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## **M. Kumar, Ph.D**

Assistant Professor, Department of Botany  
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### **EDUCATIONAL QUALIFICATION**

<b>Ph.D.</b> Botany	Centre for Advanced Studies in Botany, University of Madras, Chennai, India	(2005–2010)
<b>M.Sc.</b> Botany	Madras Christian College, Tambaram, Chennai, India	(2002–2004)
<b>B.Sc.</b> Botany	Loyola College, Chennai, India	(1999–2002)

### **COURSE TAUGHT**

**Under Graduate** : Mycology, Personality Development, Value Education- Christian Studies.

**Post Graduate** : Mycology, Plant Pathology, Microbial Technology, Research Methodology, Instrumentation, Biostatistics, Use of Computers.

### **EXPERIENCE**

#### **Teaching Experience**

**Assistant Professor** (Feb 2012-Till date), Department of Botany, Madras Christian College, Chennai, Tamil Nadu, India.

**Assistant Professor** (August 2011-January 2012), Department of Biotechnology, MGR College, Hosur, Tamil Nadu, India.

**Visiting Faculty** (Dec 2010-May 2011), Department of Biotechnology, AMET University, Kanathur, Chennai, India.

#### **Research Experience**

**Senior Research Fellow** (2009-2011), CAS in Botany, University of Madras, Chennai, India. Under All India coordinated Project on Taxonomy (AICOPTAX) – Fungi (Basidiomycetes), funded by **Ministry of Environment and Forests**.

**Junior Research Fellow** (2007-2009), CAS in Botany, University of Madras, Chennai, India. Under All India coordinated Project on Taxonomy (AICOPTAX) – Fungi (Basidiomycetes), funded by **Ministry of Environment and Forests**.

**Project Fellow** (2005-2007), CAS in Botany, University of Madras, Chennai, India. Under

UGC-Major Research Project entitled “Biodiversity of white rot and litter decomposing basidiomycetes and their application in degradation of xenobiotics”.

## **EXPERTISE AREA & RESEARCH INTERESTS**

### **Expertise Area**

Macro fungi (basidiomycete) identification

Fungal molecular taxonomy

Cultivation of different species of mushrooms

Handling fungal cultures includes isolation, purification and maintenance

### **Research Interests**

Mushroom diversity, Molecular systematics, Mushroom metabolites, Mycoprospecting, Ethnomycology, Mushroom food and nutrition, Mycotechnology

## **PUBLICATIONS**

1. Ramanaiah Illuri, **M. Kumar**, M. Eyini, V. Veeramanikandan, Khalid S Almaary, Yahya B. Elbadawi, M.A. Biraqdar, P. Balaj. 2021. Production, partial purification and characterization of ligninolytic enzymes from selected basidiomycetes mushroom fungi. Saudi Journal of Biological Sciences xxx (xxxx) xxx. (**Available online-In press**)
2. David Samuvel Michael, M. Krishna Priya, J. Sidharthan, **M. Kumar**, Rajadurai Vijay Solomon, D. Reuben Jonathan. 2021. Synthesis, crystallography, DFT, MTT assay, and molecular docking studies of an exocyclic double-bonded crystalline chalcone. Chemical Data Collections 36 (2021) 100773: 1-14
3. **Kumar M**, Nithya S and Agnes Kayalvizhi A. 2021. First report of *Trichaleurina javanica* (Rhem) M. Carbone, Agnello & P. Alvarado (Ascomycota: Pezizales: Chorioactidaceae) from South India. Journal of Threatened Taxa 13(5): 18398–18402.
4. Mirfath Jahan, Jeya Rathi J, **Kumar M** and Santhosh S. 2020. Preliminary analysis of fungal macroflora in Madras Christian college vegetation and ecological aspect. Ecology, Environment & Conservation. 26: S263-S267.
5. **Kumar M**, Ramya V and Nithya S. 2017. Isolation, Growth and Culture Morphology of *Polyporus grammocephalus*. Journal of Academia and Industrial Research 6(4): 69-71.
6. **Kumar M** and Sathish Kumar S. 2017. Standardization of Substrate for Spawn Production of Wild Edible Mushroom *Polyporus grammocephalus*. Journal of Academia and Industrial Research 6(1): 13 - 16.
7. **Kumar M** and V. Kaviyaran. 2012. Distribution of *Lentinus tuberregium* in South India. J. Acad. Indus. Res. Vol. 1(6): 296 - 300.

