

Dr. K. Mohamed Rafi
 Assistant Professor,
 PG & Research Department of Botany
 Jamal Mohamed College (Autonomous)
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Educational Qualification:

- **Ph.D: Botany** in Jamal Mohamed College, Tiruchirappalli. Title of the thesis is “Studies on genetic diversity of *Withania somnifera* (L) Dunal of Tamil Nadu”.
- **M.Sc: Botany** in Jamal Mohamed College, Tiruchirappalli. Carried out a research project and submitted a dissertation entitled “*In vitro* culture studies on *Vigna unguiculata* L.”
- **B.Sc: Botany** in Jamal Mohamed College, Tiruchirappalli.

Research Project Received:

S. No	Title of the Project	Name of the Funding Agency	Duration	Remarks
1.	Isolation and characterization of actinomycetes from soil and their antimicrobial activity against poultry pathogens.	Tamil Nadu State Council for Science and Technology, Chennai - 25	2009-10 academic year.	Completed

Professional Expreience

Duration	Designation / Responsibility	Particulars of work done
July 2009 – Till Date	Assistant Professor, PG and Research Department of Biotechnology, Jamal Mohamed College, Tiruchirappalli-20	Teaching and guiding of M.Sc., student projects
Jaunary 2003 – July 2009	Research Scholar (Full time) PG and Research Department of Botany, Jamal Mohamed College, Tiruchirappalli-20	Studies on genetic diversity of <i>Withania somnifera</i> (L) Dunal of Tamil Nadu.

Publications:

1. **Mohamed Rafi, K.**, Aslam A., Kohila S, Tanweer J., Shajahan A. (2010). Direct rhizogenesis from *in vitro* leaves of *withania somnifera* (L.) Dunal. Indian Journal of Plant Physiology, 173-176,15 : 2.
2. Aslam, A., **Mohamed Rafi, K.**, Kathiravan, K. and Shajahan, (2010). A. Class-based stratification matrix for physical leaf traits in phenetic relations of *Withania somnifera* (L.) Dunal accessions, Plant Systematics and Evolution. 288, 99-111. *(Impact factor - 1.312)*
3. Binu, V., Aslam, A., **Mohamed Rafi, K.** and Shajahan, A. (2007). *In vitro* propagation of Date palm (*Phoenix dactylifera* L.) through shoot tip culture technique. In: Proceedings of Regional Seminar on Recent Trends in Biotechnology and its Role in Utilization of Biodiversity (Eds. A. Shajahan, M.H.Muhammad Ilyas and A. Aslam). P.G and Research Dept. of Botany and University Grants Commission, New Delhi. Pp: 19-20.
4. Aslam, A., **Mohamed Rafi, K.** and Shajahan, A. (2007). Effect of terminal flowering on sweetness of leaves in *Stevia rebaudiana* Bertone. JARJ: Int. **4** (1):20-22.
5. **Mohamed Rafi, K.**, Sirajudeen, K. and Shajahan, A. (2005). Antimicrobial activity of the leaf extract of *Moringa concanensis* (Nimmo.). Advances in Plant Sciences. **18(II)**:893-894.
6. **Mohamed Rafi, K.** and Shajahan, A. (2004). Germplasm conservation of *Pavetta indica* L. An endemic and medicinally important plant by *in vitro* culture method. In. Recent Trends in Plant Biotechnology (Ed. N. Jeyabalan). Proceedings of National Seminar on Recent Trends in Plant Biotechnology, Bharathidasan University, Tiruchirappalli.
7. **Mohamed Rafi, K.** and Shajahan, A. (2004). Effect of Thidiazuron on *in vitro* propagation of an endemic and medicinally important plant, *Pavetta indica* L. JARJ: Int. Academic interdisciplinary Journal of Jamal Mohamed College, **1(2)**: 4-6.
8. Barsana Barvin, M.Kashif, K.Sree Revathy, A. Ayeshamariam , **K. Mohamed Rafi** and M. Bououdina, U. Hashim Assessment of the Physico-Chemical Properties of Water samples collected for four different samples at Ramnad and Sivagangai Districts, Tamil Nadu, In India. Journal of Harmonized Research in Applied Sciences 2(2), 2014, 111-117.

