

CURRICULUM VITAE



DR.M.POORNA CHANDER RAO
Assistant Professor of Botany,
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Career Objective

To be associated with a progressive organization and academic institutions to work for curricular activities and projects in the field of Plant Science, Microbiology, Environmental Sciences which may affect the livelihoods of farmers & mankind. Desired to implement the expertise of green and eco-friendly technology to develop quality products useful for mankind. Dedicated, enthusiastic with outstanding academic, communication, organizational, people skills, self-improvement and to teach life sciences towards the academic progression among the Graduate and Post-Graduate students.

Professional summary

- ❑ Expertise in Advanced techniques in Plant sciences, Microbiology, Plant physiology, Biochemistry and Biotechnology tools for Sustainable Agriculture Development.
- ❑ Strong experience in Teaching for UnderGraduate students with computer skills.
- ❑ Ability to work independently and as a team member with strong interpersonal & leadership skills.

Professional Experience

- ❑ Working as ***Assistant Professor of Botany*** in Government Degree Colleges of Telangana State under the Commissionerate of Collegiate Education from Dt. 26-12-2011.

- ❑ Worked as *Assistant Professor of Botany* in Government Degree College, Mahabubabad from Dt. 26-12-2011 to 29-06-2018.
- ❑ Presently working as *Assistant Professor of Botany* in Government Degree College, Paloncha from Dt. 30-06-2018 to till date.
- ❑ I have completed one *Minor Research Project* with the title of “*Isolation of Indigenous Polycyclic Aromatic Hydrocarbons Degrading Bacteria from Coal Mines in Khammam Dist.*” With the Financial support of UGC – SERO under XII plan.
- ❑ I have worked as *CSIR – JRF* for two years *i.e.* 2010 to 2012 during my Ph.D work at Department of Botany, Osmania University, Hyderabad.
- ❑ Taking partnership as Life Time membership with *Mycological Society of India* from 2017.
- ❑ I have worked as Contract Degree Lecturer in Botany for UG Students from June 2009 to mar 2010 in Government Degree College, Yellandu, Bhadradri Dist.
- ❑ I have worked as a Botany teaching faculty in Priyadarshini Degree College, Kothagudem from June 2007 to March 2008.
- ❑ I have worked as a Botany teaching faculty for M.Sc. students in KLR Degree & PG College, Paloncha from June 2008 to mar 2009.

Educational Profile

- ❑ Awarded Ph.D. on 22nd November 2014 from Department of Botany, Osmania University, Hyderabad for the research work on ‘Rhizodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) by Plant Growth Promoting Rhizobacteria (PGPR)’ with financial assistance of CSIR – JRF, New Delhi.
- ❑ Qualified Joint CSIR-JRF and UGC- NET Examination in June 2009.
- ❑ Qualified Joint CSIR and UGC- NET Examination Dec 2007.
- ❑ M.Sc. (BOTANY) with the specialization of Applied Mycology & Molecular Plant Pathology from 2005 to 2007.

Academic Profile

S. No.	Name of Education	Academic year	University/Board	Year of Pass	Marks/Total	%of Marks
1	Doctorate of Philosophy (Ph.D.)	2010-2014	Osmania University	Awarded in 2014	NA	NA
2	Master of science (M.Sc.) (BOTANY)	2005-07	Osmania University	2007	1851/2400	77%
2	Bachelor of science(B.Sc.) (Microbiology, Botany, Chemistry)	2002-05	Kakatiya University	2005	1408/1800	78%
3	Intermediate Education	2000-02	Board of Intermediate Education	2002	835/1000	83%
4	Secondary school of Education (SSC)	1999	Board of Secondary Education	1999	419/600	70%

Research Publications

I have published many Research articles and attended many symposia. Few of them quoted below :

1. **M. Poornachander Rao**, Anitha Yerra, K. Satya Prasad(2020). Rhizodegradation of Phenanthrene, Anthracene and Pyrene by augmenting *Bacillus cereus* and *Bacillus subtilis* strains. International Journal of Advanced Research. 9(02), 89-96., pp 89-96. ISSN: 2320-5407
2. **M. Poornachander Rao**, Anitha Yerra, K. Satya Prasad(2017). Rhizodegradation of PAHs by augmenting PGPR strain *Bacillus subtilis* SPC14. *International journal of Biology Pharmacy and Allied Sciences*. ISSN: 2277-4998; Volume 6(9)., pp 1816 – 1828.