8. Nomila Merlin J, Nimal Christudas I.V.S, Praveen Kumar P, **Kumar M** and Agastian P. 2012. Taxol-Producing endophytic fungi isolated from *Tylophora indica*. J. Acad. Indus. Res. Vol. 1(4): 137- 139.
9. **Kumar M** and V. Kaviyarasan. 2012. Carnivorous Mushroom from Eastern Ghats. J. Acad. Indus. Res. Vol. 1(3): 137- 139.
10. Vanitha C, Manjunathan J, Aravind R., **Kumar M** and V. Kaviyarasan. 2012. Antimicrobial Activity of *Omphalotus olivascens*. Am. J. Pharm. Tech. Res. 2(3): 578-584.
11. **Kumar M**, and Kaviyarasan V. 2012. Few common poisonous mushrooms from Kolli Hills, India. J Acad. Indus. Res. Vol. 1(1): 26-30.
12. **Kumar M** and Kaviyarasan V. 2011. A rare agaric from a sacred grove of Eastern Ghats, India. Journal of Threatened Taxa 3(5): 1778–1781.
13. Manjunath J, **Kumar M** and Kaviyarasan V. 2011. Taxonomic studies, rapid and efficient protocol for DNA extraction, molecular characteristics of the basidiomycete *Lentinus tuberregium* (fr.) GQ292711. Asian J. Pharm. Clin. Res. 4(2): 54-58.
14. Manjunath J, **Kumar M** and Kaviyarasan V. 2011. Taxonomic studies on *Lentinus tuberregium* (GQ 292711) Tamil Nadu, India. Research J. Pharm. and Tech 4(2): 484-489.
15. **Kumar M**, and Kaviyarasan V. 2010. New species of *Volvariella* from Tamil Nadu, India. Kavaka 37: 64-67.
16. Manjunath J, **Kumar M**, and Kaviyarasan V. 2010. Screening of inducers for laccase production by *Lentinus tuberregium* (fr.) in liquid medium. Journal of Biosciences Research 1(2): 88-93.
17. Kaviyarasan V, Siva R, **Kumar M** and Natarajan K. 2008. Two new species of *Marasmius* from Tirumala Hills, Eastern Ghats. Kavaka 36: 63-66.
18. Kaviyarasan V, **Kumar M**, Siva R and Natarajan K. 2006. *Morchella esculenta* – A new record from South India. Mushroom Research 15(1): 87-88.
19. Kaviyarasan V, Siva R and **Kumar M**. 2006. Biodiversity of Basidiomycetes and their role in Sustainable environment management. ENVIS Newsletter. Vol.1: 2-7.

## BOOK/ MANUALS

1. **M. Kumar**. 2020. A field guide to Mushrooms and other fungi of Tropical Dry Evergreen Forest of Peninsular India. Digital Age Publishers, Chennai. ISBN 978-93-84692-09-4.
2. **Domain Expert** and **Author** 2018. Tamil Nadu Government *Higher Secondary first year - Bio-Botany*. Tamil Nadu State Council for Educational Research and Training Publication.

3. **Domain Expert and Author** 2018. Tamil Nadu Government *Higher Secondary first year - Botany*. Tamil Nadu State Council for Educational Research and Training Publication.
4. **M. Kumar**. 2013. A laboratory manual on mushroom Cultivation. Edited by MCC Botany Department.
5. Kaviyarasan V and **Kumar M**. 2009. A field guide to South Indian Agaricales. Indian Society of Science and Technology (ISST) publication.

