KUVEMPU UNIVERSITY

Govt. of Karnataka, State Public University

Jnanasahyadri Campus, Shankaraghatta-577451, Shivamogga District, Karnataka

Supporting Documents pertaining to the following Metric:

7.3.1: Portray the performance of the Institution in one area distinctive to its priority and thrust.

- https://kuvempu.irins.org/
- https://www.webofscience.com/wos/woscc/citation-report/e658dbbb-828e-41dd-9e9f-ea41468016e6-013b222fac

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Grants Received from various Sponsoring agencies for the Distinctive Thrust Area of Research

Thrust Area: Bioprospecting Medicinal Plants

Sl. No	Project Title	Sponsoring Agency	Principal Investigator & Co-Investigators	Amount (Rs.in Lacs)	Status
	Pharmacological evaluation of Piper species of Western Ghats of Karnataka	Medicinal Plant Board of India	• Prof. B. Abdul Rahiman Dept. of Biotechnology	08.00	Completed
01	Evaluation of Antiarthritic of Bioactive property constituents of *Embelia ribes*	UGC – New Delhi	• Prof. V. Krishna Dept. of Biotechnology	9.14	Completed
02	Evaluation of anti-oxidant and gastric anti-ulcer property of *Mesua ferrea Linn.*	DBT – New Delhi	• Prof. V. Krishna Dept. of Biotechnology.	11.51	Completed
03	Proteomics and In silico Drug Designing studies on phyto-constituents hepatoprotectivity of *Flaveria trinervia* against alcohol induced liver cirrhosis.	UGC – New Delhi	• Prof. V. Krishna Dept. of Biotechnology	11.00	Completed
04	Ex-situ conservation and bioprospecting of an aromatic medicinal tree *Listea glutinosa*	UGC – BSR, New Delhi	• Prof. V. Krishna Dept. of Biotechnology	07.00	Completed
05	*Ex-situ* conservation , mass production of phytochemicals from the in vitro cultured cell lines and evaluation of anti-arthritis activity of *Delonics elata*	DST-SERB, New Delhi	• Prof. V. Krishna Dept. of Biotechnology	06.00	Completed
06	Bioprospecting of Medicinal Plants of	DBT-BUILDER	• Prof. V. Krishna (PI) • Prof. Riaz Mahmood	449.83	Completed

	Western Ghats, Karnataka	, New Delhi	(Co-PI) Dept. of Biotechnology • Prof. M. Krishnappa (Co-PI) Dept. of App. Botany • Prof. J. Narayan (Co-PI) Dept. of Env. Science • Prof. Nagaraj (Co-PI) Dept. of App. Zoology		
07	Evaluation of Anti-cancer properties of *Clerodendrum Infortunatum.* L and *Xanthium strumarium*	UGC – New Delhi	• Prof. Riaz Mahmood Dept. of Biotechnology	10.37	Completed
08	Bioprospecting Medicinal Plants	DST-FIST New Delhi	• Prof. Riaz Mahmood Co-ordinator Dept. of Biotechnology	26.00	Completed
09	Evaluation of Antiarthritic Property of the Bioactive Constituents of *Embelia ribes* Burm.	UGC – New Delhi	• Dr. H. M. Kumarswamy Dept. of Biotechnology	9.14	Completed
10	Acetogenins Modulate ATM Signalling Pathway in Nicotine Induced Chemoresistance in Pancreatic Cancer	DST-WOSA	• Dr. H. M. Kumarswamy Mentor Dept. of Biotechnology	23.70	Completed
11	Embelin can Modulate Ataxia Telangiectasia Mutated (ATM) Signalling In Nicotine Induced Chemoresistant Pancreatic Cancer	DST-SERB New Delhi	• Dr. H. M. Kumarswamy Dept. of Biotechnology	48.51	Completed
12	Design and Development of Tumor Targetted Embelin loaded Nanoparticles	VGST-Govt. of Karnataka	• Dr. H. M. Kumarswamy Dept. of Biotechnology	05.00	Completed
13	Repositioning HIF1 alpha	ICMR – New Delhi	• Dr. H. M. Kumarswamy Dept. of Biotechnology	69.00	Ongoing

