture - Aspergillus Keratomycoses - UGC sponsored “Special Lecture Programme in Microbiology” on 24th September 2012, PSG college of Arts and Science College, Coimbatore, India.
- Guest lecture - Role of soil-borne microorganisms in eye infections - SOILMAP project closing event on 22nd June 2012, Department of Microbiology, Faculty of Science and Bioinformatics, Szeged, Hungary.
- Guest talk - Career motivation - Alumni meeting, Alumni Association of Muthayammal College of Arts & Science, Rasipuram, 23rd December 2011.

- Guest talk - Identification of *Aspergillus* species by DNA sequencing methods - Workshop on “Molecular Diagnostic Methods For Ocular And Systemic Pathogens”, Aravind Medical Research Foundation, Madurai 31st October to 5th November 2011.
- Guest talk - Molecular Diagnosis of Ocular Toxoplasmosis - CME on “Molecular Diagnosis in Ocular Infections”, Aravind Eye Hospital, Tirunelveli between 12-13, February 2011.
- Guest talk - Aspergillus species in Human Keratomycoses - CME on “Ocular Infections 2011” Aravind Eye Hospital, Tirunelveli on 23rd July, 2011.

Membership in professional bodies:

- Member in Society for Indian Human and Animal Mycology (SIHAM), India
- Member in International Society for Human and Animal Mycology (ISHAM)
- Young Investigator Member in International Society for Eye Research (ISER), USA
- Member in Pan African Medical Mycology Society, South Africa

Certificate in Basic Life Support:

c- eCertificate ID: 00104410460686

Valid up to: 10.02.2018

Training:

- Undergone training in various molecular and analytical techniques at the Department of Microbiology, Faculty of Science, University of Szeged, Szeged, Hungary, 2007-2015.
- Undergone training on International Conference on Harmonization (ICH)-Good Clinical (Research) Practice (GCP) guidelines & investigator’s responsibilities, conducted by SIRO Clinipharm Pvt. Ltd, India, in Aravind Eye Hospital, Coimbatore on 12th October-2004.
- Undergone training on Polymerase chain reaction, anaerobic culture and Tissue culture at LV Prasad Eye Institute, Hyderabad from 12 th to 17 th July 2004.

Clinical study coordinator (drug trials):

- A 21-day Pilot, multicenter, investigator-masked, randomized, parallel comparison of the safety & efficacy of Gatifloxacin 0.3% ophthalmic solution compared with Ciprofloxacin 0.3% Ophthalmic solution in patients with acute bacterial corneal ulcers. (Allergan, USA). Aravind Eye Hospital, Coimbatore, India.
- A Phase 3, open labeled, multicentric, parallel group, randomised and comparative study to evaluate the safety and efficacy of Olopatadine ophthalmic solution 0.1% compared to Ketotifen fumarate 0.025% ophthalmic solution in patients with allergic conjunctivitis (Alcon Research Ltd, USA). Aravind Eye Hospital, Coimbatore, India.
- An Evaluation of the Safety and Efficacy of Moxifloxacin AF Ophthalmic Solution 0.5% for the Treatment of Bacterial Conjunctivitis in India. (Alcon Research Ltd, USA). Aravind Eye Hospital, Coimbatore, India.

Computer skills:

MAC OS X, WINDOWS, MS Office, Photoshop, Adobe Illustrator, Basic hardware, browsing, molecular phylogenetic software, Laboratory Management software and wave editor, etc.

Nucleotide sequence data submitted to NCBI genbank (accession numbers):

