

Profile



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Educational Qualifications: M.Sc., Ph.D.

Department : Botany

Teaching Experience : Three years as Lecturer in Botany at KBN College, Vijayawada.

Research Experience: Ten years Research and teaching at Acharya Nagarjuna University, Guntur, Andhra Pradesh, INDIA.

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Ph.D. Thesis Title: Preliminary and biochemical characterization of rhizobacterial strains isolated from root nodules of *Vigna trilobata*.

Ph.D. Research supervisor : Dr. M. Raghu Ram, Associate Professor, Dept.of Botany, Acharya Nagarjuna University.

- Area of Interest :**
1. LEGUME RESEARCH
 2. MICROBIAL ENZYMES
 3. ENDEMIC MEDICINAL PLANTS

List of Publications: : **28**{enclosed}

National & International Publications : **25**

Publications in communication : **3**

No of workshops and seminars attended : **30**

Achievements

- **Gold medal in Post graduation (M.Sc .BOTANY)**
- **UGC Major research project fellow (UGC-MRP 2010-2013)**
- **Best publication award 2016 (International Journal of Biotechnology and Research)**

Project title: Molecular characterization of rhizobial strains isolated from root nodules of *Vigna trilobata* cultivars from Andhra Pradesh.

BEST PAPER AWARD (SCOPUS JOURNAL) TITLE: **Kranthi Kumar, G., and Raghu Ram, M., (2016). Bioproduction of indole 3- acetic acid by *Rhizobium* strains isolated from root nodules of *Vigna Trilobata* cultivars, *International Journal of Bio-Technology and Research*, 6(1):1-12.**

B.Sc. (Life Sciences Programme) QUESTION PAPER SETTER : From 2018 onwards

1. Botany

2. Microbiology

3. Biotechnology

4. Environmental Sciences

IGNOU TRANSLATOR: MOOCS PROJECT (12 Chapters in 3 Books): 2019- 2020

1. Certificate Course in Sustainable development: 8 Chapters

2. Awareness programme on Pomegranate & Guava: 3 Chapters

3. Certificate Course on environmental sustainability : 1 Chapters

Resource person: Delivered invited talk on Role of Microbes in Agriculture in National conference plants and Environment (Virtual mode). Organised by department of botany, tribal welfare degree college for women, Nizamabad.,Telangana.

ORGANIZED PROGRAMS WEBINARS/ SEMINARS: 5

1. As a co convener organised one day national level workshop on farmer technology at KBN college, Vijayawada on December 22- 2019.
2. As the Head of the department, Botany, K.B.N. College, Organised a national level online quiz program on Covid-19 Lockdown boon for environment on 11-06-2020.
3. As the Head of the department, Botany, K.B.N. College, Organised a national level online quiz program on medicinal plants & herbal drugs on June 20th to 22nd 2020.
4. As a coordinator and Head of the department, Botany, K.B.N. College. Organised Science Academy sponsored two day national level virtual workshop on Recent trends in biotechnology and conservation of medicinal plants in India on October 19th and 20th 2020.
5. As an organising member for Naac sponsored two day national conference on Impact of best practices in quality enhancement in higher education institutions on December 4th & 5th -2020.

NEWS PAPER ARTICLE FOR STRESS RELEASING PLANTS

Published an article in Eenadu news paper on 26th January-20202 about stress relief indore/ outdore plants.

EDITORIAL BOARD MEMBER

1. Advisory Board member in World journal of pharmaceutical research (FROM MAY- 2019 ON WORDS)
2. Editorial board member for International journal of pharmaceutical science and research (From September -2019 on words).
3. Editorial board member for Asian Journal of Agricultural sciences (Science Alerts)
4. Editorial board member for International journal of microbiology and biotechnology- February 13- 2020.

REVIEWER :

1. Asia Pacific journal of multidisciplinary research. 1st April 2020.
2. Journal of applied and natural science- 2019
3. International journal of creative research thoughts-2019
4. International journal of scientific research in science and technology-2019
5. Journal of green reports -2019.