	inhibitor BP-1B for DNA Damage Response (DDR) to induce BRCA ness in Cancer				
14	Evaluation of medicinal plants for Antiacne activity	Kuvempu University	• Dr. N.D. Sathyanarayan Dept. of Pharmaceutical Chemistry, Kadur P.G Centre	00.50	Completed
15	Synthesis, Bio-fictionalization and toxicology studies of magnetic and noble metal nanoparticles for bio-medical application	ICMR – New Delhi	• Dr. N.D. Sathyanarayan Dept. of Pharmaceutical Chemistry, Kadur P.G Cntre	25.00	Completed
16	Enumeration and Investigation of Medicinal Plants for Antidiabetic Activity in Western Ghats of Karnataka	UGC – New Delhi	• Prof. Yadav Bodke Dept. of Chemistry	07.07	Completed
17	Phyto-chemical investigation and anticancer activity of some Potential medicinal plants in Western Ghats of Karnataka	UGC – New Delhi	• Prof. Mahadevan K. M Dept. of Chemistry	05.00	Completed
18	Bioprospecting of Phytochemicals from Medicinal Plants Located in Western Ghats to Control Mucormycosis	DST-SERB-New Delhi	• Prof. B. Thippwswamy Dept. of Microbiology	29.61	Completed
19	People's Biodiversity Register on Chickmagalore District.	Karnataka Biodiversity Board, Govt. of Karntaka, Bangalore	• Prof. B. Thippwswamy Dept. of Microbiology	53.00	Completed
20	Biodiversity of Mosses in Bhadra Wild Life Sanctuary, Karnataka	UGC-New Delhi	• Prof. M. Krishnappa • Prof. Y.L. Krishnamurthy Dept. of App. Botany	56.00	
21	Study on floral	Ministry	• Prof. M. Krishnappa	90.00	

	diversity of Bhadra Wild Life Sanctuary, Karnataka	of Forests & Environment GoI	• Prof. Y.L. Krishnamurthy Dept. of App. Botany		
22	Diseases of certain medicinal herbs in Bhadra Wildlife Sanctuary Karnataka	DST – New Delhi	• Prof. M. B. Shivanna Dept. of App. Botany	12.39	
23	Diversity and molecular phylogeny of follicolous Lichens of Western Ghats ,India	DST – New Delhi	• Prof. Y.L. Krishnamurthy Dept. of App. Botany	36.00	
24	Floristic diversity of Bhadra Wild life Sanctuary, Karnataka	Ministry of Forests & Environment GoI	• Prof. Y.L. Krishnamurthy Dept. of App. Botany	06.00	
25	Study on phytochemical and antimicrobial properties of wild mushrooms of Western Ghats region of Karnataka	UGC- New Delhi	• Prof. Raja Naika Dept. of App. Botany	08.69	
26	Nutritional, Nutraceutical and Cytotoxic Studies on Unexplored and Underutilized Wild Mushrooms of Western Ghats, Karnataka	DST- New Delhi	• Prof. Raja Naika Dept. of App. Botany	21.95	
27	Investigation of anti-cancerous compound s *Plumbago zeylanica* Linn Grown in western Ghats, Karnataka	Kuvempu University	• Dr. Shrishail Dept. of App. Botany	02.00	
28	Investigations of Metal ions Present in Medicinal plants used for Anti diabetic activity by using Stripping Voltammetry	UGC Minor	• Dr.B.E.Kumara Swamy	00.38	
Total Rs.				**1047.34**	

Total Rs. One Thousand Forty Seven Lakhs

List of Research Publications on the Distinctive Thrust Area – Bioprospecting Medicinal Plants

1. Ismail, S. A. A. N., Mahmood, R., & Rahman, H. (2023). Evaluation of the anti-inflammatory potential of Solanum pubescens fruit extract. Biomedicine, 43(02), 674-683.

