



Dr.RAJU KRISHNA CHALANNAVAR

Designation: Associate Professor

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Qualification: *Ph.D., FSSC., FSESc., Post Doc* (South Africa)

Research Field: Mycology, Plant Biotechnology, Phytochemistry, Malaria, Tissue Engineering

Number of Ph.D. candidates currently working: **09**

Number of M.Phil. candidates successfully completed: **14**

Research Publications:

Published in Journals: 33

Presented in Conferences: 33

Academic Achievements:

Post Doctoral Fellow - 2009-2010. Durban University of Technology, Durban, South Africa - Recipient of National Research Foundation (NRF) and Durban University of Technology (DUT) Fellowship.

Research Associate - 2011-2012. Durban University of Technology, Durban, South Africa - Recipient of National Research Foundation (NRF) and Durban University of Technology (DUT) Fellowship.

Visiting scientist to Department of Plant Biotechnology and Molecular Biology, Tamilnadu Agricultural University (TNAU), under South Africa - India Bilateral Collaboration 2010.

Ongoing Projects:

1. INDIA – ARGENTINA BILATERAL SCIENTIFIC & BILATERAL COOPERATION

Title of the project: *“Discovery and development of novel drug from natural products from Psidium species and their effects on malaria transmitting*

mosquitoes”

2. SERB-DST Project

Title of the project: “Discovery and development of natural product from *Psidium sp.* and their effect on malaria causing mosquito *Anopheles arabiensis*”

Papers Published:

1. Manohar Acharya and **Raju Krishna Chalannavar** (2017). Ethnomedicinal plants used by Shri. Vasu Pandit – a traditional healer of Bantawala Taluk, Karnataka. *National Interaction Meeting of Practitioners and Researchers of Traditional Systems of Medicine. KFRI, Thrissure.* 12-13 October 2017. 32-38.
2. Ravindra B Malabadi, **Raju K Chalannavar**, Supriya S, Nityasree B R, Sowmyasree K, Gangadhar S Mulugund, Neelambika T Meti. (2017). “Dengue virus disease: Current updates on the use of *Carica papaya* leaf extract as a potential herbal medicine”. *Int. J. Res. Sci. Inno*, 4 (8): 36-50. 2017. ISSN : 2321-2705 (**International**)
3. Ravindra B Malabadi, **Raju K Chalannavar**, Supriya S, Nityasree B R, Sowmyasree K, Gangadhar S Mulugund, Neelambika T Meti. (2017). Dengue Virus Disease: Recent Updates on Vaccine Development. *Int. J. Res. Sci. Inno*, 4 (7): 8-29, 2017, ISSN : 2321-2705 (**International**)
4. Ramesh S gani, Karabasangouda T, Shwetha Kumari, **Raju K Chalannavar**, Ravindra B Malabadi, Ravindra B Chougale, Saraswati Masti and Deepak Kasai.(2017). Chemo Selective Synthesis and Evaluation of Antimicrobial Activity of Novel 5-hydroxyindole Derivatives. *Der Pharmacia Sinicia*. 8 (2) 1-9 ISSN: 0976-8688
5. Ravindra B Malabadi, **Raju K Chalannavar**, Gangadhar S Mulugund, Neelambika T Meti, Sudbattula S Vijayakumar. (2016). ‘Plant Viral Expression Vectors and Agroinfiltration: A literature Review Update’, *Int. J. Res. Sci. Inno*, 3(4):32-36, April 2016, ISSN : 2321-2705 (**International**)
6. Ravindra B Malabadi, **Raju K Chalannavar**, Supriya S, Nityasree B R, Sowmyasree K, Gangadhar S Mulugund, Sudbattula S Vijayakumar, Neelambika T Meti Ramesh Gani, Anand Nasalapure, Ravindra Chougale, Saraswati Masti, Arvind Chougale, Divakar M S, Deepak Kasai, Bharati Odhav and Himansu Baijnath. (2016). ‘Ebola Virus: Updates on plant made vaccine development’, *Int. J. Res. Sci. Inno*, 3(6): 4-12, June 2016, ISSN:2321-2705 (**International**)
7. Ravindra B Malabadi, **Raju K Chalannavar**, Neelambika T Meti, Ramesh Gani, Sudbattula S Vijayakumar, Gangadhar S Mulugund, Saraswati Masti, Ravindra Chougale, Bharati Odhav, Sowmyasree K, Supriya S, Nityasree B R, Divakar M S. (2016). ‘Insulin Plant, *Costus speciosus*: Ethnobotany and Pharmacological

updates', *Int. J. Curr.Res.Biosci. Plant Bio*, 3(7):151-161, July 2016, ISSN : 2349-8080 (**International**)