6. Octa microbiology Journal (ASMI): 2020

7. International Association for Agricultural Sustainability

MEMBERSHIPS :

1. Indian science congress Association = life member :L39107
2. Association of Microbiologists in India= 4903-2019, Life member
3. ASIAN SOCIETY OF RESEARCHERS (ASR): R219052101.
4. Scientific and Technical Research Association (STRA): STRA-M19605
5. International journal of creative research thoughts (Membership = ID: 114854)
6. Health care and biological sciences Research association (Membership no: HBSRA –M 19451)
7. Teaching and Research Association (TERA): life time
8. Ariviyal publishing. Jan 2019- Dec 2020
9. The international management research and technology consortium (IMRTC), USA-NA3355647.

Resource person:

1. **Acted as jury member for AMARAVATHI BALOTSAVAM Science fair- 2019**, on August 29th , 30th , & 31st at SRR&CVR COLLEGE, Vijayawada, Andhra Pradesh.
2. **Acted as jury member for Dr. Sudha Science quest 2019-2020, on November 29th at St. Johns E.M. school, Vidyadharapuram, Vijayawada, Andhra Pradesh.**
3. **Acted as jury member for Dr. Sudha Science quest 2019-2020, on November 30th at St. Johns E.M. school, Gunadala campus, Vijayawada, Andhra Pradesh.**
4. **Acted as jury member for INSPIRE-MANAK 2019-2020 District level exhibition & Project competitions (DLEPC) KRISHNA on 3rd February-2020 at Don Bosco Scholl, Guntupalli, Andhra Pradesh.**
5. **Evaluator for state event of 28th NCSC 2020 held at APCOST RSC Complex, VIJAYAWADA, ANDHRA PADESH on 7th &8th January 2021.**

PAPERS PRESENTED:

1. Studies on Phyto chemical analysis and Antimicrobial activity of selected medicinal plants: Kakinada, 2019.

2. PRODUCTION OF CATECHOL TYPE OF SIDEROPHORES BY *BACILLUS* *ALTITUDINIS* AND *PAENIBACILLUS* SPECIES ISOLATED FROM ROOT NODULES OF *VIGNA TRILOBATA* (L.) VERDC. CULTIVARS. BMPO Symposium. Acharya Nagarjuna University. 2018.

Text books

1. G. Kranthi kumar And M.Raghu Ram, Characterization of Rhizobacterial strains from *Vigna trilobata*- (2019). Lambert publication
2. G. Kranthi kumar Postgraduate entrance exam for Life Sciences (In press) – Lambert publications (2020).
3. G. Kranthi kumar Text book of Biodiversity (In press)- Arivial Publications (2020).

Faculty participation/ presented in seminars/ conferences and symposia during the year 2019-2020. : 5 Programmes

List of Research Publications

1. **Kranthi Kumar, G.,** and Raghu Ram, M., (2014). Effect of carbon and nitrogen sources on exopolysaccharide production by *rhizobial* isolates from root nodules of *Vigna trilobata*, *African journal of microbiology research*, 8(22): 2255-2260. **SCI:0.22**
2. **Kranthi Kumar, G.,** and Raghu Ram, M., (2014). Phosphate Solubilizing *Rhizobia* isolated from *Vigna trilobata*, *American Journal of Microbiological Research*, 2 (3):105-109. **SCI:0.22**
3. **Kranthi Kumar, G.,** and Raghu Ram, M., (2016). Bioproduction of indole 3- acetic acid by *Rhizobium* strains isolated from root nodules of *Vigna Trilobata* cultivars, *International Journal of Bio-Technology and Research*, 6(1):1-12. **(Scopus)-Impact factor: 3.751**
4. **Kranthi Kumar, G.,** and Raghu Ram, M., (2016). Plant growth promoting characteristics of *Rhizobial* strains isolated from root nodules of *Vigna trilobata* cultivars. *International journal of Microbiology research*, 8(8):781-784. **Impact factor: 4.342**
5. **Kranthi Kumar, G.,** and Raghu Ram, M., (2016). Characterization of *Agrobacterium tumifaciens* strains isolated from root nodules of *Vigna trilobata* cultivars. *International journal of pharma and biosciences*, **SCI 7(4):(B)532-539. Impact factor: 6.752**