**NUCLEOTIDE SEQUENCES DEPOSITED IN GENBANK, BETHESDA, MARYLAND, USA  
Accession number and Strain**

- |                                   |   |
|-----------------------------------|---|
| 1. Bankit gi183178882 (EU591956)  | - <i>Coprinus macrocephala</i> VKT01          |
| 2. Bankit gi257786511 (GQ292711)  | - <i>Lentinus tuberregium</i> VKMK01          |
| 3. Bankit gi257786558 (GQ849478)  | - <i>Lentinus pseudotenebrosus</i> VKMK02     |
| 4. Bankit gi257786555 (GQ849475)  | - <i>Lentinus squarrosulus</i> VKMK03         |
| 5. Bankit gi257786556 (GQ849476)  | - <i>Lentinus tigrinus</i> VKMK04             |
| 6. Bankit gi257786557 (GQ849477)  | - <i>Lentinus cladopus</i> VKMK05             |
| 7. Bankit gi323482829 (HQ267232)  | - <i>Ganoderma weberianum</i>                 |
| 8. Bankit gi323522325 (HQ849552)  | - <i>Trametes hirsuta</i> VKESR               |
| 9. Bankit gi353258985 (JN638435)  | - <i>Diaporthe longicolla</i> strain GJJM07   |
| 10. Bankit gi353258986 (JN638436) | - <i>Phomopsis liquidambari</i> strain GJJM13 |
| 11. Bankit gi353258987 (JN638437) | - <i>Phomopsis averrhoae</i> strain GJJM06    |
| 12. Bankit gi353258988 (JN638438) | - <i>Phomopsis theae</i> strain GJJM16        |
| 13. Bankit 2011781(KY985462)      | - <i>Polyporus grammacephalus</i> FBFBL01     |
| 14. SUB3881420 (MH188447)         | - <i>Phellinus rimosus</i> FBFBL1701          |
| 15. SUB6627279 (MN749607)         | - <i>Calocybe indica</i> FBFBL1902            |
| 16. SUB6627211 (MN749609)         | - <i>Macrocybe gigantea</i> FBFBL1904         |
| 17. SUB6627279 (MN753977)         | - <i>Amylosporus campbellii</i> FBFBL1901     |

**SEMINAR/CONFERENCE/WORKSHOP/EXHIBITION ORGANISED:**

**Organizer** of 'MAGIS MYCENAE'- An Exhibition on Mushroom Diversity – **First Time in India**. 5<sup>th</sup> & 6<sup>th</sup> March 2020, conducted by Department of Botany, Madras Christian College, Chennai.

**Organising Treasurer** of DBT & NBA sponsored National Conference on Vistas in Biodiversity, Biology, Biotechnology and Nanotechnology of Algae (VBBBNA2018). 20 – 22 September, 2018, conducted by Department of Botany, Madras Christian College, Chennai

**Organising committee member** of CSIR & TNSCST sponsored National Symposium on “Current Trends in Plant Sciences (NSCTPS18)” between 22<sup>nd</sup> and 23<sup>rd</sup> February,

2018, conducted by Department of Botany, Madras Christian College, Chennai.

**Coordinator** of a 6 day **Workshop on “Mushroom Cultivation”** between 9<sup>th</sup> and 14<sup>th</sup> February 2015 supported by Star College scheme of DBT at the Department of Botany, Madras Christian College.

**Coordinator** of a 6 day **Workshop on “Mushroom Cultivation”** between 2<sup>nd</sup> and 7<sup>th</sup> September 2013 supported by Star College scheme of DBT at the Department of Botany, Madras Christian College.

#### **MASTER OF PHILOSOPHY RESEARCH PROJECTS GUIDED:**

Mycosynthesis of nano particle synthesis using *Macrolepiota rhacodes* and its anti-oxidant and anti-cancer potential – Santhosh S (September 2019)

A preliminary inventory of Ascomycetous fungi from MCC campus emphasizing on the Antimicrobial and Antioxidant activity of *Galiella rufa* – Agnes Kayalvizhi A (September 2019)

#### **POST GRADUATE RESEARCH PROJECTS GUIDED:**

Taxonomy, Phylogeny, Culture and Antibacterial activity of few selected Hymenochaetaceae members - Jenipher C (April 2021)

Taxonomy of Myxomycetous, Hysteriaceous and Xylariaceous fungi with special emphasis on the Phylogeny of *Psilogonium ephedrae*” - Nivetha M (April 2021)

A pilot study on Mapping of mushrooms in MCC campus and phylogentic study of *Marasmius* sp. - Sam Abishek T (April 2021)

Preparation of a novel culture medium extracted from *Auricularia polytricha* (Mont.) Sacc. and screening of its nutritional properties - Agnes Rathna V (June 2020)

Resolving the taxonomic ambiguity among the genus *Macrocybe*, *Calocybe* and *Tricholoma* (Tricholomataceae) using molecular tool - Kousalya J (June 2020)

Optimization of cultivation condition for wild edible mushroom *Macrocybe gigantea* (Masse) Pegler & Lodge - Ebenezer G (June 2020)