2. **Poornachander Rao, M., Anitha Yerra and Satyaprasad K.(2017).** Rhizodegradation of Polycyclic Aromatic Hydrocarbons (PAHs) by *Bacillus cereus* CPOU13. *International Journal of Current Research*. ISSN: 0975-833X; Volume 9:12., pp 62288-62293.
3. **M. Poornachander Rao and Anitha Yerra(2017).** Identifying diversity of Polycyclic Aromatic Hydrocarbons(PAHs) degrading bacteria in coal samples of Bhadradi Kothagudem District. *World Journal of Pharmacy and Pharmaceutical Sciences*. ISSN: 2278-4357; Volume 6:8., pp 1283-1296.
4. **M. Poornachander Rao(2016).** Isolation of polycyclic aromatic hydrocarbons (PAHs) degrading bacteria from an open coal mine samples-Kothagudem, Telangana, India. *International Journal of Advances in Pharmacy, Biology and Chemistry*. ISSN: 2277-4688; Vol. 5(3), pp 293-302.
5. **M. Poornachander Rao(2016).** Existence of Polycyclic Aromatic Hydrocarbons (PAHs) Degrading Bacteria in Coal Samples. *International Journal of Advanced Research*. ISSN: 2320-5407; Volume 4(8), pp 2273-2282.
6. **Poornachander Rao M, Anitha Yerra, Satyaprasad K(2016).** Abilities of *Bacillus Cereus* CPOU13 in Biodegradation of Polycyclic Aromatic Hydrocarbons (PAHs). *Journal of Pharmaceutical, Chemical and Biological Sciences*; ISSN: 2348-7658; Volume 4(1): pp 54-63.
7. **Poornachander Rao M., Anitha Y., Satyaprasad K.(2016).** Combined effect of *Bacillus cereus* CPOU13 and *B. subtilis* SPC14 on polycyclic aromatic hydrocarbon degradation *in vitro*. *International Journal of Bioassays*. ISSN: 2278 – 778X; Volume 5.4: pp 4505 – 4511.
8. **Poornachander Rao M, Anitha Y, Ashokvardhan T, Satyaprasad K(2016).** Biodegradation of Phenanthrene, Anthracene and Pyrene *in vitro* by *Bacillus subtilis* SPC14. *International Journal of Pharmaceutical Sciences Review and Research*. 37 (2): March - April 2016; Article No. 36, Pages: 207-213. ISSN: 0976-044X.
9. **M. Poornachander Rao, A.B. Rajitha Sri, T. Ashokvardhan, K. Satya Prasad (2015).** Effective Polycyclic Aromatic Hydrocarbons Degrading Rhizobacteria with PGP Traits from Plants Growing on Fly Ash in the Premises of Thermal Power Station–Kothagudem, Telangana State, India. *International Journal of Science and Research (IJSR)*: Volume 4 Issue 5, 1880- 1885. ISSN: 2319-7064.
10. **M. Poornachander Rao, A.B. Rajitha Sri, K.Sagar and K. Satyaprasad (2015).** Isolation of Polycyclic Aromatic Hydrocarbons Degrading PGPR from a Oil

- products Contaminated Site in Hyderabad, Telangana State, India. *International Journal of Pharma and Bio Sciences*. 6(4B): 305 - 317. ISSN: 0975-6299.
11. Ashokvardhan. T, Rajithasri. A. B, **Poornachander Rao. M** and Satya prasad. K (2015) Plant growth promoting (PGP) activity of actinomycetes isolated from the rhizosphere of *capsicum annuum* L. *World Journal of Pharmaceutical Research*. Vol 4, Issue 08, 2015.2508-2516. ISSN: 2277-7105.
 12. A.B. Rajitha Sri, P. Prathyusha, T. Ashokvardhan, **M. Poornachander Rao**, K. Sagar and K. Satya Prasad (2014). "Plant Growth Promoting Attributes of Some Rhizosphere Bacteria Associated With Cotton Var. Neeraja (*Gossypium hirsutum*) And Their Importance". *International Journal of Pharmacy and Integrated Life Sciences*. 3(1):55-63. ISSN: 2320 – 0782.

National & International Conferences / Webinars / Seminars / Symposia

attended & presented papers

International Seminars / Webinars

1. The International Webinar, "*Philosophical Moorings of Nature and Pandemics*" organised by the Department of Political Science of St. Ann's College for Women, Hyderabad on 03-09-2020.
2. International conference on "*Climate Change – Perspectives and Projections – A systems Approach*". Organized by Osmania University, Hyderabad from 09-12-2010 to 11-12-2010 at Osmania University, Hyderabad.

National Seminars / Webinars

1. Two days national seminar on '*Recent Advances in Plant Sciences*'. Organized by Department of Botany, Singareni Collieries Womens Degree & P.G. College from 29-10-2014 to 30-10-2014.
2. Two Days national seminar on "*Recent Trends in Plant Sciences*". Organized by the Department of Botany, Pingle Govt. College for Women from 11-09-2014 to 12-09-2014.

