

Resume

Dr. ABDUL KHAYUM

Associate Professor,
Department of Botany,
Al-Ameen Arts, Science and Commerce College,
Bangalore: 560 027.
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Education Qualification

➤ **Doctor of Philosophy (Ph.D)**

Institution : Bangalore University, Bangalore.
Subject : Environmental Science (Environmental Microbiology).
Year : 2012.

➤ **Master of Science (M.Sc)**

Institution : Bangalore University, Bangalore.
Subject : Botany (Plant Pathology and Microbiology).
Percentage : 60.3%
Year : 1987

➤ **Bachelor of Science (B.Sc)**

Institution : Al-Ameen Arts, Science and Commerce College, Bangalore.
Subject : Chemistry, Botany and Zoology
Percentage : 57.0%
Year : 1984

➤ **Bachelor of Science (RS-B.sc)**

Institution : V.V Puram Science College, Bangalore.
Subject : Additional Physics
Percentage : 56.0%
Year : 1985

TITLE OF Ph.D DISSERTATION

"Ecological and Genomic Characterization of Metal Resistance and Multiple Antibiotic Resistance Bacteria in Drinking Water and Their Inactivation"

Extra Qualifications

- Certificate Course in Kannada, From Bangalore University, Bangalore. (1988).
- The Fellow Society of Sciences (F.S.Sc)

- Fellow of Society for Environment and Development, India (FSED).

Professional Trainings Attended

- Refresher course in Botany Participated from 06.01.2000 to 28.01.2000, Organized by University Grants Commission Academic Staff College University of Mysore.
- Refresher course in Botany Participated from 16.08.2000 to 05.09.2000, Organized by University Grants Commission Academic Staff College Karnatak University Dharwad.
- Orientation course Participated from 05.03.2001 to 01.04.2001, Organized by University Grants Commission Academic Staff College Bangalore University Bangalore.
- Refresher course in Botany Participated from 15.10.2001 to 07.11.2001, Organized by University Grants Commission Academic Staff College Kuvempu University Shankaraghatta Shimoga.
- Refresher course in Botany Participated from 28.03.2005 to 18.04.2005, Organized by University Grants Commission Academic Staff College Bangalore University Bangalore.
- Orientation course for College Teachers Participated from 06.06.1990 to 12.06.1990, Organized by Al-Ameen Arts, Science and Commerce College, Bangalore.
- Orientation course for College Teachers Participated from 04.06.1991 to 12.06.1991, Organized by Al-Ameen Arts, Science and Commerce College, Bangalore.
- Orientation course for College Teachers Participated from 03.06.1992 to 10.06.1992, Organized by Al-Ameen Arts, Science and Commerce College, Bangalore.
- Orientation course for College Teachers Participated from 28.06.1993 to 30.06.1993, Organized by Al-Ameen Arts, Science and Commerce College, Bangalore.

Teaching Experience

- Have worked as Lecturer in Department of Botany and Microbiology, Al-Ameen Arts, Science and Commerce College, B, lore from 1987-1988 on Leave vacancy of Dr. Najma Bano.
- Presently Working as Associate Professor (UGC Scale) at Department of Botany, Al-Ameen Arts, Science and Commerce College, B, lore/Government College for Women Kolar from July 1989 to till date.

Area of Interest

- Physico-Chemical, Biological Properties of Water.
- Biofilm and Biocorrosion Causing Organism.
- Sensitivity with Antibiotics with respect to Biofilm formation in Water.
- Isolate Multiple Antibiotic Resistant (MAR) and their transformation frequency at invitro conditions.
- Biocides and their inactivation on Biofilm and biocorrosion organism.
- Genomic characterization of Iron bacteria isolated from drinking water distribution system.
- Chromatographic techniques.
- Word processing and documentation, statistical analysis, visual presentations using MS-Word, and Power point.
- Teaching through ICT.
- Software installation.
- Internet access for online education tools.