Isolation and molecular cloning of small subunit of mitochondrial and nuclear rDNA from the lichen forming mycobionts and photobiont - P.K. Disura (April 2019)

Crystallisation and characterization of bioactive compound Drosophillin A - Methyl Ether from *Phellinus sublinteus*, its anticancer activity using hepg2 liver cancer cells and molecular docking - Vaishnavi P (April 2019)

Diversity of wild edible mushrooms from MCC campus and screening two species for nutritional and phytochemical properties - V. Vinitha (April 2019)

Mushrooms Diversity of Madras Christian College Campus - S. Santhosh (April 2018)

Isolation & characterisation of rutin from *Phellinus* species - Honey Dominic (April 2018)

Collection, identification and screening for nutraceutical properties of *Polyporus grammacephalus* Berk. - S. Nithya and V. Ramya (April 2017)

Status of the arbuscular mycorrhizal (AM) fungal association in selected vegetation of Chennai, Tamil Nadu - B. Britta Gnana Selvi (April 2017)

Nutritional and molecular studies on the wild edible Mushroom *Laetiporus sulphureus* (Bull.:Fr.) - Lalita Shanglai and Neha Elisha (April 2016)

The common wood rot fungi of MCC campus - Ancy Alexander and Maxlein Royee (April 2015)

Taxonomy, Distribution and Antioxidant potential of *Phellinus* species, a common wood rot fungus of MCC campus - Amthul Fathima and Tabitha (April 2013)

Studies on wild edible mushroom *Polyporus grammacephalus* Berk. - Jenifer Priya and Sathish Kumar (April 2013)

Isolation of lipase producing fungi from oil seeds and its preliminary screening for lipase production - Raja Priya G & Udhaya K (April 2013)

#### **MEMBERSHIP IN PROFESSIONAL SOCIETIES:**

- Editorial Board Member – Journal of Industrial and Academic Research
- Mycological Society of India – Life Member
- Editorial Board Member – Innovations in Agriculture

#### **PAPER PRESENTED IN CONFERENCE/SEMINAR/SYMPOSIUM**

1. **Kumar M.** 2019. Mushroom diversity in tropical dry evergreen forest with reference to Madras Christian College campus. National Conference on “Recent Advances in Biodiversity, Biology and Biotechnology of Fungi and 46<sup>th</sup> MSI meet, between 7<sup>th</sup> and 9<sup>th</sup> November, organised by Department of Biotechnology, Pondicherry University, Pondicherry, India.
2. Vaishnavi P, Kousalya J, Reuben Jonathan D, Revathi Krishnan, Vijay Solomon R and **Kumar M.** 2019. Crystallisation and characterization of Drosophillin A Methyl Ether from *Phellinus sublinteus*. National Conference on “Recent Advances in Biodiversity, Biology and Biotechnology of Fungi and 46<sup>th</sup> MSI meet between 7<sup>th</sup> and 9<sup>th</sup> November, organised by Department of Biotechnology, Pondicherry University, Pondicherry, India.
3. Vinitha V, Agnes Rathna, Ebenezer G and **Kumar M.** 2019. Diversity of wild edible

mushrooms from Madras Christian College campus and screening two species for nutritional and phytochemical properties. National Conference on “Recent Advances in Biodiversity, Biology and Biotechnology of Fungi and 46<sup>th</sup> MSI meet, between 7<sup>th</sup> and 9<sup>th</sup> November, organised by Department of Biotechnology, Pondicherry University, Pondicherry, India.

