

**BIODATA**

**Name: Prof. P.K. Maheshwar**

**Designation: Professor**

**Department:** Microbiology, Yuvaraja's College, University of Mysore

**Specialization:** Bacteriology, Mycology, Molecular Biology and Medical Microbiology

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**Qualification:** M.Sc., M.Phil., P.hD.

Sl. No.	Degree obtained	University	Subject	Year	Grade
1.	M.Sc.	Kuvempu University	Microbiology	2000	First
2.	M. Phil.	University of Mysore	Seed technology- Specialization in Phyto- Bacteriology	2002	First
3.	Ph.D.	University of Mysore	Microbiology	2011	Awarded

**I) Teaching experience as permanent faculty: 18years**

\*Teaching experience in PG:

- \*1. Worked as resource person at DOS in Physics, University of Mysore
2. Working as resource person at Department of Molecular Biology, Yuvaraja's College, University of Mysore.

**II) Year of Declaration of Probationary period: 2005.**

**III) Research Project: Principal Investigator:** UGC sanctioned Major research Project Entitled- Serological and Molecular Investigation of Deoxynivalenol from Humans and Cattle from Several Districts of Karnataka, India. Total Amount Sanctioned. Rs. 11, 30,800 (2015-2018).

**PhD students:** 02 awarded

#### **IV) Research Papers Published**

**1. P.K.Maheshwar, S.Ahmed Moharram and G.R Janardhana.** Detection of fumonisin producing *Fusarium verticillioides* in paddy (*Oryza sativa* L.) using polymerase chain reaction (PCR).**Brazilian Journal of Microbiology. 2009:** 40:134-138. ISSN 1517-8382. **Impact factor 2.8.** Scopus Index Journal.

**2. P.K.Maheshwar and G.R Janardhana.**  
Natural Occurrence of Toxigenic *Fusarium proliferatum* on Paddy (*Oryza sativa* L.) in Karnataka, India. **Tropical Life Sciences Research. 2010:**21(1), 1–11. ISSN 1985-3718. Impact factor 0.2.**NCBI hosted Journal, Scopus Index Journal.**

**3.Sreenivasa, M.Y., Maheshwar, P.K., Sanjay, K.R., Diwakar, B.T.,Naidu, K.A. and Janardhana, G.R.** Effect of gamma irradiation on the incidence and fumonisins production by *Fusarium* species occurring on maize and

sorghum grains **Journal of Agricultural Technology. 2009:** 5 (2): 325-335; ISSN 1686-9141.

4. Charith Raj Adkar-Purushothama, **P. K. Maheshwar**; Teruo Sano, G. R. Janardhana. A Sensitive and Reliable RT-Nested PCR Assay for Detection of Citrus tristeza Virus from Naturally Infected Citrus Plants. **Current Microbiology.2011:**62:1455–1459: DOI 10.1007/s00284-011-9883-7. Impact factor 1.6. Scopus Index Journal.

5. Charith Raj Adkar-Purushothama, **P. K. Maheshwar** and G. R. Janardhana. First report of ‘*Candidatus Liberibacter asiaticus*’ associated with *Citrus decumana* (Beejapuraka) in South India. **Australasian Plant Disease Notes. 2011:** 6(1), 26-27.DOI 10.1007/s13314-011-0009-7. **Impact factor 3.5. Scopus Index Journal.**

6. C.R. Adkar-Purushothama, M.Y. Sreenivasa, M.N. Nagendra Prasad, **P.K. Maheshwar** and G.R. Janardhana. First report of Citrus Tristeza virus associated with stem pitting of *Citrus decumana* in India. **Journal of Plant Pathology. 2011:** 93: S4.63-89. **Impact factor 1.0. Scopus Index Journal.**

7. Adpangaya Sahana Bhaskara, Bandalli N Jawad Ahmed, Charith R Adkar-Purushothama, Mysore N Nagendra Prasad, Marikunte Y Sreenivasa & **Pavagada K Murthy Maheshwar.** . Evaluation of efficiency of hemi-nested PCR assay for the detection of ‘*Candidatus Liberibacter*’ infecting citrus. **Journal of Plant Diseases and Protection. 2013.** 120 (5/6), 189–193, ISSN 1861-3829. **Impact factor 1.0. Scopus Index Journal.**

**8. P.K. Maheshwar** and Adkar Purushothama C.R. Essential Amendments to Control Resistance to Antibiotics among Bacteria. **Research and Reviews: Journal of Microbiology and Biotechnology**. **2013**. 2 (4). 1-4. ISSN: 2347 – 2286.

