

ACADEMIC PROFILE

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

College with Potential for Excellence

Accredited with 'A' Grade by NAAC-CGPA 3.6 out of 4.0

(Affiliated to Bharathidasan University)

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A. General information

- a. Name : **Dr.M.KAMARAJ**, M. Sc., M. Phil., B.Ed., PGDCA., Ph.D.
- b. Date of Birth : 25-07-1963
- c. Native Place : Chellampatty
- d. Designation : Assistant professor
- e. Date of Appointment : Management staff 25-07-1999
: Regular staff 01-08-2006
- f. Official Address : P.G.& Research Department of Botany
Jamal Mohamed College (*Autonomous*)
Tiruchirappalli- 620 020
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B. Academic Qualifications

Degree	Subject	Institution/University	Class/Rank awarded	Passing Year
UG	Botany	Periyar E.V.R. College, Bharathidasan University	Second Class	April 1989
PG	Botany	Jamal Mohamed college, Bharathidasan University	First Class	April 1991
M. Phil.	Botany	St. Joseph's College, Tiruchirappalli, Bharathidasan University.	Second Class	October 1993
B.Ed.	Botany	Annamalai University	Second Class	April 1992
PGDCA	Computer Application	Bharathidasan University	First Class	April 2004
Ph. D.	Botany	Bharathidasan University	Commended	Jan 2000

C. Teaching Experience:

(i) U.G. : 14 Years

(ii) P.G. : 14 Years

(iii) M. Phil : 10 Years

D. Research Experience: 10 Years**E. Area of Specialization: Plant Tissue Culture and Plant Biochemistry****Positions held:**

S. No	Position	Institution/ University	From	To	Period
1.	Lecturer	Jamal Mohamed College	25-07-1999		30-07-2006
2.	Assistant professor	Jamal Mohamed College	01-08-2006		Till Date

H. Number of M. Phil/Ph. D Produced

M. Phil		Ph. D.	
<u>Awarded</u>	<u>Pursuing</u>	<u>Awarded</u>	<u>Pursuing</u>
<u>48</u>	<u>02</u>	<u>06</u>	<u>07</u>

I. List of publications in International: ANNEXURE –I**Declaration**

I hereby declare that all the information given above is true and factual.

Signature

(DR.M.KAMARAJ)

List of publications in International: ANNEXURE -I

INTERNATIONAL PAPERS

Ranjitha Kumari, B.D. and **Kamaraj, M.** (1995). Effect of pesticides on pollen germination of some monocot and dicot crops. **Annali Di Botanica. Vol. I. III:** 233-238.

Senthilkumar, S. and **Kamaraj, M.** (2010). Analysis of phytochemical constituents and antimicrobial activities of *Cucumis anguria* L. Agents clinical pathogens. **American-Eurasian J. Agric. And Environ. Sci.**, 7 (2): 176-178.

Velmurugan, P., Rajan, M. and **Kamaraj, M.** (2010). Antibacterial activities of leaf and bark extracts of *Ailanthus excelsa*, **J. Trop. Med. Plants.** Vol.11 (1): 45-48.

Velmurugan, P., **Kamaraj, M.** and Prema, D. (2010). Phytochemical constituents of *Cadaba trifoliata* Roxb. Root extract. **Inter. J of Phytomedicine.** 2: 379-384.

Senthilkumar. S. and **Kamaraj, M.** (2011). Antimicrobial activity of *Cucumis anguria* L. By Agar well diffusion method. **Bot. Res. Intl.** 4 (2): 41 – 42.

Velmurugan, P., Rajan, M. and **Kamaraj, M.** (2011). Phytochemical constituents and antifungal activities of *Ailanthus excelsa*, **J. Trop. Med. Plants.** Vol.12 (1): 25-28.

Velmurugan, P. and **Kamaraj, M.** (2011). GC-MS Analysis of *Cadaba trifoliata* Roxb. Leaf extract. Traditional valuable plant. **African J. of Basic & Applied Sci.** 3 (1): 06- 08.

Velmurugan, P., Rajan, M. and **Kamaraj, M.** (2011). Phytochemical and antifungal effect of *Clerodendrum inerme* leaf extract. **J. Trop. Med. Plants.** Vol.12 (1): 21-23.