Total number of Fungal species: 291

Total number of Bacterial species: 106

<i>Fusarium solani</i> (122)	HE648033.1;HE648032.1;HE648031.1;HE648030.1;HE648029.1;HE648028.1;HE648027.1;HE648026.1;HE648025.1;HE648024.1;HE648023.1;HE648022.1;HE648021.1;HE648020.1;HE648019.1;HE648018.1;HE648017.1;HE648016.1;HE648015.1;HE648014.1;HE648013.1;HE648012.1;HE648011.1;HE648010.1;HE648009.1;HE648008.1;HE648007.1;HE648006.1;HE648005.1;HE648004.1;HE648003.1;HE648002.1;HE648001.1;HE648000.1;HE647999.1;HE647998.1;HE647997.1;HE647996.1;HE647995.1;HE647994.1;HE647993.1;HE647992.1;HE647991.1;HE647990.1;HE647989.1;HE647988.1;HE647987.1;HE647986.1;HE647985.1;HE647984.1;HE647982.1;HE647981.1;HE647980.1;HE647979.1;HE647977.1;HE647976.1;HE647975.1;HE647974.1;HE647973.1;HE647972.1;HE647971.1;HE647962.1;HE647961.1;HE647960.1;HE647959.1;HE647958.1;HE647957.1;HE647956.1;HE647955.1;HE647954.1;HE647953.1;HE647952.1;HE647951.1;HE647950.1;HE647949.1;HE647948.1;HE647947.1;HE647946.1;HE647945.1;HE647944.1;HE647943.1;HE647942.1;HE647941.1;HE647940.1;HE647939.1;HE647938.1;HE647937.1;HE647936.1;HE647935.1;HE647934.1;HE647933.1;HE647932.1;HE647931.1;HE647930.1;HE647929.1;HE647928.1;HE647927.1;HE647926.1;HE647925.1;HE647924.1;HE647923.1;HE647922.1;HE647921.1;HE647920.1;HE647919.1;HE647918.1;HE647917.1;HE647916.1;HE647915.1;HE647914.1;HE647913.1;HE647911.1;HE647910.1;HE647909.1;HE647908.1;HE647906.1;HE647905.1;HE647904.1;HE647903.1;HE647902.1;HE647901.1;HE647900.1
<i>Fusarium</i> Spp. (139)	HF570005.1;HF570004.1;HF570003.1;HF570002.1;HF570001.1;HF570000.1;HF569999.1;HF569998.1;HF569997.1;HF569996.1;HF569995.1;HF569993.1;HF569992.1;HF569991.1;HF569990.1;HF569989.1;HF569988.1;HF569987.1;HF569986.1;HF569984.1;HF569983.1;HF569982.1;HF569981.1;HF569979.1;HF569978.1;HF569976.1;HF569975.1;HF569973.1;HF569972.1;HF569970.1;HF569969.1;HF569968.1;HF569967.1;HF569966.1;HF569965.1;HF569964.1;HF569963.1;HF569962.1;HF569961.1;HF569960.1;HF569959.1;HF569957.1;HF569955.1;HF569953.1;HF569951.1;HF569949.1;HF569947.1;HF569945.1;HF569943.1;HF569941.1;HF569939.1;HF569938.1;HF569937.1;HF569936.1;HF569935.1;HF569934.1;HF569933.1;HF569932.1;HF569931.1;HF569930.1;HF569929.1;HF569928.1;HF569926.1;HF569925.1;HF569924.1;HF569923.1;HF569922.1;HF569921.1;HF569920.1;HF569919.1;HF569916.1;HF569915.1;HF569914.1;HF569912.1;HF569911.1;HF569909.1;HF569908.1;HF569906.1;HF569905.1;HF569903.1;HF569902.1;HF569901.1;HF569900.1;HF569899.1;HF569898.1;HF569897.1;HF569896.1;HF569895.1;HF569894.1;HF569893.1;HF569892.1;HF569890.1;HF569888.1;HF569886.1;HF569884.1;HF569882.1;HF569880.1;HF569878.1;HF569876.1;HF569874.1;HF569872.1;HF569917.1
<i>Fusarium delphinoides</i> (12)	HF569994.1;HF569985.1;HF569980.1;HF569977.1;HF569974.1;HF569971.1;HF569927.1;HF569918.1;HF569913.1;HF569910.1;HF569907.1;HF569904.1
<i>Fusarium napiforme</i> (6)	HF570006.1;HE984150.2;HE984153.2;HE984152.2;HE984151.1;HE984154.1
<i>Nectria haematococca</i> mpVI (6)	HE648039.1;HE648038.1;HE648037.1;HE647968.1;HE647967.1;HE647966.1