Research Publications

International:

- ✚ Amzad Basha Kolar, **Abdul Khayum** and Sabiha Sultana, M.
A MODIFIED CTAB DNA EXTRACTION PROCEDURE FOR PLANTS BELONGING TO THE FAMILY SAPINDACEAE, *International Journal of Development Research* Vol. 6, Issue, 02, pp. 6943-6946, February, 2016

✚ Nandini.N, Durgesh.R, **Abdul Khayum** (2009), Consortium of *Pseudomonas aeruginosa* & *Desulfovibrio desulphuricans* EPS Development and Influence of Corrosion of GI Pipes. (Paper accepted in) “CORROSION 2009 EXPO & CONFERENCE” , held at Georgia World Congress Center, in Atlanta, USA, March 22-26; Conference organized by the National Association of Corrosion Engineers (NACE) International.

National Level:

✚ **Abdul Khayum**, Amzad Basha Kolar, Shaheen Taj and M. Shareef Khan. Efficacy of different plant extract on Iron Oxidizing and Iron Reducing Bacteria Isolated from Isolated from Drinking water of Bangalore City. Presented at two days UGC sponsored National seminar on “ Environmental Degradation and its Effects on Sustenance of Life” organized by Department of Botany, GFGC in association with KSPCB, B,lore held on 4th&5th of March 2016 at GFGC, Vijayanagara, B,lore. ISBN: 978-81-910657-9-4

✚ Shaheen Taj, **Abdul Khayum**, Ishrath Jabeen & Seema Roohi. Environmental Assessment of Plant based corrosion inhibitor for oil& gas Industry. Presented at two days UGC sponsored National seminar on “ Environmental Degradation and its Effects on Sustenance of Life” organized by Department of Botany, GFGC in association with KSPCB, B,lore held on 4th&5th of March 2016 at GFGC, Vijayanagara, B,lore. ISBN: 978-81-910657-9-4

✚ **Abdul Khayum**, Amzad Basha Kolar and Nandini N. Antimicrobial Activity of Curcumin on Multiple Antibiotic Resistant (MAR) and Biofilm forming *Pseudomonas aeruginosa* Isolated from Drinking water of Bangalore City. Presented at two days UGC sponsored National seminar on “ Environmental Degradation and its Effects on Sustenance of Life” organized by Department of Botany, GFGC in association with KSPCB, B,lore held on 4th&5th of March 2016 at GFGC, Vijayanagara, B,lore. ISBN: 978-81-910657-9-4

- ✚ **Abdul Khayum.**, N.Nandini and Amzad Basha Kolar, 2013. Antimicrobial Activity of Medicinal Plants Against Gram Positive and Gram Negative Bacteria Isolated From Drinking Water of Bangalore City. National Conference on Microbial Technology for Sustainable Development, January-2013 AB-029-41.
- ✚ Amzad Basha Kolar., M. Ghouse Basha and **Abdul Khayum**, 2013. Isolation and Characterization of Pesticide Degrading Bacterial Species from Soil Sample of Nilgiri District. National Conference on Microbial Technology for Sustainable Development, January-2013 AB-085-97.
- ✚ **Abdul Khayum.**, N. Nandini, J.S. Chandrashekar, R. Durgesh 2011. Assessment of Drinking Water Quality of Bangalore West Zone, India - A case study, Environment & We: An International Journal of Science & Technology, 6: 113-122.
- ✚ **Abdul Khayum.**, N.Nandini, Durgesh.R and Pavithra S. Reddy 2011. Assessment of Drinking Water Quality in Bangalore South Central Zone, Karnataka, India. Nature Environment and Pollution Technology, An International Scientific Journal (Vol 10), no 2 pp285-287
- ✚ Nandini.N, Sucharita Tandon, **Abdul Khayum**, and Durgesh.R. 2010. Green canopy near Bangalore. A case study, presented at xxxi Indian geographers' meet. International conference on environment, agriculture and food security in India, February 19-21, 2010, P.G. Department of Geography, Bangalore University, Bangalore.
- ✚ **Abdul Khayum**, Nandini.N, Durgesh.R, (2010), Antimicrobial Resistance Desulfovibrio spp, and Iron bacteria Isolated from Drinking Water of Bangalore Urban District. National Conference on Developmental Biology, NACON D. BIO 2010 organized by Department of Botany, Bangalore University, Bangalore on 15-17th Sept, 2010.
- ✚ Nandini.N, Sucharita Tandon, **Abdul Khayum**, and Durgesh.R. 2010. A Green Canopy near Bangalore. Everyman's Science. 45(2). 93-95.
- ✚ Nandini.N, **Abdul Khayum**, Durgesh R, Anuppamma, B.S and Aboud S Jumbe, (2009). Effect of liquid waste (untreated effluents) of Bangalore