4. Agnes Kayalvizhi A and **Kumar M.** 2019. A preliminary inventory of ascomycetous fungi from MCC campus emphasizing on the antimicrobial and antioxidant activity of *Galiella rufa*. National Conference on “Recent Advances in Biodiversity, Biology and Biotechnology of Fungi and 46<sup>th</sup> MSI meet, between 7<sup>th</sup> and 9<sup>th</sup> November, organised by Department of Biotechnology, Pondicherry University, Pondicherry, India.
5. **Kumar M,** Honey Dominic, Maxlein Royee and Ancy Alexander. 2018. Taxonomy, pathology and extraction of bioactive compounds from phellinus species in MCC campus. **International symposium** on fungal biology: Advances, applications and conservation and MSI meet, between 19<sup>th</sup> and 21<sup>st</sup> November, organised by NFCC, MACS' Agharkar Research Institute, GG Agarkar Road, Pune, India.
6. **Kumar M,** Santhosh Kumar and Kumaran S. 2018. Diversity & mapping of mushrooms in Madras Christian College campus. **International symposium** on fungal biology: Advances, applications and conservation and MSI meet, between 19<sup>th</sup> and 21<sup>st</sup> November, organised by NFCC, MACS' Agharkar Research Institute, GG Agarkar Road, Pune, India.
7. Santhosh S and **Kumar M.** 2018. Optimization of cultivation condition for wild edible mushroom *Lentinus squarrosulus* in the Tamil Nadu State Council for Science and Technology Seminar cum Exhibition, between 20<sup>th</sup> and 22<sup>nd</sup> July, held at National College, Trichy.
8. Giridhar Babu A, **M. Kumar** and Dong-pyo Kim. 2018. Phytohormone addition coupled with nitrogen limitation boosted biomass and lipid accumulation in *Chlorella vulgaris*. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Department of Plant Biology and Plant Biotechnology, Madras Christian College.
9. Honey Dominic and **M. Kumar.** 2018. Extraction and evaluation of bioactive compound from sporocarp of *Phellinus* spp. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Department of Plant Biology and Plant Biotechnology, Madras Christian College.
10. Santhosh S and **Kumar M.** 2018. Diversity of agaricales in Madras Christian College campus. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Department of Plant Biology and Plant

Biotechnology, Madras Christian College.

11. Britta Gnana Selvi B and **Kumar M.** 2018. Status of the arbuscular mycorrhizal (AM) fungal association in selected vegetation of Chennai, Tamil Nadu. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Department of Plant Biology and Plant Biotechnology, Madras Christian College.
12. Nithya S and **Kumar M.** 2018. Natural pigments from selected macrofungi. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Dept. of Plant Biology & Plant Biotechnology, Madras Christian College.
13. Ramya V, Nithya S and **Kumar M.** 2018. Identification and screening for nutraceutical properties of wild edible mushroom *Polyporus grammacephalus* berk. **National symposium** on current trends in plant sciences (NSCTPS18), between 22<sup>nd</sup> and 23<sup>rd</sup> February, at Department of Plant Biology and Plant Biotechnology, Madras Christian College.
14. **M. Kumar.** 2017. Establishment of nutritional profile of selected indigenous edible mushrooms from Eastern Ghats, South India. **National conference** on “Fungal Biology: Recent trends and future prospects” and 44<sup>th</sup> Annual meeting of the Mycological Society of India. 16<sup>th</sup> - 18<sup>th</sup> November at Department of Botany, Jammu University, Jammu. India.
15. **M. Kumar** and Kaviyarasan V. 2017. Mushroom diversity of Eastern Ghats, South India. **Asian Mycological Congress.** 10<sup>th</sup>-13<sup>th</sup> October, organized by Hochiminh Mycological Society, at Hochiminh City, Vietnam.
16. Nithya S and **Kumar M.** 2017. Isolation and extraction of natural pigments from edible macro-fungi in the Tamil Nadu State Council for Science and Technology Seminar cum Exhibition on 22<sup>nd</sup> August, held at Tamil Nadu Agriculture University, Coimbatore.
17. **M. Kumar.** 2017. Indigenous mushrooms and their antioxidant potential. **National conference** on “Emerging Trends and New Challenges in Biotechnology – Advances in Free Radicals and Antioxidants” on 2<sup>nd</sup> and 3<sup>rd</sup> February at PG and Research Departments in Biotechnology, MGR College, Hosur. India.
18. **M. Kumar.** 2015. Studies on *Phellinus* (A medicinal mushroom) species of Madras Christian College campus. **International conference** on “Medicinal Plants and Herbal Drugs for Human Welfare (ICMP-2015)”. at Le Royal Meridien, Chennai, between 28-30<sup>th</sup> January, jointly organised by CAS in Botany, University of Madras, Society for conservation and Resource Development of Medicinal Plants and International Council for Medicinal and Aromatic Plants.
19. **M. Kumar.** 2013. Ethno mycological studies on mushrooms of Tamil Nadu, South India. **National seminar** on current perspectives of fungi in health care and environment. 13<sup>th</sup> & 14<sup>th</sup> March at Bangalore University, Bangalore, India.