<i>Fusarium phaseoli</i> (6)	HE648036.1;HE648035.1;HE648034.1;HE647965.1;HE647964.1;HE647963.1
<i>Neocosmospora vasinfecta</i> (1)	EF373539.1
Uncultured bacterium (26)	Uncultured Gemella sp. (2)
Uncultured Streptococcus sp. (19)	Uncultured Pantoea sp. (2)
Uncultured Bacillus sp. (14)	Uncultured Exiguobacterium sp. (1)
Uncultured Serratia sp. (12)	Uncultured Enterococcus sp. (1)
Uncultured Pseudomonas sp. (11)	Uncultured Clostridium sp. (1)
Uncultured Staphylococcus sp. (5)	Uncultured Haemophilus sp. (1)
Uncultured Enterobacter sp. (5)	Uncultured Massilia sp. (1)
Uncultured Acinetobacter sp. (4)	Uncultured Nocardia sp. (1)

KF261307.1;KF261306.1;KF261305.1;KF261304.1;KF261303.1;KF261302.1;KF261301.1;KF261300.1;KF261299.1;KF261298.1;KF261297.1;KF261296.1;KF261295.1;KF261294.1;KF261293.1;KF261292.1;KF261291.1;KF261290.1;KF261289.1;KF261288.1;KF261287.1;KF261286.1;KF261285.1;KF261284.1;KF261283.1;KF261282.1;KF261281.1;KF261280.1;KF261279.1;KF261278.1;KF261277.1;KF261276.1;KF261275.1;KF261274.1;KF261273.1;KF261272.1;KF261271.1;KF261270.1;KF261269.1;KF261268.1;KF261267.1;KF261266.1;KF261265.1;KF261264.1;KF261263.1;KF261262.1;KF261261.1;KF261260.1;KF261259.1;KF261258.1;KF261257.1;KF261256.1;KF261255.1;KF261254.1;KF261253.1;KF261252.1;KF261251.1;KF261250.1;KF261249.1;KF261248.1;KF261247.1;KF261246.1;KF261245.1;KF261244.1;KF261243.1;KF261242.1;KF261241.1;KF261240.1;KF261239.1;KF261238.1;KF261237.1;KF261236.1;KF261235.1;KF261234.1;KF261233.1;KF261232.1;KF261231.1;KF261230.1;KF261229.1;KF261228.1;KF261227.1;KF261226.1;KF261225.1;KF261224.1;KF261223.1;KF261222.1;KF261221.1;KF261220.1;KF261219.1;KF261218.1;KF261217.1;KF261216.1;KF261215.1;KF261214.1;KF261213.1;KF261212.1;KF261211.1;KF261210.1;KF261209.1;KF261208.1;KF261207.1;KF261206.1;KF261205.1;KF261204.1;KF261203.1;KF261202.1

Culture Deposition Details:



WESTERDIJK
FUNGALBIO
DIVERSITY
INSTITUTE

(CBS-KNAW culture collection (The Westerdijk Fungal Biodiversity Institute), Netherlands

Uncommon Fungal Species

Neocosmospora vasinfecta
CBS 121152

Aspergillus tubingensis
CBS 122719
CBS 122725

Aspergillus brasiliensis
CBS 122724
CBS 122723

Aspergillus nomius
CBS 123901

Aspergillus tamarii
CBS 121598, CBS 138797, CBS 139344, CBS 139348, CBS 139350

Aspergillus pseudonomius

CBS 123902

Other fungi

A. flavus

CBS 138791, CBS 138792, CBS 138793, CBS 138794, CBS 138796, CBS 138798, CBS 138799, CBS 138800, CBS 139338, CBS 139339, CBS 139340, CBS 139341, CBS 139345, CBS 139346, CBS 139349, CBS 139351

Aspergillus terreus

CBS 139347

A. fumigatus

CBS 138795, CBS 139342, CBS 139343

Fusarium falciforme

CBS 138801, CBS 138804, CBS 138806, CBS 138807, CBS 138808, CBS 138810, CBS 138812, CBS 138813, CBS 138814, CBS 139353, CBS 139354, CBS 139356, CBS 139357, CBS 139358, CBS 139359, CBS 139360, CBS 139361, CBS 139362, CBS 139460

Fusarium keratoplasticum CBS 138809; *Fusarium fujikuroi* species complex CBS 138802; *Fusarium solani* species complex CBS 138803, CBS 138805, CBS 138811; *Fusarium delphinoides* CBS 139355; *Curvularia lunata* CBS 139492; *Acrophialophora levis* CBS 139494; *Curvularia australiensis* CBS 139495; *Exserohilum rostratum* CBS 139498