**9.** A. B. Sahana , H. Nagaraja , **P. K. Maheshwar** , M. Y. Sreenivasa , M. N. Nagendra Prasad and C. R. Adkar-Purushothama. Affordable and reliable plant sap-mediated template preparation for the detection of various phytopathogens by PCR assay. **Phytoparasitica**. **2014**. 42:519–527 DOI 0.1007/s12600-014-0389-2. **Impact factor 1.0. Scopus Index Journal**.

**10.** Charith Raj Adkar-Purushothama, Mr. K Poornachandra Rao, Gurikar Chennappa, M Y Sreenivasa, M.N. Nagendra Prasad, **P. K. Maheshwar**, and Teruo Sano. Molecular identification of Chrysanthemum chlorotic mottle viroid Infecting Chrysanthemum in Karnataka, India **Plant Disease**. **2015**. 99 (12). pp. 1868. **Impact factor 3.0. Scopus Index Journal**.

**11. P. K. Maheshwar** and H. S. Jayanth. Microbiology as tool for research and development- an overview. Asian Journal of Microbiology, Biotechnology & Environmental Sciences. **2016**. Vol 18, (1);157-165. ISSN09723005. Impact factor 0.12. Scopus Index Journal. ISSN: 0972-3005.

**12.** C. R. Adkar-Purushothama, G. Chennappa , K. Poornachandra Rao, M. Y. Sreenivasa , **P. K. Maheshwar** , M. N. Nagendra Prasad and T. Sano. “Molecular diversity among viroids infecting chrysanthemum in India. **Virus Genes**. **2017**. 53:636–642 DOI 10.1007/s11262-017-1468-5. **Impact factor 1.5. Scopus Index Journal**.

**13. P. K. Maheshwar**, R. Nadu, Sanjay K. R. and Charith Raj Adkar Purushothama. **2018**. Investigation of Deoxynivalenol and its associated disturbances in urine creatinine. **Asian Journal of Microbiology, Biotechnology & Environmental Sciences**. **2018**. 20 (2): S204-S210. Impact factor 0.12. ISSN: 0972-3005. Scopus Index Journal.

**14.** B. L. Sudarshan, **P. K. Maheshwar**, P. Shanmukha Priya, K. R. Sanjay. Volatile and Phenolic Compounds in Freshwater Diatom, *Nitzschia palea* as a Potential Oxidative Damage Protective and Anti-Inflammatory Source. **Pharmacognosy Magazine**, 15, (64), (2). **2019**. S228-S236. **Impact factor 1.26**.

**15.** Sumalatha, P and **P. K. Maheshwar**. **2021**. Management of *Fusarium* species isolated from *Zingiber officinale* (Ginger) by essential oils. **Plant Archives**. 21:(1).306-310 ISSN : 0972-5210. Impact factor 0.12. Scopus Index Journal.

**16.** Sumalatha, P , Sreenivasa, M Y and **P. K. Maheshwar**. **2021**. Diversity of Fungi Associated with Onion (*Allium cepa*) and Ginger (*Zingiber officinale*) Produced From Karnataka, India. **Ecology, Environment and Conservation**. 27:301-311.ISSN : 0972-5210. Impact factor 0.12. Scopus Index Journal.

**17.** Ramya, N. and **P.K. Maheshwar**.**2021**.Bioaugmentation of *Bacillus subtilis* for the Degradation of Monocrotophos in Agricultural Soil from Karnataka, India. **Pollution research**. 40:S112-S119.Impact factor 0.12. Scopus Index Journal.