20. Jenifer Priya and **M. Kumar**. 2013. Antioxidant and Antimicrobial properties of *Polyporus grammacephalus*. CSIR sponsored **National conference** on emerging trends and new challenges in biotechnology. 24<sup>th</sup> & 25<sup>th</sup> January at MGR College, Hosur, India.
21. **M. Kumar** and V. Kaviyarasan. 2012. The genus *Lentinus* from Tamil Nadu, India. **International conference** on Biodiversity and sustainable energy development on 14<sup>th</sup> & 15<sup>th</sup> September at Hyderabad, AP, India.
22. **M. Kumar**, Balaji P, Neethirajan G and V. Kaviyarasan. 2012. Studies on the *Lentinus* species of Tamil Nadu, South India. **National Conference** on Mycodiversity with its Sustainable Exploration and Biotechnological Applications and 38<sup>th</sup> Annual Meeting of Mycological Society of India. 6<sup>th</sup> and 7<sup>th</sup> February at Shri Shivaji Science College, Amaravati, India.
23. Saravanan T, Rajesh K, **Kumar M**, Murugan J.M, Chinnadurai K and Balaji P. 2012. Optimization of  $\beta$ -Glucan production from *Aspergillus* sp. central composite design and their biological evaluation. **National Conference** on Mycodiversity with its Sustainable Exploration and Biotechnological Applications and 38<sup>th</sup> Annual Meeting of Mycological Society of India. 6<sup>th</sup> and 7<sup>th</sup> February at Shri Shivaji Science College, Amaravati, India
24. Aravind R, Manjunath J, **M. Kumar** and V. Kaviyarasan. 2012. Evaluation of antioxidant activity of wild mushroom *Macrolepiota rhacodes* collected from Chennai, Tamil Nadu. **National Conference** on Mycodiversity with its Sustainable Exploration and Biotechnological Applications and 38<sup>th</sup> Annual Meeting of Mycological Society of India. 6<sup>th</sup> and 7<sup>th</sup> February at Shri Shivaji Science College, Amaravati, India.
25. Vanitha C, Sneha K, Sandiya K, and **M. Kumar**. 2011. A comparative phylogenetic study on the genus *Clarkeinda*, *Chlorophyllum* and *Macrolepiota*. A two day **National Seminar** on “New Frontiers in Biotechnology” 24<sup>th</sup> & 25<sup>th</sup> August at Adhiyamaan College of Engineering, Hosur, Tamil Nadu, India.
26. **M. Kumar** and V. Kaviyarasan. 2011. Studies on Agarics of Eastern Ghats. **National conference** on “Recent Advances in Mycological Research” 8 & 9<sup>th</sup> February at University of Madras, Chennai, India.
27. **M. Kumar** and V. Kaviyarasan. 2011. Mushrooms of Western Ghats, Kanyakumari Districts. **National conference** on “Recent Advances in Mycological Research” 8<sup>th</sup> & 9<sup>th</sup> February, at Centre for Advanced Studies in Botany, University of Madras, Chennai, India.
28. Manjunath, J., **Kumar, M.** and Kaviyarasan, V. 2009. Studies on the vegetative growth requirements and antimicrobial activity of *Lentinus tuberregium* (Fr.) an edible mushroom of Tamil Nadu, India. **National conference** of Indian association of applied microbiology, Bioeclectics '09. 11-12<sup>th</sup> December at SRM Arts and science college, Kattankulathur. India.