- Durairaj, P., **Kamaraj, M.** and S.Senthilkumar (2012). Ethnobotanical Survey of folk plants for the treatment of Snakebites in Tiruchirappalli District of Tamilnadu, South India. **Intl. J. Res. Pharm. Sci.** 3(1): 72-78.
- Senthil K and **Kamaraj M.**(2012). Direct shoot regeneration from inter nodal explants of *Mentha viridis* L. International Journal of Pharmaceutical Sciences and Research. 3(4): 1101-1103.
- Senthil K and **Kamaraj M.** (2012).Efficient In-Vitro regeneration from mature leaf explants of *Mentha viridis* L. Via direct organogenesis. International Journal of Scientific and Research Publications. Vol.2 (5): 2250-3153.
- Sridharavishnusithan, K. and **Kamaraj, M.** (2012).Pytochemical Analysis of leaf extracts of *Wattakaka vaubilis* Linn. (Stapp) by GC-MS method. **Int. J. of Phar. Sci. Res.** Vol.3 (6): 1867-1871.
- Thiruvengadam, M., Jerome Jeyakumar, J., **Kamaraj, M.**, Chung, I. M. (2013). Plant regeneration through somatic embryogenesis from suspension cultures of gherkin (*Cucumis anguria* L.). **Australian Journal of Crop Science**, 7 (7): 969-977.
- Jerome Jeyakumar, J., **Kamaraj, M.**, Thiruvengadam, M. (2013). Efficient plant regeneration from petiole explants of West Indian gherkin (*Cucumis anguria* L.) via indirect organogenesis. **J. Plant Biochem. Biotechnol.** DOI 10.1007/s13562-013-0215-9. (Springer)
- Jerome Jeyakumar, J., **Kamaraj, M.**, Thiruvengadam, M. (2013). Biochemical analysis of *in vitro* induced callus of (*Cucumis anguria* L.).Int. J. Pharm Bio. Sci. 4(3): (B) 484-489.
- Muthu Thiruvengadam, Jerome Jeyakumar, **Malaiyandi Kamaraj**, Ill-Min Chung (2013). Optimization of *Agrobacterium*-mediated genetic transformation in gherkin (*Cucumis anguria* L.). **Plant Omics Journal.** 6 (3):231-239.
- P. Durairaj and M. Kamaraj (2013). Ethnobotanical studies on plant resources of Trichirapalli district,Tamilnadu, India.: Int. J. of Humanities, Arts, Medicine and Sci. Vol. (1) 3: 17-30.

- P. Durairaj and M. Kamaraj (2013). Traditional medicinal plant resources of southern Pachchamalais in Trichirapalli dt Tamil nadu, India: implication of traditional Knowledge in health care system. *Int. J. of Res. In humanities, arts and literature*: vol. (1), 6: 39-46.
- P. Durairaj and M. Kamaraj (2013). Assessment and conservation strategies for *Santalum album* in Manmalai Rf of Thuraiyur Range at Tiruchirappalli District. *Int. J. of Humanities, Arts, Medicine and Sci. Vol. (1)*: 1-12.
- Jerome Jeyakumar, J., **Kamaraj, M.**, Nandagopalan, V., Anburaja, V and Thiruvengadam, M. (2013). A study of phytochemical constituents in *Caralluma umbellate* by GC-MS analysis. *Int. J. Pharm. Sci. Inven. 2(4)*: 37-41.
- Subramani, V., **Kamaraj, M.**, Jerome Jeyakumar, J. and Prema, D. (2013). Phytochemical properties and antimicrobial activities of *Tinospora cordifolia* (Menispermaceae). *J. of Anti. Photon 128*: 226-230.
- J. Jerome Jeyakumar and **M. Kamaraj**. (2014). Standardization of culture conditions for efficient *in vitro* flowering and regeneration of *Cucumis anguria* L. *Int. J. Pharma Sci. Res. 2 (8)*: 1741-1751.
- Jerome Jeyakumar, J., **Kamaraj, M.** Srinivasan, S. and Thiruvengadam, M. (2014). *In vitro* propagation of *Metha arvensis* L. And the studies of their antibacterial activities. *J. of Anti. Photon 129*: 333-337.
- Ho-Jong Ju, Jerome Jeyakumar, **Malaiyandi Kamaraj**, Nagella Praveen, Ill-Min Chung, Seung-Hyun Kim. and Muthu Thiruvengadam, (2014). High frequency somatic embryogenesis and plant regeneration from hypocotyls and leaf explants of gherkin (*Cucumis anguria* L.). **Scientia Horticultrae**. 169:162-268.(Elsevier).
- J. Jerome Jeyakumar and M. Kamaraj. (2014). *In vitro* propagation of *Mentha arvensis* L. and the studies of their antibacterial activities. *Phot. J. anti. 333-337*.
- J. Jerome Jeyakumar and M. Kamaraj. (2014). *In vitro* Callus Regeneration and Biochemical Analysis in the Medicinal Plant *Phyllanthus niruri* L. *Brit. Bio. Bulle. 2 (2)*: 437-446.

Jerome Jeyakumar J, Senthil K, **Kamaraj M**, Subramani V and Prema D. Studies on the phytochemical properties and antimicrobial activities of a medicinal plant *Vernonia cinerea* (L.) LESS (Asteraceae). *Journal of Research in Plant Sciences*. (2014)3(1):255-259.

J. Jerome Jeyakumar and **M.Kamaraj**.(2014).Ethnobotanical studies on kallanai Thanjavur district. *Asian. J. Plant Sci. Res*.4 (3):5-8.

Subramani V, **Kamaraj M**, Senthil K, Ramachandran B, Jerome Jeyakumar J and Prema D. (2014). Studies on Phytochemical Properties and Antimicrobial Activities of *Passiflora foetida* L.and *Ficus retusa* L. *Journal of Research in Plant Sciences*. 3(1): 249-254.