**18.** Ramya N, Bhat Sathish Shankar and **P. K. Maheshwar**. **2022**. Screening of blood cholinesterase level in farmers to evaluate the level of exposure to pesticide monocrotophos. **Indian Journal of Environmental**

**Protection.** 42(1):65-70 Impact factor 0.12. Scopus Index  
Journal.ISSN0253-7141.

**19. Ramya N and P. K. Maheshwar. 2022.** Intra species variation among *Bacillus subtilis* isolated from monocrotophos contaminated agricultural soil. Research Journal of Biotechnology. 17(1).40-45. Scopus Index Journal.ISSN. PRINT-ISSN 0973-6263, E-ISSN 2278-4535. doi: <https://doi.org/10.25303/1701rjbt4045>.

20. Sumalatha, P and **P. K. Maheshwar. 2022.** Effect of gamma irradiation on fungal contamination of onion during storage. Journal of Mycopathological Research. 60 (3) : 443-448, 2022; ISSN 0971-3719.

#### **V) BOOK/BOOK Chapter**

1. **P. K. Maheshwar. 2018.** Hygiene the key for a healthy society, In: Infrastructure and Sustainable Development. Ed. Mahadevaiah, Basudev Somani College, Mysuru. Spring Leaf Publications. ISBN: 978 81 927970 9 0.

2. **P. K. Maheshwar. 2020. Immunity and Antibiotics.** Lambert Academic Publishing International Book Market Service Ltd. Brivibas gatve 197, LV-1039, Riga, Latvia, **European Union** - ISBN-978-620-0-65586-8, 51pp. **(Full version Text book).**

## **VI) Academic distinctions:**

- i. Reviewer for the Journal Bulletin of the World Health Organization published by World Health Organization (WHO).**
- ii. Participated as reviewer in World Health Organization (WHO) policy making article on strategies to control microbial resistance to antibiotics and TB control practices**
- iii. Qualified CSIR- UGC- National Eligibility test** jointly organized by Council of Scientific and Industrial Research and UGC.
- iv. Worked as Resource person** in workshop on ‘Techniques in Molecular Biology’ at The Department of Studies in Botany, University of Mysore.
- v. Delivered many lectures** in Microbiology as resource person, at Karnataka State Open University (KSOU).
- vi. Delivered lectures as resource person** for NET coaching center, EMMRC, University of Mysore, Mysore.
- vii. Delivered 05 E-contents for UGC MOOC in Food technology** with Educational Multimedia Research Centre, University of Mysore, Mysore, Submitted to UGC.
- viii. Delivered 09 E-content for UGC MOOC in Virology EMMRC** University of Mysore, Mysore, Submitted to UGC.
- ix. Developed ICT** for students and public awareness on spread of infectious diseases.



**VII) Brief note on responsibilities shouldered for the University:**

1. Worked as Chairman BOE in Microbiology (UG) Yuvaraja's college (autonomous), Mysore.
2. Participated as BOS Chairman and member Microbiology (UG) at Yuvaraja's college (autonomous), Mysore.
3. Worked as Chairman BOE in Molecular biology (PG) Yuvaraja's college (autonomous), Mysore.
4. Working as Member of RUSA, IQAC, Placement committee, Admission Planning and development committee at Yuvaraja's college. University of Mysore, Mysore.
5. Worked as Inter University Cultural committee member.
6. Worked as Inter University Sports committee member.
7. Worked as Organizing committee member in Indian Science congress 2016.
8. Served as Head of the Department from 2016-2018.
9. Serving as Head of the Department from 2020-till date.

### VIII) Seminars and Conferences attended

- i. National conference on Plant biodiversity and bioprospectus (conducted from March 16-17, 2009) held at Dept of Botany, University of Mysore. Mysore. **(Awarded with second prize for poster presentation).**
- ii. Symposium on Microbial Energy held at Department of Studies in Microbiology and Sir M. Vishveshvaraiah Chair, University of Mysore, Mysore, 15 September, 2010.
- iii. International Symposium on 'Challenges in drug discovery' held at Karnataka State Open University, Mysore from 16-17 March, 2011.
- iv. UGC sponsored two days State level seminar on Methods in clinical diagnosis. From 03-04 February, 2012. JSS College for Women, Mysore.
- v. UGC Sponsored Two days National Conference on Recent Trends in Chemical Biology An Overview 25 and 26<sup>th</sup> October 2013. Teresian College, Mysore.
- vi. UGC sponsored Two days National conference on "Driving stem cell research towards therapy - a vision of the future" on March 20<sup>th</sup> & 21<sup>st</sup>, 2014. SBRR Mahajana First Grade College, Mysore.
- vii. UGC Sponsored National Seminar on Statistical Methods and Data analysis. (Organizing Committee member). 26 and 27<sup>th</sup> September 2014. Yuvaraja's college, University of Mysore.
- viii. UGC sponsored two days National symposium Microbes and Human welfare, 23 and 24<sup>th</sup> February, 2015. JSS College Ooty road, Mysore.