29. **M. Kumar**, D. Sundaralingam and V. Kaviyarasan. 2009. Studies on the indigenous *Lentinus* spp. isolated from Eastern Ghats, India. Presented in **National seminar** on “Fungal biodiversity and Bioprospecting in the age of global warming” and 36th Annual meeting of the Mycological Society of India (MSI), 29-30 October, held at Dept. of Botany, Goa University, Goa, India.
30. **M. Kumar** and V. Kaviyarasan. 2009. *Pleuroflammula natarajiana* sp. nov. – from India. Presented in **National conference** on “New vistas for mycology in meeting global challenges” and 35<sup>th</sup> Annual meeting of the Mycological Society of India (MSI), 29<sup>th</sup> & 30<sup>th</sup> January held at CAS in Botany, University of Madras, Chennai, India.
31. **M. Kumar** and V. Kaviyarasan. 2008. Pathogenic basidiomycete from banana plantations of Tamil Nadu. **Annual conference and symposium** on “Advances in biotechnology for plant protection”, 17-19<sup>th</sup> November, held at University of Mysore, Mysore, India.
32. **M. Kumar** and V. Kaviyarasan. 2007. Pink spored agarics of Tamil nadu, South India. Presented in “**National conference** on fungal diversity: Impact & Exploitation” and 34th Annual meeting of the Mycological Society of India (MSI), 5-6 October, held at the Thapar University, Patiala, Punjab, India.
33. **M. Kumar**, V. Kaviyarasan and K. Natarajan. 2007. Agaric diversity of Javadi Hills – Eastern Ghats. Presented in **International conference** on “Mushroom biology and biotechnology”, held on 10-11 February, at National Research Centre for Mushroom, Chambaghat, Solan, HP, India.
34. **M. Kumar**, G.A.I. Ebenezer and V. Kaviyarasan 2007. Micropropagation of Medicinally important plant – *Plantago amplexicaulis* Cav. at **National conference** on “Recent Trends on Medicinal Plants Research”. 24-25 January, held at CAS in Botany, University of Madras, Chennai, India.
35. **M. Kumar**, V. Kaviyarasan and K. Natarajan. 2006. Agaric diversity of Eastern Ghats – Javadi hills of Tamil Nadu. Presented in **National conference** on “Recent trends in Mycological Research” and 33<sup>rd</sup> Annual meeting of the Mycological Society of India (MSI). 28-29 December at JJ College, Pudukottai, TN. India.
36. V. Kaviyarasan and **M. Kumar**. 2005. Mushroom Biodiversity of Keeriparai rubber plantations. Presented in **National seminar** on fungal Biodiversity and Bioinformatics (NSFBBB) and 32<sup>nd</sup> Annual meeting of the Mycological Society of India (MSI), held on 2–3 February at Sri Bhavan Mahaveer Jain College, Bangalore, Karnataka, India.

#### **RESOURCE/CHAIR PERSON**

Invited as **Chief Guest** and **delivered Prof. C. R. Babujee Endowment Lecture** on ‘Mushroom Biodiversity of South India and its bio-prospecting’, in the Endowment Lecture Series organized by Department of Plant Biology and Biotechnology, Loyola

College, on 12<sup>th</sup> March, 2020.

Invited as **Chief Guest** and **delivered inaugural address** in the National Symposium on ‘Contemporary issues in Biotechnology’, organized by Department of Biotechnology, St. Joseph’s College, Hosur on 19<sup>th</sup> February, 2020.

Served as **Co-Chair** in the National Conference on “Recent Advances in Biodiversity, Biology and Biotechnology of Fungi and 46<sup>th</sup> MSI meet, organised by Department of Biotechnology, Pondicherry University, Pondicherry, India, on 7<sup>th</sup> and 9<sup>th</sup> November 2019.

Served as a **resource person, Delivered an invited lecture and provided Hands on Training** in the DBT Star College sponsored Training programme on “*Mushroom Cultivation*”, at Justice Basheer Ahmed College for women (JBAS), Chennai on 30<sup>th</sup> September 2019.

Served as a **Judge** for Jawarlal Nehru National Science, Maths & Environmental Exhibition held at Kendriya Vidyalaya, AFS Tambaram on 16<sup>th</sup> September 2019.

Served as a **resource person, delivered lecture and provided hands on training for Mushroom Cultivation** for High School students at St. Mary’s Matric School, Pallipet on 12<sup>th</sup> March 2019.

**Resource person** in the TNSCST sponsored Workshop under DIT scheme entitled “Dynamic programme on extraction of natural colourant as value added products from *Spirulina* biomass for socio economic empowerment of final year graduate students”, during 19<sup>th</sup> – 21<sup>st</sup> February 2019.

Delivered a **special invited talk** entitled ‘The Botanical Solutions’ at Meeenakshi College, Chennai on 18<sup>th</sup> February 2019.

Served as **Resource person** and delivered a talk entitled ‘Microbes that Changed the World’ in the ‘**Creation of Scientific Awareness (CSA) Program** catalysed and supported by Tamil Nadu State Council for Science and Technology (TNSCST) at MGR College, Hosur held during 6<sup>th</sup> – 8<sup>th</sup> February 2019.

Served as **Resource person** in the ‘In-service training for Science teachers of high school of Kanchipuram’, funded by TNSCST held during 21<sup>st</sup> – 25<sup>th</sup>, January 2019.