Gene Sequences deposited in the National Center for Biotechnology Information (NCBI):

1. *Enterococcus fecalis* strain JMC-UBL-02 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451428) on 19-APR-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, S. Vengadesan, T. Balaji, **K. Mohamed Rafi** and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.

2. *Bacillus firmus* strain SK20 16 S rRNA gene sequence isolated from the sludge deposited at Emperor Textiles, Tirupur, India and submitted into NCBI GenBank (Accession No. FJ974057) on 29-APR-2009, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi** and K. Selvaraj, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.
3. *Bacillus flexus* strain JMC-UBL-24 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451429) on 25-MAY-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi**, L. Shamsheerali, A. Yuvaraj and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.
4. *Acinetobacter species* strain JMC-UBL 15 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451430) on 25-MAY-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi**, L. Shamsheerali, M. MD Yasar and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.
5. *Bacillus species* strain JMC-UBL 15 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451431) on 25-MAY-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi**, L. Shamsheerali, M. MD Yasar and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.
6. *Acinetobacter species* strain JMC-UBL 17 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451432) on 25-MAY-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi**, M. MD Yasar, A. Soban Akram and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.
7. *Comamonas species* strain JMC-UBL 19 16 S rRNA gene sequence isolated from the sludge deposited at United Bleachers Limited, Mettupalayam, Tamil Nadu, India and submitted into NCBI GenBank (Accession No. HM451433) on 25-MAY-2010, S. Senthil Kumar, M.S. Mohamed Jaabir, **K. Mohamed Rafi**, A. Soban Akram, R. Vigneshwaran and R. Ravikumar, Department of Biotechnology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 620 020.

Papers presented in conferences:

1. Balaji, K., Shankar, R., Prema, N., **Mohamed Rafi, K.**, Kathiravan, K. and Shajahan, A. (2007). Molecular Characterization and antibacterial analysis for *in vitro* and *in vivo* raised *Withania somnifera* (L.) Dunal. Regional Seminar on Recent Trends in Biotechnology and its Role in Utilization of Biodiversity, PG & Research Dept of Botany, Jamal Mohamed College, Tiruchirappalli. March 2007. **Won II prize.**

2. Kokila, S., **Mohamed Rafi, K.**, Tanweer, J., Shajahan, A., Molecular characterization of peroxidase and esterase in callus culture of *Withania somnifera* (L.). Regional Seminar on Recent Trends in Biotechnology and its Role in Utilization of Biodiversity, PG & Research Dept of Botany, Jamal Mohamed College, Tiruchirappalli. March 2007.
3. Sirajudeen, K., **Mohamed Rafi, K.**, and Shajahan, A. (2005). Antimicrobial analysis of the plant extracts of *Moringa concanensis* Nimmo. Regional Seminar on Recent Trends in Biotechnology and its Role in Utilization of Biodiversity, PG & Research Dept of Botany, Jamal Mohamed College, Tiruchirappalli. March 2007.
4. Aslam, A., **Mohamed Rafi, K.**, Kathiravan, K. and Shajahan, A. (2005). Micropropagation and Ecophysiological studies on *Stevia rebaudiana* Bertone. National Symposium on Plant Biotechnology – New frontiers, Central Institute of Medicinal and Aromatic Plants, Lucknow. November 2005.
5. **Mohamed Rafi, K.**, Tanweer, J., Kathiravan, K., Shajahan, A. (2005). Separation of Withaferin-A from *in vitro* root culture of *Withania somnifera* (L.) Dunal. National Symposium on Plant Biotechnology – New frontiers, Central Institute of Medicinal and Aromatic Plants, Lucknow. November 2005.
6. **Mohamed Rafi, K.**, Janarthanan, S., Kathiravan, K. and Shajahan, A. (2005). Assessment of diversity among *Withania somnifera* (L.) Dunal accessions in Tamilnadu. National Symposium on Plant Biotechnology – New frontiers, Central Institute of Medicinal and Aromatic Plants, Lucknow. November 2005.
7. **Mohamed Rafi, K.** and Shajahan, A. (2004). Germplasm conservation of *Pavetta indica* L. An endemic and medicinally important plant by *in vitro* culture method. National Seminar on Recent Trends in Plant Biotechnology, Bharathidasan University, Tiruchirappalli. March 2004