2. Mamukan Boruah and Riaz Mahmood (2023). Evaluation of in vitro antioxidant and cytotoxic activities of endophytic fungi isolated from the medicinal plant Madhucanerifolia. Indian J. Applied & Pure Bio, 38(2), 928-936.

3. Mamukan Boruah and Riaz Mahmood (2022). Taxonomy, Phylogeny, and Seasonal Variation of Endophytic Fungi Isolated from the Traditional Medicinal Plant Madhucanerifolia from the South West of Western Ghats of Karnataka, India. J. Mycopathol. Res., 60(3), 401-411.

4. Moodbagil C. I, Mahmood R, Jain R, Meghana P, Prashanth N, Kumarswamy H. M, and Sharath R (2022). Docking-based screening of potent flavonoids as CHK2 inhibitors from genus Miliusa. Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, 1-6.

5. Ravishankara B, Riaz Mahmood, V Krishna, Vinay Kumar NM, Sudhesh L Shastri (2021). Hepatoprotective activity and molecular docking studies of Chloroxylon swietenia DC. fruit extract phytocompounds. International Journal of Pharmaceutical Research, 13(2), 2704-2717.

6. Ravishankara B, Riaz Mahmood, V Krishna, Vinay Kumar NM, Ajith S (2021). Inflammation-mediated wound healing efficacy of Chloroxylon swietenia DC. fruit phytocompounds. International Journal of Pharmaceutical Research, 13(2), 1258-1268.

7. Ravishankara B, Riaz Mahmood, V Krishna, Vinay Kumar NM, Ajith S (2021). Analgesic and Anti-inflammatory activity of fruit extract phytocompounds of Chloroxylon swietenia DC. International Journal of Botany Studies, 6(2), 152-157.

8. Vinay Kumar NM, Riaz Mahmood, Krishna V, Ravishankara B, Ravi Kumar S, Sachin S Nayaka. (2021). In vitro evaluation of antibacterial and molecular docking studies of Gardenia gummifera fruit methanol extract. International Journal of Botany Studies, 6(3), 321-325.

9. Vinaykumar, NM Riaz Mahmood, V Krishna, B Ravishnakara, S Ajith (2021). In vitro Anti-inflammatory and In vivo Wound Healing Activity of Gardenia gummifera L.F Fruit and Stem Bark Methanol Extracts in Rats. International Journal of Pharmaceutical Research, 13(1), 3124-3130.

10. Rizwana Abid, and Riaz Mahmood (2018). Acute and sub-acute oral toxicity of ethanol extract of Cassia fistula fruit in male rats. Avicenna Journal of Phytomedicine, Vol. 7(2), 1-9.

11. Vikas H. Malojirao, V. Vigneshwaran, Prabhu Thirusnagu, Riaz Mahmood and B.T. Prabhakar (2018). The tumor antagonistic steroidal alkaloid Solanidine promotes the intrinsic suicidal signal mediated DFF-40 nuclear import and nucleosomal disruption. Life Sciences, Vol. 3(5), 79-90. doi: 10.1016/j.lfs.2018.03.015.

12. Ellango R, R. Asokan, G. Sharath Chandra, N. K. Krishna Kumar, Riaz Mahmood and V. V. Ramamurthy. (2018). Tyrosine Hydroxylase, a Potential Target for the RNAi-Mediated Management of Diamondback Moth (Lepidoptera: Plutellidae). Florida Entomologist, 101(1):1-5. doi.org/10.1653/024.101.0102.

13. Ravishankar B, Riaz Mahmood, V Krishna, Vinay Kumar NM, Sudhesh L Shastri (2017). Phytochemical Screening and Antibacterial Activity of Chloroxylon swietenia DC. Int J Pharma Res Health Sci., 5(6): 2002-07; DOI: 10.21276/ijprhs.2017.06.20.