8. Ravindra B Malabadi, **Raju K Chalannavar**, Neelambika T Meti, Sudbattula S Vijayakumar, Gangadhar S Mulugund, Ramesh Gani, Supriya S, Sowmyashree K, Nityasree B R, Arvind Chougale and Divakar M S. (2016). 'Antidiabetic plant, *Gymnema sylvestre* R.Br., (madhunashini):Ethnobotany, Phytochemistry and Pharmacological updates', *Int.J.Curr.Trend. Pharmacobiol.Med. Sci.* 2016. 1(4):1-17, September 2016, ISSN: 2456-2432 (**International**)
9. Deepak Kasai, Sarasvati Masti, Ramesh Gani, **Raju Chalannavar** and Ravindra Chougale. (2015). Evaluation of Multifunctionla Properties of Chitosan/Guar Gum/Vanillin for Food Packaging Applications. *Advances in Composites, Biocomposites and Nanocomposites*, Vol 2: 26-61. Conference proceedings.
10. Sheela Timmaiha, R F Banjantri, **Raju Chalannavar** and Ravindrachary V (2015). Study of Polymar Blend Based Biomaterial with Enhanced Mechanical Properties. *Advances in Composites, Biocomposites and Nanocomposites*, Vol 2: 476-488. Conference proceedings.
11. **Raju K. Chalannavar**, T Myles, H Baijnath and B Odhav. (2015). The Antimosquito properties of Essential oils from South African Plants. **Plant Sciences and Biotechnology**. Krishnan & Rodrigues (Eds). pp 91-105. ISBN:978-81-908791-4-9
12. **Raju K. Chalannavar**, Venugopala K. Narayanaswamy, Himansu Baijnath and Bharti Odhav. (2014). Chemical composition of essential oil of *Psidium guajava* white and pink fruit (Myrtaceae). *Journal Essential Oil bearing Plants*. Taylor & Francis, 17 (6):1293 – 1302.
13. **Raju K. Chalannavar**, Venugopala K. Narayanaswamy, Himansu Baijnath and Bharti Odhav (2014). Chemical composition of essential oil from the seed arils of *Strelitzia nicolai* from South Africa. *Journal Essential Oil bearing Plants*. Taylor & Francis, 17 (6):1373 – 1377.
14. Venugopala K. Narayanaswamy, **Raju K Chalannavar** Raquel M Gleiser and Bharti Odhav and (2014). Anti-mosquitoes property of 2-substitute diphenyl/benzylamino-6(4-chlorophenyl)-5-methoxycarbonyl-4- ethyl-3, 6-dihydropyrimidin-1-ium chlorides against the *Anopheles arabiensis* mosquito. *Medicinal Chemistry* 10:2 pp.211-219. IF-1.27 ISSN:1573-4064
15. **Raju K Chalannavar**, Venugopala K. Narayanaswamy, Himansu Baijnath and Bharti Odhav and Raquel M Gleiser (2013). Anti-mosquitoes properties of

extracts from flowering plants in South Africa. *Tropical Biomedicine* 30(4):559-569. IF 0.90 ISSN: 0127-5720.