Served as **Co-Chair** in the **International symposium** on fungal biology: Advances, applications and conservation and 45<sup>th</sup> MSI meet Organised by NFCC, MACS' Agharkar Research Institute, GG Agarkar Road, Pune, India between 19<sup>th</sup> & 21<sup>st</sup> November 2018.

Served as a **Resource person and Delivered an invited lecture** on *Pharmaceutical potential of mushrooms* in the DBT sponsored Training programme on “Methods in microbial biotechnology and molecular biology” at Loyola College, Chennai, 18<sup>th</sup> and 19<sup>th</sup> February 2018.

**Chaired a session** in the **National conference** on “Fungal Biology: Recent trends and future prospects” and 44<sup>th</sup> Annual meeting of the Mycological Society of India at Department of Botany, Jammu University, Jammu. India, 16<sup>th</sup> - 18<sup>th</sup> November 2017.

**Delivered an invited talk on Biomass and Bioenergy from Fungi** in the **National conference** on “Emerging Trends and New Challenges in Biotechnology – A Step towards sustainable future” at PG and Research Departments in Biotechnology, MGR College, Hosur. India, 18<sup>th</sup> and 19<sup>th</sup> February 2016.

**Chaired a session** in the **National conference entitled** “CSIR sponsored National conference on emerging trends and new challenges in biotechnology”, at MGR College, Hosur, India 24<sup>th</sup> & 25<sup>th</sup> January 2013.

**Resource person**, for Workshop on “Mushroom Technology”, Department of Botany, JBAS College, Teynampet, Chennai, 6<sup>th</sup> & 7<sup>th</sup> January 2011.

**Resource person**, for Workshop on “Fungal Biotechnology”, CAS in Botany, University of Madras, Guindy Campus, Chennai. Handling basidiomycetes and practical classes, 14<sup>th</sup> – 20<sup>th</sup> July 2008.

**Resource person**, for Workshop on “Fungal Taxonomy”. 2007. CAS in Botany, University of Madras, Guindy Campus, Chennai. Sponsored by MoEF, handling and identification of basidiomycetes and practical classes.

## **HONORS AND AWARDS**

Received **Dr. A. P. J. Abdul Kalam Award for Young Scientist 2017** by Marina Labs, Chennai on 21<sup>st</sup> October 2017.

Won **Best oral presentation award**, 2011, National Conference held at CAS in Botany, University of Madras, Chennai, India.

Won **Best poster award** for poster presentation, 2010, National Conference held at CAS in Botany, University of Madras, Chennai, India.

Won **Best poster award** for poster presentation, 2007, International Conference held at NRCM, Solan, Himachal Pradesh.

## **ADMINISTRATIVE EXPERIENCE IN MCC**

Co-ordinator - Environmental Studies (2020-21 & 2021-22)

Enrolment officer in student enrolment (2018-19 & 2019-20)

Member of USAID-ASHA team for solar panel Project contributing for site identification

Assisted the Admission office in student admission (2015-2016 & 16-17)

Department representative for the E-content program from 2016 to till date

Department representative for the newsletter from 2014 to till date

Member of Anti Raging committee (2015-16)

Core committee Member of IQAC team for the compilation & submission of data to National Institutional Ranking Framework (NIRF) 2015-2017

Coordination of End of Semester Practical Examination of the Department (2012-2016)

Assisted the Department Admission (2018-19, 2019-20, 2020-21)

## **OTHER INFORMATION**

**Domain Expert (Botany)** in Syllabus Revision of Tamil Nadu state -*Text book writing for Higher Secondary*, conducted by State council for Educational Research and Training. Started on 27<sup>th</sup> November - 1<sup>st</sup> December 2017.

**Domain Expert (Botany)** in Syllabus Revision of Tamil Nadu state -*Text book writing for Higher Secondary*, Tamil Nadu State conducted by State council for Educational Research and Training. Started on 13<sup>th</sup> -15<sup>th</sup> November 2017.

**Domain Expert (Botany)** in Curriculum and Syllabus Revision of Tamil Nadu state (TNCF-2017) for *Drafting of Subject-wise Syllabus*, conducted by State council for Educational Research and Training. Started on 20<sup>th</sup> -23<sup>rd</sup> September 2017.

**Domain Expert (Botany)** in Curriculum Revision of Tamil Nadu state (TNCF-2017) - *Framing the Curriculum and Syllabus*, conducted by State council for Educational Research and Training. Started on 4<sup>th</sup> August 2017.