6. **Kranthi Kumar, G.**, and Raghu Ram, M., (2016). Chitinase production by rhizobacterial strains isolated from root nodules of *Vigna trilobata* cultivars. *International Journal of Agricultural Science and Reseah*, 6(5):85-92. (Scopus): **Impact factor: 5.9857**
7. **Kranthi Kumar, G.**, and Raghu Ram, M., (2016). Characterization of *Sinorhizobium* and *Ensifer* species isolated from root nodules of *Vigna trilobata* cultivars. *International journal of Current Research*, 8(11):40917-40922. **Impact factor: 7.086**
8. **Kranthi Kumar, G.**, and Raghu Ram, M., (2017). Plant growth promoting characteristics of non-rhizobial strains isolated from root nodules of *Vigna trilobata* cultivars. *International Journal of Agricultural Science and Research*, (Scopus) 7(2):273-278. **Impact factor: 5.9857**
9. **Kranthi Kumar, G.**, and Raghu Ram, M., (2018). Characterization of exopolysaccharide producing *Sinorhizobium kostisense* MRR 104 isolated from root nodules of *Vigna trilobata*. *International journal of pharma and biosciences*, SCI 9(2):160-165. **Impact factor: 6.752**
10. **Kranthi Kumar, G.**, and Raghu Ram, M., (2018). Preliminary characterization of *Rhizobacterial strains* isolated from legume [*Vigna trilobata* (L.) verdc.] root nodules. *International Journal of Scientific Research in Science and Technology*, 4(7): 279-284. **UGC Approved.**
11. Silpa, D. Brahmaji Rao. P. **Kranthi kumar. G.** Raghu Ram. M. (2018). Screening of amylase producing bacillus sp. isolated from banana rhizosphere. *International journal of pharmacy and pharmaceutical research*, 11(2): 134-142. **Impact factor: 5.016.**
12. Silpa, D. Brahmaji Rao. P. **Kranthi kumar. G.** Raghu Ram. M. (2018). Plant Growth Promoting Characteristics of *Bacillus Licheniformis* DS3 Isolated From Agriculture Field Soil. *International Journal of Scientific Research in Science and Technology*, 4(2): 1479-1484. **UGC Approved.**
13. Silpa, D. Brahmaji Rao. P. **Kranthi kumar. G.** Raghu Ram. M (2018). Studies on Gibberellic acid production by *Bacillus licheniformis* DS3 isolated from Banana field soils. *International journal of Scientific Research in Science and Technology*, 4(5): 1106-1112. **UGC Approved.**
14. D. Silpa, P. Brahmaji Rao, **G. Kranthi kumar** (2018). Optimization Studies on Alpha Amylase Production by *Bacillus licheniformis* DS3 and *Bacillus subtilis* DS7 using Submerged Fermentation. *World journal of pharmaceutical research*, 7(8): 1231-1239. **Impact factor: 8.074**