hospitals on the environment – A case study. Proceedings of the national seminar on “emerging trends in environment and development with a focal theme on climate change and water resources.

- ✚ Nandini.N, Pattusamy V, Aboud S Jumbe, Sucharita Tandon, Durgesh R, **Abdul Khayum**, Pavithra S Reddy and Kumar M. 2009. Environmental and green Profile of Bangalore; in the abstract of the EcoWorkshop on Urban Ecosystem – A sustainable future, organized in collaboration with Agenda for Bangalore Infrastructure and Development Task Force (ABIDE) and Bangalore University. 25/10/2009.
- ✚ **Abdul Khayum**, Nandini.N, Durgesh.R, (2009), Antimicrobial Resistance *Desulfovibrio* spp, and *Pseudomonas aeruginosa* from Drinking Water of Bangalore City, in the abstract of the “Current Trends in Environmental Science and Sustainable Development” NCESD-2009.Organised by Department of Studies in Environmental Science University of Mysore Manasagangorti Mysore.

Poster Presentations:

- ✚ Nandini, N., Durgesh, R., **Abdul Khayum**, 2010. Assessment of Drinking water quality of Bangalore west zone – A case study. National Conference on Developmental Biology, NACON D. BIO 2010 organized by Department of Botany, Bangalore University, Bangalore on 15-17th Sept, 2010.

Seminars and Workshops Attended

- ✚ Symposium in Microbiology on 1st& 2nd March 1992, Organize by Rotaract Club of Bangalore and Al-Ameen Arts, Science and Commerce College, Bangalore.
- ✚ Symposium in Microbiology Biovision-93 on 06st& 07nd Feb 1993, Organize by Rotaract Club of Bangalore, Jayanagar.
- ✚ Symposium in Biology Biovision-94 on 05th 06th Feb 1994, Organize by Rotaract Club of Bangalore, Jayanagar and Indian National Science Academy Bangalore Chapter.

- ✚ Symposium in Microbiology Biotract on 18st& 19th January 1996, Organize by Association of Microbiologists, P.E.S. College Club of Bangalore.
- ✚ Orientation Training Programs in Biology was held on 26 to 29.07 1995 Organized by Department of Pre-University Education, Bangalore Government of Karnataka held at St.Anne P.U College Millers Road Bangalore-52.
- ✚ Workshop in Microbiology Section of Revised syllabus of First degree Botany, Conducted by Bangalore Botanical Society on 28th Feb 1998, held at Al-Ameen Arts, Science and Commerce College, Bangalore.
- ✚ Workshop in Practical IV (Physiology) Section of Revised syllabus of Final B.sc. in Botany Conducted by Bangalore Botanical Society on 18th September 1999, held at St. Josephs Arts & Science College, Bangalore.
- ✚ Seminar on Microbial Biodiversity and Applications held at Yavanika Bangalore on 12th Oct 2000, organized by Micro-Bio- Forum Bangalore University Bangalore.
- ✚ Symposium and Workshop on Angiosperm Taxonomy Conducted by Sasya Vinyasa Department of Life Sciences on 19th&20th September 2003 Organized by Sri Bhagawan Mahaveer Jain College Bangalore.
- ✚ National Seminar on New Horizons in Environmental Sciences and Engineering in India on 17th-19th November 2004 Organized by Department of Environmental Science Bangalore University, Bangalore 560056.
- ✚ XXXI Annual Conference of Institute of Indian Geographers 19th-21st Feb 2010 Organized by P.G Dept. of Geography Bangalore University, B, lore- 560056.
- ✚ Workshop on Accelerating Research Discovery and Innovation, 26th April 2010, Organize by University Library, In Collaboration with Thomson Reuters held at Bangalore University Bangalore.
- ✚ “Training Program on Municipal Solid Waste Dump Site, Physico- Chemical and Microbial Sampling and Analysis” 27th-31st July 2010 Organized by Department of Environmental Science, Bangalore University, B,lore 560056.
- ✚ National Conference on Developmental Biology NACON D BIO-2010, 15th-17th Sept. 2010 Organized by Dept. of Botany, (Sponsored by UGC-SAP) Bangalore University Bangalore.