J. Jerome Jeyakumar and M.Kamaraj.(2014).Effect of Different Growth Regulators on *In-vitro* Regeneration of Rhizome and Leaf Explants of *Acorus calamus* L., *Int. J. Pharma Res. Rev*.3 (3) :1-6.

J. Jerome Jeyakumar and M.Kamaraj.(2013).Phytochemical Properties and Antimicrobial Activities of *Tinospora Cordifolia* (Menispermaceae). *Phot. J. anti*. 226-230.

J. Jerome Jeyakumar and M. Kamaraj. (2014). Antidiabetic and Antioxidant Property of *Wattakaka volubilis*. *Int. J. Pharma Res. Rev*. 3 (3) :12-15 .

Jerome Jeyakumar and M. Kamaraj. (2014). Study of trace metals concentration and antimicrobial properties of tropical *Aloe vera* plant from southern India. *Int. J. Phyto*. 4 (3):89-91.

J. Jerome Jeyakumar and M.Kamaraj.(2014). Phytochemical investigation and antimicrobial activity of *Caesalpinia bonduc* (linn) Roxb seed. *Int. J. Phyto*.4 (3):92-95.

J. Jerome Jeyakumar and M.Kamaraj.(2014).Screening of phytochemical constituents, trace metals and antimicrobial efficiency of *Cissus vitiginea*. *Int. J. Phyto*.4 (3):96-98.

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- J. Jerome Jeyakumar and M.Kamaraj.(2014). Plant Extracts Derived Silver Nanoparticles. *Int. J. Pharma Res. Rev.* 3(3):16-19.

NATIONAL PAPERS:

- Kamaraj, M.** and Ranjitha Kumari, B.D.(1997). Genotypic differences in Betel vine (*Piper betle L.*) to moisture stress. **Physiol. Mol. Biol. Plants.** : 85 - 86.
- Kamaraj, M.** and Ranjitha Kumari, B.D. (1997a). Change in stomatal characters in Betel vine (*Piper betle L.*) under moisture stress. **Geobios.** **16: 54-56.**
- Kamaraj, M.** and Ranjitha Kumari, B.D. (1999). Physiological response of Betel vine (*Piper betle L.*) to water stress. *Geobios.* Vol. 26(2-3): 119-122.
- Kamaraj, M.,** George, V.K. and Ranjitha Kumari, B.D. (1999). Effect of plant growth hormones on growth and yield of sunflower. **Indian Journal of Plant Physiol.** vol. **4, No.2** (N.S):141-143.
- Ravi Kumar, R., **Kamaraj, M.,** and Sathiskumar, V. (2007). Effect of vermicompost on *In Vivo* raised seedlings on paddy. **JARJ.** Vol. 4. No.1: 17-19.
- Senthilkumar, S., Sathish, S.S. and **Kamaraj, M.** (2009). Investigation on Antibacterial potential of a medicinal plant *Rauwolfia serpentina L.* **J. Microb. World.** 11(2): 244-247.
- Senthilkumar, S., Sahaya Sathish, S. John, J. and **Kamaraj, M.** (2009). Efficiency of Oyster mushrooms (*Pleurtus sajorcaju*) on degradation of different agro wastes. **J. Ecobiol.** 25 (4): 337-341.

- Sridharavishnusithan, K. and **Kamaraj, M.** (2010).Antibacterial activity of strychnos *Nuavomica* leaf extracts. **J.of Ecobiol.** Vol. 27(1): 39-42.
- Velmurugan, P., Rajan, M. and **Kamaraj, M.** (2010).Antibacterial activities of leaf and bark extracts of *Clerodendrum inerme*. **J.of Ecobiol.** 26(4): 391-394.
- Prema, D. and **Kamaraj, M.** (2010). Effect of growth hormones on in vivo raised seedling of sunflower (*Helianthus annuus* L.). **J. Ecotoxicol. Environ. Monit.** 20 (6): 437-441.
- Prema, D. and **Kamaraj, M.** (2010). Effect of water stress on Nitrate and Nitrite reductase activities in Betel vine (*Piper betle* L.). **J. Ecotoxicol. Environ. Monit.** 20 (6): 523-526.
- Sridharavishnusithan, K and **Kamaraj, M.** (2010). Effect of *Piper betle* (Betel vine) Extract selected pathogenic bacteria. **J. Ecotoxicol. Environ. Monit.** 20 (5): 487-490.
- Senthilkumar, S., Prema, D., Durairaj, P. and **Kamaraj, M.** (2011). *In Vitro* multiple shoot regeneration from nodal explants of *Cucumis anguria*. **J. Ecotoxicol. Environ. Monit.** 21 (1): 59 – 62.
- Antony Sahayaraj, A., Assisa Priceline, R. and **Kamaraj, M.** (2012). Effect of sodium chloride stress on protein metabolism of green gram (*Vigna radiata*).**J. of Ecobiol.** 30(2): 97-104.
- Assisa Priceline, R., Antony Sahayaraj, A. and **Kamaraj, M.** (2012). Effect of KCL salinity on protein metabolism of black gram (*Vigna mungo*). **J. of Ecobiol.** 30(2): 27-134.