14. Aditya Rao S.J., C.K. Ramesh, Riaz Mahmood, Jamuna K.S., and Prabhakar B.T (2015). Anti Tumor Activity of Two Species of Mulberry against EAT Cell Lines in Mice. World Journal of Pharmaceutical Research, Vol. 4, Issue 3, 1934-1943.

15. Mir Haris, Riaz Mahmood, Haseebur Rahman, Nazneen and Bilal Rah (2015). Inhibition of Wound Closure and Decreased Colony Formation by Clerodendrum infortunatum L. in Lung Cancer Cell Line; International Journal of Current Research in Biosciences and Plant Biology, Vol 2 (9): 66-73.

16. Mir Haris, Riaz Mahmood, Haseebur Rahman, Nazneen (2016). In vitro Cytotoxic Activity of Clerodendrum infortunatum against T47D, PC-3, A549 and HCT-116 Human Cancer Cell Lines and its Phytochemical Screening; International Journal of Pharmacy and Pharmaceutical Sciences, 8(1), 439-444.

17. Prabhu Thirusangu, V. Vigneshwaran, T. Prashanth, B.R. Vijay Avin, Vikas H. Malojirao, H. Rakesh, Shaukath Ara Khanum, Riaz Mahmood and B.T. Prabhakar (2016). BP-1T an antiangiogenic benzophenone-thiazole pharmacophore, counteracts HIF-1 signalling through p53/MDM2-mediated HIF-1α proteasomal degradation. Angiogenesis, DOI 10.1007/s10456-016-9528-3.

18. Rizwana Abid, Riaz Mahmood and Santhosh Kumar HulikaShivashankara (2016). Hypolipidemic and antioxidant effects of ethanol extract of Cassia fistula fruit in hyperlipidemic mice. Pharmaceutical Biology.

19. Jamuna K.S., Suma M.S., Ramesh C.K, Riaz Mahmood, Prabhakar B.T. (2016). Evaluation on lipid peroxidation and antiproliferative activities of Raphanus sativus L. International Journal of Research and Development in Pharmacy and Life Sciences, 5, 6: 2405-2409.
20. Kavitha G. C., Riaz Mahmood and Pallavi M. (2017). Estimation of total phenolics, flavonoid and In vitro antioxidant activity of ChrozophoraRottleri. European Journal of Biomedical and Pharmaceutical Sciences, 4(9), 12-18.

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23. Jamuna K.S., Suma M.S., Ramesh C.K., Riaz Mahmood and Nanjundaswamy L (2017). Studies on in vitro antiproliferative activities in Cruciferae vegetables. Journal of Applied Horticulture.

24. Vikas H. Malojirao, V. Vigneshwaran, Prabhu Thirusnagu, Riaz Mahmood and B.T. Prabhakar. (2018). The tumor antagonistic steroidal alkaloid Solanidine promotes the intrinsic suicidal signal mediated DFF-40 nuclear import and nucleosomal disruption. Life Sciences, Vol. 3(5), 79-90. doi: 10.1016/j.lfs.2018.03.015.

25. Sameera Parveen, Ramesh C.K., Riaz Mahmood, and Pallavi M. (2018). Folklore medicinal Orchids from South India: the potential source of antioxidants. Asian Journal of Chemical and Pharmaceutical Sciences, 11(06), 194-198. ISSN-2454-6348.

26. Malojirao VH, Mahmood R, and Prabhakar BT (2017). Free radical scavenger Solanidine modulates cell proliferation in murine solid lymphoma model by activating Bax and Bad to induce tumor regression. International Journal of Scientific Research and Reviews, Mar. 7(1), 406–416. ISSN: 2279–0543.

27. Sameera Parveen, Ramesh C.K, Riaz Mahmood and Pallavi M (2018). Anti-Inflammatory and Antinociceptive Activity of Some Orchids. Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences, 4(4), 502-515. ISSN-2454-6348.