- ix. Worked as organizing committee member in 103<sup>rd</sup> Indian Science Congress January 03<sup>rd</sup> to 7<sup>th</sup> 2016. Jointly organized by The Indian Science Congress Association (ISCA) and University of Mysore.
- x. Attended National Training on Applications and Trouble shooting of scientific equipments organized by University of Mysore at Vijnana Bhavan from 01-12-17 to 08-12 -17.
- xi. Participated in National symposium on Trends in Microbiology held in Department of Microbiology. University of Mysore on 12-05-17.
- xii. Participated in National seminar on Biofarming for Sustainable Agriculture Organized by Maharani Science College for women Mysore under the auspices of UGC New Delhi on 13 -03-18.
- xiii. Participated in UGC sponsored National seminar Innovations and Challenges in Life sciences. JSS College Arts and science. Mysore.05-03-2020.

## XI) Research Papers/posters presented/attended in Seminars/Conference

- i. **Maheshwar P.K.**, M. Y. Sreenivasa, and G. R. Janardhana. 2009. Diversity of *Fusarium* species occurring on paddy produced in Karnataka, India. National conference on Plant Biodiversity and Bioprospecting, March 16-17, DOS in Botany, University of Mysore, Mysore, Karnataka. **(Best poster award)**.
- ii. M.Y. Sreenivasa, Regina Sharmila Dass, **Maheshwar P K** and G. R. Janardhana. 2009. Diversity of *Fusarium* species occurring on maize and sorghum grains produced in Karnataka, India. National conference on Plant Biodiversity and Bioprospecting, March 16-17, DOS in Botany, University of Mysore, Mysore, Karnataka.
- iii. Janardhana G. R., M.Y. Sreenivasa, **P.K. Maheshwar**. 2010. Diversity and fumonisin producing *Fusarium* species in cereals and their molecular detection. National Symposium on Perspective in the Plant health management. Indian Phytopathological Society, India and Department of Plant pathology, Anand Agricultural University, Gujarat, India. December 14 –16, 2010.
- iv. Janardhana G. R., M.Y. Sreenivasa, **P.K. Maheshwar** and R. S. Dass. 2010. Molecular detection and differentiation of fumonisin producing *Fusarium verticillioides* and *Fusarium proliferatum* isolated from cereals and cereal based feeds. National Symposium on Molecular approaches for Management of fungal diseases of crop plants. Indian institute of Horticultural Research, Bangalore, India. December 27-30, 2010.
- v. **P. K. Maheshwar**, M.Y. Sreenivasa and G.R. Janardhana. Dr. Norman E. Borlaug Commemoration National Conference on Plant Diversity and Plant Health at Department of Studies in Botany, University of Mysore, Mysore, 11-12 March, 2010 (Oral presentation).

- vi. Nandu R, **P K Maheshwar**. International conference on science and technology future challenges and solutions (STFCS-2016). University of Mysore, Mysore August 8-9. 2016 (Poster presentation).
  
- vii. Sumalatha P, M.Y. Sreenivasa and **Dr P. K. Maheshwar**, National Conference on Science and Technology: Rural Development, at Center for Materials Science and technology University of Mysore, Mysore, 17-18 October, **2019 (Best Poster awarded)**.
  
- viii. Ramya, N and **Dr. P.K. Maheshwar**, National Conference on Science and Technology: Rural Development, at Center for Materials Science and technology University of Mysore, Mysore, 17-18 October, 2019.

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