- ✚ National Conference on “Climate Change and its Impact on Natural Resources” 18th-20th October 2010 Organized by Department of Environmental Science, Bangalore University, Bangalore 560056. In Collaboration with Karnataka State Pollution Control Board Bangalore- 560001
- ✚ Workshop on Access to Information for Teaching and Research and R3 Access User Meet on 29th January 2011, Organized by University Library, held at Bangalore University Bangalore.
- ✚ National Seminar on Law on Disaster Management in India: Issues and Perspective on 11th June 2011 held at P.G. Department of Studies and Research in Law and University Law College Bangalore University Bangalore.
- ✚ Two days Workshop on B.Sc., Botany Revised Syllabus on 8th and 9th July 2011 Organized by Botanical Society Department of Botany, Bangalore University Bangalore.
- ✚ National Conference on Microbial Technology for Sustainable Development (NCMITSUD) 1st&2nd February 2013 Organized by Dept. of Biology, Gandhigram Rural Institute-Deemed University Dindigul District, Tamil Nadu, India
- ✚ Workshop on B.Sc., Botany Revised Syllabus, on 20th March 2013, Organized by SSMRV, Degree College, Jayanagar Bangalore-41
- ✚ Workshop on B.Sc., Botany revised new syllabus (5th sem) Paper V&VI, on 17th Sept. 2013 Organized by KLE, College, Rajajinagar Bangalore.
- ✚ Seven days Workshop on Environmental Activity “Joy of Knowledge” Jnanadri Trekking” to understand Nature- on 23rd-30th Nov 2013 Organized by Department of Environmental Science, Bangalore University, Bangalore 560056.
- ✚ Workshop on B.Sc., Botany revised new syllabus (6th sem) Paper VII&VIII, on 18th Jan 2014 Organized by Vijaya College R.V.Road, Bangalore-4
- ✚ Two days lecture workshop (14th& 15th Feb 2014) on “Insights from Evolutionary Biology”, Organized by Department of Life Sciences, MES Degree College, Malleshwaram, in association with Indian Academy of Sciences, Indian National Science Academy and National Academy of Sciences, India.

- ✚ One day Workshop on B.Sc., Botany Revised Syllabus Paper VII and VIII, Organized by Botanical Society Department of Botany, on 22nd Feb 2014 at MLA College Malleshwaram Bangalore University Bangalore.
- ✚ Two days BU Golden Jubilee Lecture Series “Biology in the Genomic Era” 15th -16th April 2014 Organized by Centre for Applied Genetics, Dept. of Zoology Bangalore University Bangalore.
- ✚ Two days lecture workshop on Plant Taxonomy held on 12th & 13th September 2014 at Dept. of Botany, PG and Research Centre, St. Josephs College Bangalore.
- ✚ One day Orientation Program on “Environment and Public Health” held on 29th Oct 2014 Organized by Department of Environmental Science, Bangalore University Bangalore- 560056.
- ✚ National level Two days Workshop on “Hands on Training Bioresources with FOSS GIS Software” on 19th & 20th Dec 2014 Organized by Centre for Biodiversity Informatics, Jamal Mohamed College (autonomous) Tiruchirappalli, Tamil Nadu
- ✚ One day Seminar on “Environmental Awareness” on 19th Feb 2015 Organized by AAKASH International Business Management College, Mallathahalli, Bangalore- 56
- ✚ World Environmental Day and Parisara Mela on 5th June 2015 Organized by Department of Environmental Science, Bangalore University Bangalore- 560056.
- ✚ Two days State level workshop on “Modern trends in Plant Taxonomy” held on 22th & 23th Feb 2016 at Dept. of Botany, Organized by KLE, College, Rajajinagar Bangalore,
- ✚ One day International Conference on “**Science and Technology for Management of Emerging Environmental Issues**” Organised by Dept. of Environmental Science, Bangalore University.
- ✚ One day workshop on Life and Contribution of Prof. BGL Swamy to Botany Organised by Department of Botany in Association with IQAC, Vijaya college, R.V.Road Bangalore-4