28. Vikas H. Malojirao., Riaz Mahmood., B.T. Prabhakar (2018). Radical Scavenger Solanidine Modulates Cell Proliferation in Murine Solid Lymphoma Model by Activating Bax and Bad to Induce Tumor Regression. 7(1).

29. Vinay Kumar NM, Riaz Mahmood, Krishna V, Ravishankara B, Shastri SL. (2020). Antioxidant and in vivo hepatoprotective effects of Gardenia gummifera L. fruit methanol extract. Clinical Phytoscience, 6.

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32. Sharat Kumar Pattar, Riaz Mahmood, Sushil Kumar Jalali, Santosh Karanth, Siri Devi and Asma Saqib (2020). Activity of Metabolic Enzymes towards Exhibiting Insecticide Resistance in Lepidopteran Insect Pest: An In-Vitro and In-Silico Study. Plant Archives, 20(2), 1360-1366. e-ISSN: 2581-6063 (online), ISSN: 0972-5210.

33. Ravishankara B, Riaz Mahmood, V Krishna, Vinay Kumar NM, Sudhesh L. Shastri (2021). Hepatoprotective activity and molecular docking studies of Chloroxylon swietenia DC. fruit extract phytocompounds. International Journal of Pharmaceutical Research, 13(2), 2704-2717.

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36. Mir Haris, Riaz Mahmood, Gouthamchandra K., Haseebur Rahman and Nazneen. (2013). Phytochemical screening and Characterization of a Bioactive Compound with DPPH Radical Scavenging Property in Clerodendrum infortunatum L., Kuvempu University Science Journal, Vol. 7. ISSN: 2277-9523; p. 97-109.

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39. Kumar, E. V., Harini, R., Bhuvaneshwari, H. S., Sushma, P. M., Sushmitha, D. S., Kumara Swamy, B. E., Anitha, G., & Nagaraju, G. (2024). Facile green synthesis of Zn doped MoO_3 nanoparticles and its photocatalytic and photoluminescence studies. Journal of Molecular Structure, 1312, 138494.

40. Kumar, E. V., Soundarya, T. L., Kumara Swamy, B. E., Anitha, G., & Nagaraju, G. (2024). Butea monosperma-aided green synthesis of α-MoO_3 nanoparticles: Biosensing and photocatalytic activity towards hazardous dyes and rangoli colorants. Environmental Nanotechnology, Monitoring & Management, 21, 100930.

41. Naik, M. C., Kini, J. H., Kumara Swamy, B. E., & Velho-Pereira, S. (2024). Sensor and antibacterial research of Mussaenda frondose leaf extract-assisted zinc oxide nanoparticles. Sensing Technology, 2, 2385839.

42. Shashanka, R., & Kumara Swamy, B. E. (2020). Biosynthesis of silver nanoparticles using leaves of Acacia melanoxylon and their application as dopamine and hydrogen peroxide sensors. Physical Chemistry Research, 8(1), 1–18.

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45. Shashanka, R., Jayaprakash, G. K., Prakashaiah, B. G., Mohan Kumar, & Kumara Swamy, B. E. (2022). Electrocatalytic determination of ascorbic acid using a green-synthesized magnetite nano-flake modified carbon paste electrode by cyclic voltammetric method. Materials Research Innovations. https://doi.org/10.1080/14328917.2021.1945795

46. Vedavi, L., Rahman, A., Rajaput, P. S., Nippu, B. N., Prashanth, N., Kumaraswamy, H. M., & Satyanarayan, N. D. (2024). Design and synthesis of new nicotinamide derivatives generated via Suzuki Miyaura coupling as potential anticancer hits targeting pancreatic cancer cell line MIA PaCa-2. Journal of Molecular Structure, 139244.

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and its bioactive fraction through upregulation of p53/γH2AX signals and G2/M phase arrest in MIA PaCa-2 cells. Anti-Cancer Agents in Medicinal Chemistry, 22(17), 2998–3008.

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