Aspergillus tamarii
IHEM 22813

SZMC

Szeged Microbiology Collection

**Szeged Microbiological Collection (SZMC), University of Szeged,
Hungary**

A. flavus

SZMC 3124, SZMC 3125, SZMC 3050, SZMC 3052, SZMC 3059, SZMC 3062, SZMC 3063, SZMC 3066, SZMC 3068, SZMC 3069, SZMC 3070, SZMC 3071, SZMC 3086, SZMC 3087, SZMC 3089, SZMC 22426, SZMC 22427, SZMC 22428, SZMC 22429, SZMC 22433, SZMC 22434, SZMC 22436, SZMC 22437, SZMC 22438, SZMC 22442, SZMC 22445, SZMC 22446, SZMC 22447, SZMC 22457, SZMC 22469

Fusarium solani

SZMC 11547, SZMC 11506, SZMC 11541, SZMC 11546, SZMC 11511, SZMC 11500, SZMC 11502, SZMC 11538, SZMC 11524, SZMC 11542, SZMC 11512, SZMC 11532, SZMC 11533, SZMC 11537, SZMC 11544, SZMC 11479, SZMC 11516, SZMC 11480, SZMC 11475, SZMC 11527, SZMC 11477, SZMC 11490, SZMC 11536, SZMC 11519, SZMC 11530, SZMC 11515, SZMC 11528

Research Grants received:

Project 1:

Project Title : New Approaches for the diagnosis and therapy of mycotic keratitis
Designation : Principle Investigator
Funding Agency : Indian National Science Academy (INSA), New Delhi, India
Duration : Three Years (2012-2015)
Project value : 4,50,000 INR

Project 2:

Project Title : Multiplex polymerase chain reaction based detection and identification of *Fusarium* and *Aspergillus*, and evaluation of their antifungal susceptibilities from patients with keratomycosis attending a tertiary care eye hospital
Designation : Principle Investigator
Funding Agency : Indian Council of Medical Research (ICMR), New Delhi, India
Duration : Three Years (2010-2012)
Project value : 18,00,000 INR

Project 3:

Project Title : Identification, Biodiversity, mycotoxin production and antifungal Susceptibilities of *Fusarium* strains Isolated from keratomycosis
Designation : Principle Investigator
Funding Agency : Indian National Science Academy (INSA), New Delhi, India
Duration : Three Years (2010-2012)
Project value : 4,83,000 INR

Project 4:

Project Title : Identification, biodiversity, antifungal susceptibilities and mycotoxin production of *Aspergillus* and *Fusarium* strains isolated from patients with keratomycosis in south India
Designation : Principle Investigator
Funding Agency : Department of Science Technology (DST), New Delhi, India
Duration : Two Years (2008 - 2009)
Project value : 3,70,000 INR

Project 5:

Project Title : Identification, biodiversity, antifungal susceptibilities and mycotoxin production of aspergilli, fusaria and zygomycetous fungi isolated from patients with keratomycosis in South India
Designation : Principle Investigator
Funding Agency : Indian National Science Academy (INSA), New Delhi, India
Duration : Two Years (2007 - 2009)

Project value : 4,83,000 INR

Conference Grants Received:

Conference : 10th National Conference of Society for Indian Human and Animal Mycologists (SIHAM2014)

Role : Organizing Secretary

Date and place of event: 10-12, January 2014, Hote Le Méridien, Coimbatore, India

Funding Agency -1 : The Company of Biologists, United Kingdom

Fund value : 4000 British pound

Funding Agency - 2 : International Society for Human and Animal Mycology (ISHAM),
The Netherlands

Fund value : 5000 Fr

Funding Agency - 3 : Indian Council of Medical Research (ICMR), New Delhi, India

Fund value : 1,00,000 INR

Funding Agency - 4 : Department of Biotechnology (DBT), New Delhi, India

Fund value : 1,00,000 INR

Funding Agency - 5 : Department of Science and Technology (DST), New Delhi, India

Fund value : 75,000 INR

Funding Agency - 6 : Council for Scientific and Industrial Research (CSIR), New Delhi,
India

Fund value : 50,000 INR

Funding Agency- 7 : Indian National Science Academy (INSA), New Delhi, India

Fund value : 20,000 INR

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Wife's Name : O. Kalaivani
Wife's Profession : Senior Editor, Medical Transcription
Daughter's Name : M. Saadhana
Daughter's age : 10 years