Conferences / workshops / Trainings:

1. **National Conference on “Current Challenges in Environment”** Supported by Association of environmental analytical chemistry of India organized by PG & Research Department of Zoology, at Jamal Mohamed College, on 07-03-13 Trichy – 20.

2. **National Conference on “Recent Trends in Plant Biotechnology”**, organized by Dept. of Plant Science, Bharathidasan University, Trichy on 27-28th February, 2013.
3. **Three days “Science Academies’ lecture work shop on “Thrust Areas in Life Science”** sponsored by organized by Department of Biotechnology, Cauvery College for Woman, Tiruchirappalli – 620 018 31st January to 2nd February , 2013.
4. **One day State level seminar on “Emerging Advancements in Biosciences”** organized by Department of Microbiology and Biotechnology, Jamal Mohamed College, Trichy – 20 on 17th March, 2012.
5. **One day seminar on “Teaching learning and research in higher education – Excellence and beyond excellence”** organized by Internal Quality Assurance cell, at Jamal Mohamed College, on 07-03-12 Trichy – 20.
6. **International Workshop on “The Art of Journal and Thesis Writing”** Wajthrew-2012 organized by the Center for Research and Development and Center for Development of Teaching and Learning on 05th January at PRIST University, Thanjavur.
7. **Colloquium on “3R Concept and its practice in Academia and Research”** on 2nd October, 2011, Organized by Mahatma Gandhi – Doerenkamp Center, (MGDC) Bharathidasan University, Tiruchirappalli.
8. **Regional Seminar on Recent Trends in Biotechnology and its Role in Utilization of Biodiversity** – sponsored by UGC – from 05-03-2007 to 06-03-2007 – organized by PG and Research Dept of Botany, Jamal Mohamed College, Tiruchirappalli – 620020.
9. **National Symposium on Plant Biotechnology** – sponsored by Plant Tissue culture Association of India – from 18-11-2005 to 20-11-2005 – organized by Central Institute of Medicinal and Aromatic Plants, Lucknow.
10. **National workshop on Recent Techniques in Biotechnology** – sponsored by **DBT, CSIR, NCSTC & TNSCST** – from 23-02-2005 to 11-03-2005 – organized by Dept of Zoology and Microbiology, Thiagarajar College, Madurai – 625009.
11. **Expo and Seminar on Agrotechniques and trade promotion of herbs and Herbal products from 29th & 30th January 2005** organized by Srimad Andavan Arts and Science College, Tiruchirappalli.
12. **National Symposium on Current Scenario in Microbial Biotechnology** – sponsored by **DST & TNSCST** – from 28-09-2004 to 29-09-2004 – organized by PG & Research Dept of Botany and Microbiology, Jamal Mohamed College, Tiruchirappalli – 620020.
13. **National Seminar on cultivation of Medicinal plants and manufacture of herbal medicines** – sponsored by Ministry of Environment & forests, Govt. of India – from 19-06-2004 to 20-06-2004 – organized by Sri Sankara College of Ayurveda, Tiruchirappalli.

14. **National Seminar on Recent Trends in Plant Biotechnology** – sponsored by Dept of Plant Science, Bharathidasan University – from 22-03-2004 to 23-03-2004 – organized by Bharathidasan University, Tiruchirappalli.

15. **Communication skills workshop** – sponsored by Jamal Mohamed College – from 22-07-2003 to 08-10-2003 – organized by Guidance, Counseling and UGC coaching centre, Jamal Mohamed College, Tiruchirappalli – 620020.