Seminars/Workshop/Conferences

Conducted/ Organized:

- ✚ National Conference on Climate Change and its Impact on Natural Resources 18th- 20th October 2010.Organized by Department of Environmental Science Bangalore University Bangalore. In Collaboration with KSPCB Bangalore.
- ✚ “WE HEAL” a 21 days Training Program for “Women Engineers” Organized by Department of Environment Science Bangalore University Bangalore. In Collaboration with Agastya International Foundation. Kuppam.
- ✚ Training Program on Municipal Solid Waste Dump: Physico- Chemical and Microbial Sampling and Analysis (TPMSW) held between 27th -31st, July 2010. Organized by Department of Environmental Science Bangalore University Bangalore. In Collaboration with CPCB, New Delhi.

Additional Responsibilities

- ✚ Have worked as Vice Principal in Al-Ameen Pre-University College Bangalore from 2005-2009.
- ✚ Board of Examiner and Paper setter in Microbiology 2000-01
- ✚ Board of Examiner and Paper setter in Industrial Microbiology 2001-02
- ✚ Board of Examiner and Paper setter in Environmental Science 2007.
- ✚ Member Board of Studies in Environmental Science 2009-10
- ✚ Board of Examiner and Paper setter in Environmental Science 2010-2011
- ✚ Board of Examiner and Paper setter in Environmental Science 20012- 13
- ✚ **Chairman** Board of Examiner in Environmental Science 20013-14
- ✚ Member Board of Examiner and Paper setter in Botany, NMKRV College For Women(Autonomous) Jayanagar B,lore-11, 20013-14
- ✚ Member Board of Studies in Environmental Science, B,lore University 2013-14
- ✚ Joint Secretary Bangalore Botanical Society from 2014 onward.
- ✚ Member Board of Studies in Environmental Science 20014-15
- ✚ Member Board of Studies in Botany, B,lore University 20014-15

- ✚ Member Board of Examiner and Paper setter in Botany, NMKRV College For Women(Autonomous) Jayanagar B,lore-11, 20015-16
- ✚ Member Board of Studies in Botany, B,lore University 20015-16
- ✚ Member Board of Studies in Botany B,lore University 20016-17
- ✚ Member Board of Examiner and Paper setter in Botany, NMKRV College For Women (Autonomous) Jayanagar B, lore-11, 20016-17.
- ✚ Member Board of Examiner and Paper setter in Botany, NMKRV College For Women (Autonomous) Jayanagar B,lore-11, 2017-18
- ✚ Member Board of Studies in Environmental Science, B,lore University 2017-18
- ✚ **Chairman** Board of Examiner in Environmental Science Bengaluru Central University 2018-19
- ✚ Member Board of Studies in Environmental Science/ Environmental Studies, and Paper setter B,lore University 2019-20
- ✚ Member Board of Examiner in Environmental Science and Paper setter Bengaluru Central University 2019-20
- ✚ Students Welfare Officer from 2017 till date
- ✚ Member IQAC 2017 till date

Community Services rendered

Sanjeevini Arogya Dhama. The Farm is located in Margondanahalli Village, Bangalore South Taluk lies in the southern part of Bangalore, and Karnataka covers an area of 6 acres and is near to Bangalore city.

- A one day Field visit was organized for mentally retarded students of Baldwin opportunity school Bangalore with their parents to check their behavior in field.
- Biodiversity of Sulikere Reserve Forest Kaggalipura Range, to highlight the Environmental benefits of the forest area and also study the soil micro flora of the forest area.
- A Conceptual Write-up on Urban Habitat – A Case Study on Bangalore South Conference – 5th October 2009. Report compiled at Department of Environmental Science Jnana Bharathi Campus Bangalore University Bangalore.