16. **Raju K. Chalannavar**, Venugopala K. Narayanaswamy, Himansu Baijnath and Bharti Odhav.(2013). Chemical composition of essential oil of *Psidium cattleianum* var. *cattlieanum* (Myrtaceae). *Journal of Medicinal Plant Research*. Vol. 7(13) pp. 783-789. IF 0.58 ISSN:1996-0875
17. Venugopala K. Narayanaswamy, Manjula K, Susant K K, Bhat K S, Jayashankergouda P V, **Raju K Chalannavr**, Bharti Odhav and Raquel M Gleiser (2013). Synthesis and anti-mosquitoes property of 2,6-substituted benzo (d) thiazole and 2,4-substituted benzo (d) thiazole analogues against *Anopheles arabiensis*. *Euro Journal of Med Chem* IF-3.90 65: 295-303. ISSN · 0009-4374
18. Ravindra B. Malabadi, **Raju K. Chalannavar**, Neelambika T. Meti, Gangadhar S. Mulgund, K. Nataraja, S. Vijaya Kumar, Venugopala K. Narayanaswamy, Bharti Odhav. (2013). Detection of *Glutathione S-Transferase* gene (*GST2*, *GST3*) during induction of somatic embryogenesis in grape (*Vitis vinifera* L.). *Research in Biotechnology* 4(1): 01-11.
19. **Raju.K.Chalannavar**, Venugopala K.N, H.Baijnath & B.Odhav. (2012). Chemical constituents of essential oil *Psidium cattleianum* var.*lucidum* (Myrtaceae). *African Journal of Biotechnology* Vol. 11(33), pp. 8341-8347.
20. Ravindra B. Malabadi, **Raju K. Chalannavar**, Neelambika T.Meti, Gangadhar S. Mulgund, K. Nataraja, S. Vijaya Kumar. (2012). Synthesis of antimicrobial silver nanoparticles by callus cultures and *in vitro* derived Plants of *atharanthus roseus*. *Research in Pharmacy* 2(6): 18-31, 2012
21. **Raju.K.Chalannavar**, H.Baijnath and B.Odhav. (2011). Chemical constituents of the essential oil from *Syzygium cordatum* (Myrtaceae). *African Journal of Biotechnology* Vol. 10(14), pp. 2741-2745.
22. **Raju.K.Chalannavar**, Annapurna Agasthya Rajendra Goud & DVSSR Prakash. (2011). Purification and characterization of enzyme Alkaline phosphatase from *Bacillus subtilis*. *Asian Jr. of Microbiol. Biotech. Env. Sc.* Vol. 13 (3) 1-6.
23. Rajendra Goud, Soham Gupta, Ujjwal Neogi, Deepali Agarwal, **Raju Chalannavar** and Gaddad Subhaschandra. (2011).Community prevalence of Methicillin and Vancomycin resistant *Staphylococcus aureus* in and around Bangalore, South India. *Rev Soc Bras Med Trop* 44(3):309-312.

24. Ujjwal Neogi, Ruchi Saumya, Rashmi K Mishra and **Raju.K.Chalannavar**. (2007). Lipid Content and *in vitro* Antimicrobial Activity of Oil Seeds of Some Indian Medicinal Plants. *Current Research in Bacteriology*.1-5.
25. **Raju.K.Chalannavar**, Ujjwal Neogi, Ruchi Saumya & Rajendra Goud. (2007). Studies on Extra Cellular Enzyme Keratinase from Dermatophyte *Microsporum gypseum*. *International Journal of Biological chemistry* 1(3):174-178.
26. Annapurna. S.Agasthya and **Raju.K.Chalannavar**. (2007). Studies on prevalence of Dermatophytic Infections. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* 9: 3 pp.717-770.
27. Ch.Ramesh and **Raju K.Chalannavar**. (2007). Ecological studies of leaf litter from *Citrus aurantium*. Book on “Sustainable Environmental Management” by L.V. Gangavane and V.C.Khilare. pp.238-243.
28. **Raju K.Chalannavar** and Ch.Ramesh. (2006). Fungal Diversity on Leaf Litter. Proceedings of 8th International Mycological Congress, Cairns, Australia. Editors: Wieland Meyer & Ceri Pears. **Medimond International Proceedings**.Ref.code:20060820 ISBN:978-88-7587-276-2
29. **Raju K.Chalannavar** and Ch.Ramesh. (2006). Studies on litter fungi: Fungal colonization of *Achras sapota* and *Gliricidia maculata*. Proceedings of 8th International Mycological Congress, Cairns, Australia. Editors: Wieland Meyer & Ceri Pears. **Medimond International Proceedings**.Ref.code:20060820.ISBN:978-88-7587-276-2
30. Ch.Ramesh and **Raju K.Chalannavar**. (2000). Occurrence of microfungi of leaf litter in Dharwad. *Indian Phytopathology Golden Jubilee Proceedings*.Vol.I: 150-153.
31. Ch.Ramesh and **Raju K.Chalannavar**. (2000). Studies on litter fungi: Fungal colonization of *Achras sapota* L. and *Swietenia mahagoni* leaf litter. **Ecology of Fungi**. D.J.Bhat and S. Raghukumar (Eds.) pp.22-32.
32. Ch.Ramesh and **Raju K.Chalannavar**. (1998). Preliminary studies on decomposition of leaf litter of *Citrus aurantium* L, Comparative evaluation of different isolation techniques. *Indian Phytopathology*.Vol.51 (4): 385-386.
33. **Raju K.Chalannavar** and Ch.Ramesh. (1996). Preliminary studies on litter fungi: Fungal colonization of *Acacia melanoxylon* **R.Br.Res.Journal**.Vol.4 (2): 106-113.