15. D. Silpa, P. Brahmaji Rao, **G. Kranthi kumar** (2018). Effect of different concentrations of metal ions on α -amylase production by *Bacillus licheniformis* DS3. *World journal of pharmaceutical research*,7(7): 2061-2072. **Impact factor: 8.074. UGC Approved.**
16. D. Silpa, P. Brahmaji Rao, **G. Kranthi kumar** (2018). Production and Optimization of Alpha Amylases using Banana waste by *Bacillus licheniformis* DS3 under Solid State Fermentation, *International Journal of Research in BioSciences* (IJRBS)7(3):18-25.
17. D. Silpa, P. Brahmaji Rao, **G. Kranthi kumar** (2018). Biocontrol activity of Siderophores producing *Bacillus licheniformis* DS3 against several pathogenic fungi in Black gram [*Vigna mungo* (L.) Hepper], *International journal of current research*, 10(7):71590-71594. **Impact factor: 7.086**
18. Ndiogou GUEYE, **kranthi kumar G**, Adiouma DANGUE¹, Mame Arama FALNDIAYE¹, Tahir A. DIOP¹, M Raghu Ram(2018), Bioproduction Of Indole 3-Acetic Acid By *Trichoderma* Strains Isolated From Agriculture Field Soils In Senegal, *World journal of pharmaceutical research*,7(17):817-825. **Impact factor: 8.074. UGC Approved.**
19. K. Ravi, **G. Kranthi kumar** and M. Raghu ram (2019). Polygalacturonase production by *Aspergillus nomius* MR103 in Solid State Fermentation using Agro- Industrial wastes. (*Journal of Applied and natural Science= UGC approved journal*), **11 (2): 305-310.**
20. K. Nagendra Prasad¹ **G. Kranthi Kumar**² and M. Raghu Ram*³. (2019). Studies on Phyto Chemical constituents and antibacterial activity of endemic medicinal plant *Anodendron paniculatum*, *International journal of pharmacy and biological sciences*, **Ugc –Approved.**
21. K. Nagendra Prasad¹ **G. Kranthi Kumar**² and M. Raghu Ram*³. (2019). Antioxidant activity and production of secondary metabolites of adult plant and in vitro calli of *Anodendron paniculatum*, (*Journal: Applied and natural Science*; **11 (3): 632-635(UGC APPROVED).**
22. Ndiogou GUEYE, **kranthi kumar G**, Adiouma DANGUE¹, (2019). Mame Arama FALNDIAYE¹, Tahir A. DIOP¹, M Raghu Ram (2019), Protease production by *Trichoderma* strains isolated from Agriculture Field Soils In Senegal. *Journal of food agriculture & environment vol 17 (3&4 july-october)*. **SCOPUS-SCI: 75-79. UGC- CARE LIST**
23. Ndiogou GUEYE, **kranthi kumar G**, Adiouma DANGUE¹, Mame Arama FALNDIAYE¹, Tahir A. DIOP¹, M Raghu Ram (2020), Chitinase production by *Trichoderma* strains isolated from Agriculture Field Soils In Senegal. *Journal of applied biology and biotechnology*, 8 (2): 40-44 (**UGC- CARE LIST, Web of science, Scopus.**
24. K. Nagendra Prasad¹ **G. Kranthi Kumar**² and M. Raghu Ram*³. (2020). In-vitro regeneration of endemic medicinal plant *Anodendron paniculatum* from nodal segment explants. *Research journal of Agricultural sciences*, 11(5): 1106-1109. (**UGC- CARE LIST). Accepted.**

25. G. Kranthi kumar*1 and M. Raghu Ram2 (2020). Production of catechol type of siderophores by *bacillus altitudinis* and *paenibacillus* species isolated from root nodules of *vigna trilobata* (L.) Verdc. Cultivars, *Research journal of biotechnology*, **Web of science, ugc care list, Scopus. Accepted.**

Publications in communication (Press)

26. G. Kranthi kumar*1 and M. Raghu Ram2 (2021). Hydroxamate type of Siderophore production by rhizobacterial strains isolated from root nodules of *Vigna trilobata*, *Research journal of biotechnology*, **Web of science, ugc care list, Scopus. Accepted.**

27. G. Kranthi kumar (2021). Studies on growth enhancement of *Hibiscus cannabinus* by using natural farming techniques, *World journal of pharmaceutical research*, **Accepted.**

28. D. Silpa², G. Kranthi kumar*¹, M. Raghu Ram² (2021). Bio production of Indole 3-Acetic Acid by *Bacillus pumilus* DS5 isolated from agricultural field soils of Guntur, Andhra Pradesh. *Research journal of biotechnology*, **Web of science, ugc care list, Scopus. Accepted.**