Resource person

- Training Program on Municipal Solid Waste Dump: Physico- Chemical and Microbial Sampling and Analysis (TPMSW) held between 27th-31stJuly 2010, Organized by Department of Environmental Science Bangalore University Bangalore. In Collaboration with CPCB, New Delhi.
- “**WE HEAL**” Twenty one days Training Program for “Women Engineers” Organized by Department of Environment Science Bangalore University Bangalore. In Collaboration with Agastya International Foundation. Kuppam (A.P).
- “**Joy of knowledge**” Jnanadri Trekking to understand Nature- The Mother Earth on 23rd&30th November 2013 at Jnana Bharathi Campus, Bangalore University, Bangalore.
- Seminar on “Environmental Awareness” organised by Dept of Environmental Science AAKASH INTERNATIONAL Business Management College Mallathahalli Bangalore on 19th Feb 2015.
- Regional Seminar cum workshop “HEALTHCARE AND ITS OPPORTUNITIES” organised by Dept of Plant Biology and Plant Biotechnology, The New College (Autonomous), Chennai- 600014, on 19th Feb 2016.
- “**Regional Seminar cum Workshop on Recent Trends in Plant Sciences**” (Under UGC Autonomous Grant) Organised by the Dept. of Plant Biology and Plant Biotechnology, The New College (**Autonomous**), Chennai- 600014, held on 26th & 27th February 2018

Research Guide

M.sc dissertation:

- ❖ A study on anaerobic digestion of Municipal Solid Waste for biogas production & composting. By **Shruthi Damodar**, (2010-2011).

- ❖ Antimicrobial Activity of Curcumin on Biofilm forming & Multiple Antibiotic Resistant (MAR) *Pseudomonas aeruginosa*. By **Vikaram Chandrasekaran Natarajan** (2010-2011).
- ❖ “The Performance of *Azadirachta indica* in Charakavana of Bangalore University”. By **Keerthi. C** (2011-2012)
- ❖ “Microbial Flora of Bandematta Lake (none rejuvenated) and Kommaghatta Lake (rejuvenated)”. By **Ngipwang Angely** (2011-2012).

Books Published

Books published:

- ❖ A Manual on Municipal Solid Waste Dump: Physico- Chemical and Microbial Sampling and Analysis (TPMSW).
- ❖ Text of Biology for II PUC Syllabus prescribed by Pre-University Board Bangalore.
- ❖ Practical Manual of Biology for IIPUC.

Techniques Known (Instrumentation)

- ❖ In vitro tissue culture techniques (Micro propagation, organogenesis, somatic embryogenesis).
- ❖ DNA isolation and PCR amplification techniques.
- ❖ Electrophoresis techniques (Agrose, SDS-PAGE, 2D PAGE).
- ❖ Antimicrobial activities.
- ❖ UV-Spectrophotometer.
- ❖ Gel documentation.

Co-Curricular Activities

- ❖ President School Development and Monitoring Committee (SDMC) Govt. Urdu School Dodda Mavalli LBF Road Bangalore 4.(2002-2006).
- ❖ Treasurer Al-Ameen College old Students Association (2000-2005).
- ❖ Life Member Bangalore Botanical Society.
- ❖ Secretary Al-Ameen College Science Association. (1982-1984).

Hobbies

- ❖ Reading books, learning photography, listening to music, gardening and Internet surfing.

Personal Details

Fathers Name : Abdul Khader (late)
Date of Birth : 01 June 1963,
Sex : Male
Marital Status : Married
Nationality : Indian
Religion : Islam
Category : II B

Languages Proficiency

- Read, write and speak: English, Urdu, Hindi, Kannada and Persian.

Declaration

I hereby declare that all the statements made above are true, complete and correct to the best of my knowledge and belief.

Place: Bangalore
Date:

yours faithfully

(Dr. Abdul Khayum)

Reference:

Dr. Nandini N,

Chairperson

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Dr. J.S Chandrashekar

Assistant Professor

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