3. National Symposium on “*Current Trends in Biotechnology*”. Organized by Department of Botany, Osmania University, Hyderabad from 07-12-2013 to 08-12-2013.
4. Two days National Seminar on ‘*Traditional Medicine & Health Practices*’. Organized by Dept. of Botany, SR&BGNR Govt. Arts & Science College, Khammam from 26-10-2013 to 27-10-2013.
5. National Conference on “*Declining Interest in Science Education and Research among Students: Reasons and Remedies*”. Jointly organized by AP Akademi of Sciences and Osmania University College for Women at IICT, Hyderabad dates from 29-03-2013 to 30-03-2013.
6. National Conference on “*Problems of Farming Community: Reasons and Remedies*”. Organized by the Department of Botany, Osmania University College for Women, Koti and Hyderabad on 30-09-2010.

State Seminars / Webinars

1. Presented a paper on “*Scope of PGPR in Bioremediation Systems*” in state level conference “*Biodiversity and conservation*” organized by Nagarjuna Govt. College, Nalgonda on date: 04-02-2014.

Attended Refresher Course / Orientation Course / Workshops

1. **Two Week Online Faculty Development Program** on “Learning Advanced E-tools for MOOCs Development & Research” conducted by MHRD & Ramanujan College, University of Delhi from 01-09-2020 to 14-09-2020.
2. **Refresher Course** in Life Sciences conducted by Maulana Azad National Urdu University from 17-09-2020 to 30-09-2020.
3. Six day online **UGC-HRDC-RUSA Faculty Improvement Programme** on “ICT Tools in Higher Education” at Osmania University, Hyderabad from 12-08-2020 to 19-08-2020 (06 days).
4. ‘**Orientation Course**’ conducted by Academic Staff College, Maulana Azad National Urdu University, Gachibowli, Hyderabad from 10-05-2012 to 06-06-2012 (26 days).
5. ‘**Refresher Course**’ conducted by UGC-Academic Staff College, Andhra University, Visakhapatnam from dates 24-01-2014 to 13-02-2014 (21 days).
6. **3-Day Training Program** on “*Mainstreaming Environment & Climate Science in Higher Education*” conducted at MCRHRD, Banjara Hills, Hyderabad from dates 26-06-2013 to 28-06-2013.

7. **3-Day Introductory Workshop** on ‘*Human Values and Professional Ethics*’ at IIIT, Gachbowli, Hyderabad dates from 05-02-2015 to 07-02-2015.
8. **Five Days Training Program** to P.G. Teachers of Affiliated Colleges in his subject concerned Organized by Department of Botany, Kakatiya University, Warangal and AP State Council of Higher Education, Hyderabad dates from 01-07-2008 to 05-07-2008.

Professional Skills

Field experience:	Planning and preparation of field layouts and records, screening and selection.
Molecular techniques:	Isolation of nucleic acids: DNA, RNA, PCR techniques: RT PCR.
DNA marker techniques:	SSRs, RAPD, RFLP and AFLP.
Biochemical Techniques:	Electrophoresis techniques: Poly-Acrylamide gel electrophoresis, High throughput Agarose gel electrophoresis, Paper and plate chromatography, estimation of proteins, amino acids, carbohydrates
Equipment handled	<input type="checkbox"/> HPLC, UV VIS, Microwave digestion system, Agarose Gel Electrophoresis, SDS-PAGE, Gel Documentation System and GC-5000(Gamma Chamber- 5000). <input type="checkbox"/> Culture media preparation, Culturing of microbes includes Bacteria, Fungi & maintenance of pure cultures. <input type="checkbox"/> Conduction of biochemical tests with respect to microbiology. <input type="checkbox"/> Molecular Techniques like Chromatography –PC, TLC, Ultra-Centrifugation, SDS-PAGE Electrophoresis, Autoradiography, DNA hybridization, Blotting techniques. High Performance Liquid Chromatography (HPLC), Liquid Chromatography -Mass Spectroscopy (LC-MS), Gas Chromatography-Mass Spectroscopy (GC-MS), UV- spectroscopy, Colorimetry etc.,

Personal Profile and Permanent Address

Name : Dr.M. Poorna Chander Rao
 Father's name : M. Satyanarayana
 Date of birth : Feb 12th, 1984.

Marital status : Married.
Religion : Hindu
Nationality : Indian.
Languages known : Telugu, English & Hindi

I declare that the above mentioned information is true according to my knowledge.

Date:

Signature

Place: