

## Curriculum Vitae



### 1. Personal information

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|----|------------------------------|--|
| 01 | Name Designation and Address | Dr. Kumaraswamy H.M.,<br>Associate Professor,<br>Dept. Of Biotechnology and Bioinformatics<br>Kuvempu University,<br>Shankaraghatta-577451.  |
| 02 | Contact Number and E-mail    | +91 9482478923, 08282-256343<br><a href="mailto:drkumarhm@gmail.com">drkumarhm@gmail.com</a><br><a href="mailto:drhmklab@gmail.com">drhmklab@gmail.com</a><br><a href="mailto:hmk@kuvempu.ac.in">hmk@kuvempu.ac.in</a> |
| 03 | Date of Birth                | 01-06-1978   |
| 04 | Gender and Marital status    | Male Married   |
| 05 | Nationality                  | Indian   |

### 2. Educational Qualifications

| Sl. No | Name of the Degree    | University/ Institution   | Month and Year of Degree Awarded | Area of Research   |
|--------|-----------------------|---------------------------|----------------------------------|--|
| 01     | Post Doc              | Vanderbilt University-USA | 2013                             | Cancer Biology   |
| 02     | Ph.D                  | Kuvempu University        | 28 June 2008                     | <b>Topic:</b> Evaluation of Somaclonal variation, Phytochemical Constituents and Pharmacological activities of <i>in vitro</i> regenerants of <i>Embelia ribes</i> Burm. Phytochemistry, Pharmacology. |
| 03     | Post Graduate Degree  | Kuvempu University        | May 2004                         | <b>Specialization:</b> Biotechnology   |
| 04     | Under Graduate Degree | Kuvempu University        | May 2002                         | Chemistry, Botany and Zoology  |

### 3. Teaching Experience

| Sl. No | Designation         | University/ Institution                       | Period             |
|--------|---------------------|---|--------------------|
| 01     | Assistant Professor | Dept. Of Biotechnology,<br>Kuvempu University | 2021               |
| 02     | Associate Professor | Dept. Of Biotechnology,<br>Kuvempu University | 2021- till to date |

### 4. Academic Programs Taught: MSc., Biotechnology & Bioinformatics

**Subject taught with specialization:** Plant Biotechnology, Genetic Engineering, Industrial Biotechnology, Bio-chemistry, Phytochemistry, Biochemical techniques, Pharmacology, Cell biology.

### 5. Research Guidance

- ✓ PhD completed: 1
- ✓ Currently guiding: 5 PhD students
- ✓ Co guide: 4 PhD students
- ✓ Guided 36 MSc., Student Projects

### 6. Research Projects

| Sl. No | Investigator/Co-investigator | Title of the Project   | Funding Agency | Amount in Indian Rupees (INR) | Man Power appointed/Trained | Duration and Status (Ongoing/Completed) |
|--------|------------------------------|--|----------------|-------------------------------|-----------------------------|---|
| 01     | Principal Investigator       | Evaluation of Antiarthritic Property of the Bioactive Constituents of <i>Embelia ribes</i> Burm.     | UGC            | 9,14,300                      | One project fellow          | 03 years, Completed                     |
| 02     | Mentor                       | Acetogenins Modulate ATM Signalling Pathway in Nicotine Induced Chemoresistance in Pancreatic Cancer | DST-WOSA       | 23,70,000                     | One Women Scientist         | 03 years, Ongoing                       |
| 03     | Principal Investigator       | Embelin Can Modulate Ataxia-   | DST-SERB       | 48,51,600                     | One project Assistant       | completed                               |

|    |                        |  |      |           |                       |            |
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|    |                        | Telangiectasia Mutated (ATM) Signalling In Nicotine Induced Chemoresistant Pancreatic Cancer           |      |           |                       |            |
| 04 | Principal Investigator | Design and Development of Tumor Targetted Embelin loaded Nanoparticles                                 | VGST | 5,00,000  |                       | Completed  |
| 05 | Co- Investigator       | 'Repositioning HIF1 alpha inhibitor BP-1B for DNA Damage Response (DDR) to induce BRCA ness in Cancer' | ICMR | 69,00,000 | One project Assistant | 2022- 2025 |

## 7. Research Papers Published in National and International Journals

1. 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.
2. Navaneethgowda, P. V., Bodke, Y. D., Manjunatha, B., Kumaraswamy, H. M., & Meghana, P. (2023). Novel 1, 3-Indenedione-Based Azo Dyes: Synthesis, Characterization, Solvatochromic UV-Vis Absorption Study, and Biological Activity. *Russian Journal of General Chemistry*, 93(Suppl 4), S876-S884.
3. Prashanth, N., et al. "Nicotine promotes epithelial to mesenchymal transition and gemcitabine resistance via hENT1/RRM1 signalling in pancreatic cancer and chemosensitizing effects of Embelin-a naturally occurring benzoquinone." **Science of The Total Environment** (2023): 169727.
4. Rahman, A., Jain, R. S. K., Meghana, P., Nippu, B. N., Manjunatha, K. S., Rajaput, P. S., ..., H. M. Kumaraswamy & Satyanarayan, N. D., (2023). Tetrahydrobenzothiophene derivatives

ameliorate Mia PaCa-2 cell progression and induces apoptosis via inhibiting EGFR2 tyrosine kinase signal. *Bioorganic Chemistry*, 106968.

5. B. N. Nippu, **H.M. Kumaraswamy**, N.D. Satyanarayan (2023). Exploration of Heterocyclic Molecules Inhibiting Angiogenesis Via VEGF Pathway Targeting VEGFR-2: An *In Silico* Approach, *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*: 1-12.
6. Jain, R. S. K., Meghana, P., Prashanth, N., Kumar, J. S., Satyanarayan, N. D., Sharath, R., ... & **Kumaraswamy, H. M.** (2023). Phenolic fingerprint, proximate analysis and nutraceutical effects of *Garcinia talbotii*, an under-utilized functional food endemic to Western Ghats. *Food Bioscience*, 102894.
7. C Inchara Moodbagil, Riaz Mahmood, HM Kumaraswamy, Vivek Chandramohan, Manjunath Dammali, R Sharath, P Meghana, R Sandeep Kumar Jain, N Prashanth, JR Samartha. (2023). Identification of potential inhibitors of ATM kinase: pharmacoinformatics and molecular dynamics simulation approach. *Molecular Simulation*, 1-9.
8. Nippu B N, Abdul Rahman, Sandeep Kumar Jain R, Manjunatha K S, **H M Kumaraswamy**, K M Mahadevan, N D Satyanarayan. (2023) Design, Synthesis and Anticancer Screening of Cu-Catalyzed SnAr Substituted Pyridine Bridged Ring Systems. *Journal of Molecular Structure*, 1277: 134829.
9. Meghana P, Sandeep Kumar Jain R, Prashanth N, Santos Kumar J U, Sharath R, Satyanarayan N D, Rajesh R, Inchara Moodbagil C & Kumaraswamy H M. (2022). *Artabotrys odoratissimus* Bark Extract Restores Ethanol Induced Redox Imbalance and Toxicity in Hepatocytes and In Vivo Model. *Applied Biochemistry and Biotechnology*, 195(5), 3366-3383.
10. A. Rahman, N.B. Ningegowda, M.K. Siddappa, M. Pargi, H.M. Kumaraswamy, N.D. Satyanarayan, R. Achur. (2022). Synthesis of Palladium- Catalysed C–C Bond Forming 5-Chloro Quinolines via Suzuki- Miyaura Coupling; Anti- Pancreatic Cancer Screening on PANC- 1 Cell Lines. *Chemistry & Biodiversity*. 2.9
11. Abdul Rahman, Prashanth N, Nippu B N, **H M Kumaraswamy**, A N Rajeshwara, N D Satyanarayan. (2022). Synthesis and anticancer screening of some novel Pd-catalysed 3-methyl indole based analogues on MIA PaCa-2 cell line. *Journal of Molecular Structure*, 1264:133211. 3.8
12. Nippu B N, Sandeep Kumar Jain R, Abdul Rahman, **H M Kumaraswamy**, N D Satyanarayan. (2022). Design and synthesis of novel tetrazolo quinolone bridged isatin derivatives as potential anticancer leads against MIA PaCa-2 human pancreatic cancer cell line. *Journal of Molecular Structure*, 1263:133103 3.8

13. Moodbagil, C. I., Mahmood, R., Jain, R., Meghana, P., Prashanth, N., **Kumaraswamy, H. M.**, & 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.
14. Pargi, M., Jain Raviraj, S. K., Narayanappa, P., Urumarudappa, S. K. J., Malleshappa, P., & Malleshappa, K. H. (2022). Antiproliferative Effects of *Artabotrys odoratissimus* Fruit Extract and its Bioactive Fraction through Upregulation of p53/ $\gamma$ H2AX Signals and G2/M Phase Arrest in MIA PaCa-2 Cells. *Anti-cancer agents in medicinal chemistry*, 22(17), 2998–3008. 2.8
15. Roy, R. D., Kandagalla, S., Krishnappa, V., Abid, R., **Honnenahally, K. M.**, & Krishnappa, M. (2022). Novel Insights into the Bioactive Metabolites of *Macrocybe gigantea* (Agaricomycetes), Using Gas Chromatography-Mass Spectrometry Combined with Chemoinformatic Approaches. *International Journal of Medicinal Mushrooms*, 24(3). 1.2
16. Manjunatha, Yadav D. Bodke, **H.M. Kumaraswamy**, K.M. Mussuvir Pasha, N. Prashanth, Priya R. Kadam. (2022). Synthesis, computational, hepatoprotective, antituberculosis, molecular docking studies of some coumarin derivatives. *Journal of Molecular Structure*, 1254:132410. 2.8
17. **Kumaraswamy, H. M.**, Krishna, V., Sharath, R., Satyanarayan, N. D., Meghana, P., Jain, R., Prashanth, N., & Raja Naika, H. (2022). Potential role of embelin in the prevention of Freund's adjuvant induced inflammation and ROS. *3 Biotech*, 12(1), 10. 1.3
18. Ereshanaik, M.C. Prabhakara, H.S. Bhojya Naik, B.R. Kirthan, **H.M. Kumaraswamy**, R. Sandeep Kumar Jain. (2022). DNA interaction studies of Cu(II), Co(II), and Ni(II) chelates derived from schiff base ligand. *Journal of the Indian Chemical Society*, 99(1):100288. 1.3
19. Manjunatha, Yadav D. Bodke, **H.M. Kumaraswamy**, P. Meghana, O. Nagaraja, G.C. Anjan kumar. (2022). Novel thioether linked 4-hydroxycoumarin derivatives: Synthesis, characterization, in vitro pharmacological investigation and molecular docking studies. *Journal of Molecular Structure*, 1249(4):131642. 3.8
20. H. Muktha, R. Sharath, Nagaraju Kottam, **H.M. Kumaraswamy**, S. Srinath. (2021). Carbon dots- A study of its cytotoxicity activity against HepG2 and MCF-7 cell lines. *Materials Today: Proceedings*, 48(3):608-612.
21. Lingaraju, K., Basavaraj, R. B., Jayanna, K., Bhavana, S., Devaraja, S., **Swamy, H. K.**, & Naika, H. R. (2021). Biocompatible fabrication of TiO<sub>2</sub> nanoparticles: Antimicrobial, anticoagulant, antiplatelet, direct hemolytic and cytotoxicity properties. *Inorganic Chemistry Communications*, 127, 108505.

22. Meghana P, Sandeep Kumar Jain R, Prashanth N & **Kumaraswamy H M.** (2020). Phytochemical profiling and screening of protective effects of *Artabotrys odoratissimus* on H<sub>2</sub>O<sub>2</sub> induced oxidative stress in HEK-293 cells and erythrocytes. *Botany Letters*, 167:4, 471-484
23. P. Meghana, Jain R. Sandeep Kumar, Telkar Sandeep, N. Prashanth, **H.M. Kumaraswamy.** (2019). Acetogenins as potential checkpoint-2 kinase inhibitors: an *in silico* analysis. *Journal of Proteins and Proteomics*, 10:299-311.
24. Supriya Srinivasan, Tulasigeri Totiger, Chanjuan Shi, Jason Castellanos, Purushottam Lamichhane, Austin Dosch, Fanuel Messaggio, Nilesh Kashikar, **Kumaraswamy Honnenahally**, Yuguang Ban, Nipun Merchant, Michael VanSaun, and Nagaraj Nagathihalli. (2018). Tobacco Carcinogen-Induced GM-CSF Production Activates CREB to Promote Pancreatic Cancer. *Cancer Research*, 78(21), 6146–58
25. Arunodaya Hosahalli Sumithregowda, Krishna Venkatarangaiah, **Kumaraswamy Honnenahally**, Vinaykumar Nagenahalli Manjunath. (2017). Cytotoxicity and Oral Acute Toxicity Studies of *Litsea glutinosa* C. B (ROB) Stem Bark Ethanol Extract. *Pharmacognosy Journal*, 9(6):880-886.
26. Supriya Srinivasan, Venkatakrishna Jala, **Kumaraswamy Honnenahally**, Jason Castellanos, Praveen Kumar. (2017). Urolithin A prevents pancreatic tumor growth and increases survival by inhibiting PI3K/PDK1 and STAT3 signaling. AACR; *Cancer Research*, 77(13 Suppl):5259-5259 (conference Paper).
27. Jason Castellanos, Supriya Srinivasan, **Kumaraswamy Honnenahally**, Chanjuan Shi, Michael N Vansaun, David Robbins, Nipun B Merchant, Nagaraj Nagathihalli.(2016). Oncogenic mutant KRAS modulates CREB activation through MEK-ERK and AKT signaling in pancreatic cancer. AACR; *Cancer Research*, 76: 2618-2618(conference Paper).
28. Jason Castellanos, **Kumaraswamy Honnenahally**, Chanjuan Shi, Nipun Merchant, Nagaraj Nagathihalli. (2015). GM-CSF induces CREB signaling pathways and modulates tobacco carcinogen-induced pancreatic tumorigenesis. AACR; *Cancer Research*, 75(15 Suppl): 924-924(conference Paper). 11.2
29. **Kumaraswamy Honnenahally**, Chanjuan Shi, Xi Chen, Jason Castellanos, Nipun Merchant, Timothy Blackwell, Nagaraj Nagathihalli. (2015). Abstract A33:  $\gamma$ H2AX: A molecular marker of DNA damage response in smoking-induced pancreatic ductal adenocarcinoma. AACR; *Cancer Research*, 75(13 Suppl):A33-A33 (conference Paper). 11.2
30. Mahadevappa Paramesha, Chapeyil Kumaran Ramesh, Venkatarangaiah Krishna, H. Malleshappa Kumar Swamy, S. J. Aditya Rao. (2015). Effect of dehydroabietylamine in

angiogenesis and GSK3- $\beta$  inhibition during wound healing activity in rats. *Medicinal Chemistry Research*, 24(1): 295. 2.6

31. N. Nagathihalli, **K. Honnenahally**, H. Tanjore , F. Revetta , X. Chen ,J. Castellanos , C. Shi , N. Merchant. (2014). Smoking-Induced DNA Damage Results in ATM-Dependent Phosphorylation of Histone H2AX in Pancreatic Cancer. *Pancreas*, 43(8):1394-1394 (conference Paper).
32. Khadeer B. M. Ahamed Harish Basavanthappa Gowdru, Sharath Rajashekarappa **Kumar Swamy H. Malleshappa** Venkatarangaiah Krishna, (2013). Molecular docking of glycogen synthase kinase3- $\beta$  inhibitor oleanolic acid and its wound-healing activity in rats. *Medicinal Chemistry Research*, 22(1), 156-164.
33. Harish B. Gowdru, Shrath Rajashekarappa, **Kumara Swamy H. Malleshappa**, Katenahally R. Maruthi, Venkatarangaiah Krishna. (2011). In Vitro Regeneration of Inflorescence and Callus Enhancement of *Celastrus paniculatus* Willd. *Medicinal and Aromatic Plant Science Biotechnology*, 5(2): 147-151.
34. R. Sharath, B.G. Harish, V. Krishna, B.N. Sathyanarayana and **H.M. Kumara Swamy** (2010). Wound healing and protease inhibition activity of Bacoside- A, isolated from *Bacopa monnieri* wettest. *Phytotherapy Research*, 24: 1217-1222.
35. B.G. Harish., V. Krishna., H.S. Santhosh Kumar, B.M. Khdeer Ahamed, R. Sharath, **H.M Kumaraswamy**. (2008). Wound healing activity and docking of glycogen-synthase-kinase-3- $\beta$ -protein with isolated 7enzodiazepin lupeol in rats. *Phytomedicine* 15, 763–767.
36. Prabhakara, M. C., Naik, H. S. Bhojya, Krishna, V. and **Kumaraswamy, H. M.** (2007). Binding and oxidative cleavage studies of DNA by mixed ligand Co (III) and Ni (II) complexes of quinolo [3, 2-b] 7enzodiazepine and 1, 10-phenanthroline. *Nucleosides, Nucleotides and Nucleic Acids*, 26:5, 459 – 471.
37. **Kumaraswamy H.M.**, Krishna,V., Shankarmurthy,K., Abdul Rahiman,B, Mankani, K.L., Mahadevan,K.M., Harish,B.G.,and Raja Naika,H (2007). Wound healing activity of embelin isolated from the ethanol extract of leaves of *Embelia ribes* Burm. *Journal of Ethnopharmacology*. 109: 529-534.
38. Rajnaika H, Krishna .V, Vardaraj. N and **Kumaraswamy H.M** (2007). Micropropagation and Evaluation of Genetic variability among in Vitro regenerants of *Nervalia zeylanica* (L.) DC. *Medicinal and Aromatic Plant Science Biotechnology*, 1(1)112-117.
39. Harish B. G, Krishna,V. Sharath R, **H.M. Kumara swamy**, Raja naika H., Mahadevan K. M. (2007). Antibacterial activity of celapanin, a sesquiterpene isolated from the leaves of *Celastrus paniculatus* Willd. *Int. J. Bio Med. Pharma. Sci*, 1(1):65-68.

40. B.M. Khadeer Ahamed, V. Krishna., Harish B.Gowdru., H. Raja Naika, **H.M. Kumaraswamy**, R. Sharath, J. D. Chethan, K.M. Mahadevan. (2007). Isolation of bacterial constituents from the stem bark extract of *Grewia tiliaefolia* Vahl. *Research journal of Medicinal Plants*, 1(3):72-82.

### 8. Book Chapters:

1. Pallavi Sulakiya, S. Chandan, C.P. Bhargavi, S. Bhavana, T. Dennis Thomas, H. Prabhavathi, **H.M. Kumaraswamy**, N. Prashanth, S. Pooja Rajaput, R.L. Babu and H. Raja Naika (2024). Advancements in clinical decision support through deep learning approaches in genetic diagnostics. *Deep Learning Applications in Translational Bioinformatics* (Vol. 15; Chapter7). Elsevier.
2. C.P. Bhargavi, S. Chandan, S. Bhavana, **H.M. Kumaraswamy**, R. Sandeep Kumar Jain, R.L. Babu and H. Raja Naika (2024). Neural architectures for genomic understanding: Deep dive into epigenome and chromatin structure. *Deep Learning Applications in Translational Bioinformatics* (Vol. 15; Chapter8). Elsevier
3. S. Chandan, C.P. Bhargavi, S. Bhavana, K.R. Dasegowda, **H.M. Kumaraswamy**, P. Meghana, R.L. Babu and H. Raja Naika. Integrating computational biology and multiomics data for precision medicine in personalized cancer treatment. *Deep Learning Applications in Translational Bioinformatics* (Vol. 15; Chapter14). Elsevier.

### 9. Workshop attended:

- Integrated OMICS III (Genomics, Proteomics and Bioinformatics) at NCBS, TIFR Bangalore from 19<sup>th</sup> – 23<sup>rd</sup> Sep 2022.

### 10. Conferences, Seminars etc., Attended and Papers presented

| Sl. No | Seminar/Conference       | Date | Title of the Paper Presented   | Remarks             |
|--------|--------------------------|------|--|---------------------|
| 01     | Conference               | 2006 | Evaluation of hepatoprotective activity of embelin isolated from <i>Embelia ribes</i> Burm.                    | Poster presentation |
| 02     | Seminar                  | 2006 | Intellectual Property Rights'  | Poster presentation |
| 03     | National Seminar         | 2006 | on Biochemistry, Biotechnology and Nanotechnology-21 <sup>st</sup> Century                                     | Poster presentation |
| 04     | International Conference | 2007 | Evaluation of Antimutagenic activity of embelin an active constituent isolated from <i>Embelia ribes</i> Burm. | Poster presentation |
| 05     | National Conference      | 2007 | Evaluation of Antioxidant activity of embelin an active constituent isolated from <i>Embelia ribes</i> Burm.   | Poster presentation |



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| 06 | International symposium  | 2009   | Screening of Somoclonal variation by using RAPD marker among in vitro regenerants of <i>Embelia ribes</i> Burm.                         | Poster presentation  |
| 07 | State level conference Mesmerizing Fields of Biotechnology   | 8 <sup>th</sup> & 9 <sup>th</sup> April 2011 | Plantlet regeneration from anther callus of <i>Embelia ribes</i> Burm.  | Oral presentation  |
| 08 | State level conference Dissecting the complexities of plant Biotechnology in the Post genomic era. | 21 Sep 2011                                  | Isolation and Characterization of Embelin a benzoquinone from seeds of <i>Embelia ribes</i> Burm.                                       | Poster presentation  |
| 09 | International conference-AACR-NEW ORELANCE-USA   | May 18-21, 2014                              | Gamma H2AX a molecular marker for smoking induced pancreatic ductal adeno carcinoma.  | Poster presentation  |
| 10 | International conference-APA-HAWAII-USA  | Nov 5-8, 2014                                | Smoking induced DNA damage results in ATM dependent phosphorylation of Histone H2AX in pancreatic cancer.                               | Oral-Young Investigator Award from American Pancreatic Association |
| 11 | 28 <sup>th</sup> All India Congress of Zoology & International symposium-Davangere                 | Oct 20-22, 2016                              | Xanthones as potential human vascular endothelial growth factor receptor 2 (kdr) kinase domain inhibitors: An <i>in silico</i> analysis | Poster presentation  |
| 12 | 28 <sup>th</sup> All India Congress of Zoology & International symposium-Davangere                 | Oct 20-22, 2016                              | Alkaloids from <i>Artbotyrs</i> Species as potential Chk2 kinase inhibitors: An <i>in silico</i> analysis                               | Poster presentation  |
| 13 | National seminar on Frontier Research in Diversity and Taxonomy of Medicinal Plants                | Nov 4-5, 2016                                | Phytochemical investigation of <i>Garcinia talbotii</i> . Raizada, an endemic plant of the western ghats.                               | Poster presentation  |
| 14 | National seminar on Frontier Research in Diversity and Taxonomy of                                 | Nov 4-5, 2016                                | Acetogenins as potential checkpoint-2 kinase inhibitors: An <i>in silico</i> analysis   | Poster presentation  |

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|    | Medicinal Plants  |              |  |                     |
| 15 | International Symposium on “Developing Drugs for Tomorrow (Challenges and Opportunities) – AIMM, Karnataka. | Jan 1-3 2018 | In vitro Protective Effects of <i>Garcinia talbotii</i> . Raizada Extracts on Induced Oxidative Damage.            | Poster presentation |
| 16 | International Symposium on “Developing Drugs for Tomorrow (Challenges and Opportunities) – AIMM, Karnataka. | Jan 1-3 2018 | Acetogenins as Phosphatidyl inositol-3-Phosphate kinase inhibitors: An <i>insilico</i> analysis                    | Poster presentation |
| 17 | International Symposium on “Developing Drugs for Tomorrow (Challenges and Opportunities) – AIMM, Karnataka. | Jan 1-3 2018 | Screening of phytoconstituents and evaluation of antioxidant activity of <i>Archidendron monadelphum</i> .         | Poster presentation |
| 18 | International Symposium on “Developing Drugs for Tomorrow (Challenges and Opportunities) – AIMM, Karnataka. | Jan 1-3 2018 | Screening of phytoconstituents and evaluation of antioxidant activity of <i>Nothopegia racemosa</i> (Dalz.) Ramam. | Poster presentation |
| 19 | Indian Association for Cancer Research- Annual Conference, Thiruvananthapuram, India.                       | Feb 5-7 2020 | Antineoplastic effects of <i>Garcinia talbotii</i> extracts on Human Pancreatic cancer cell lines.                 | Poster presentation |
| 20 | Indian Association for Cancer Research- Annual Conference, Thiruvananthapuram, India.                       | Feb 5-7 2020 | Antiproliferative effects of ethyl acetate extract from <i>Artabotrys odoratissimus</i> R.Br.                      | Poster presentation |
| 21 | Indian Association for Cancer Research-   | Feb 5-7 2020 | Investigation of Gemcitabine Resistance in Nicotine Mediated   | Poster presentation |

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|    | Annual Conference, Thiruvananthapuram, India.  |                 | Pancreatic Tumor Micro-Environment.   |                     |
| 22 | Indian Association for Cancer Research-Annual Conference, Thiruvananthapuram, India. | Feb 5-7 2020    | Design and development of tumour targeted embelin loaded nanoparticles.   | Oral presentation   |
| 23 | International Conference on Artificial Intelligence and Soft Computing (ICAISC-2021) | Feb 11-13 2021  | Xanthonones as potential human vascular endothelial growth factor receptor 2 (kdr) kinase domain inhibitors: an in silico analysis                          | Oral presentation   |
| 24 | International Conference on Artificial Intelligence and Soft Computing (ICAISC-2021) | Feb 11-13 2021  | Docking based screening of potent flavonoids as CHK2 inhibitors from Genus <i>Miliusa</i> .   | Oral presentation   |
| 25 | ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ -2021  | Sep 15- 17 2021 | ಮನೋರಂಜಿನಿ: ಸುಗಂಧಭರಿತ ಸಸ್ಯದ ಅದ್ವಿತೀಯಾ ಔಷಧೀಯ ಗುಣಗಳು.  | Oral presentation   |
| 26 | ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ -2021  | Sep 15- 17 2021 | ಮೇಧೋಜೀರಕ ಗ್ರಂಥೀಯ (ಪ್ರಾಂಕ್ರಿಯಾಟಿಕ್) ಕ್ಯಾನ್ಸರ್ ನಿರೋಧಕ ಪ್ರೇರಿತ ಔಷಧ ಪ್ರತಿರೋಧ ಮತ್ತು ಅದರ ಸಂವೇಧನಾಶೀಲತೆ.  | Oral presentation   |
| 27 | ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ -2021  | Sep 15- 17 2021 | ಅಳಿವಿನಂಚಿನಲ್ಲಿರುವ ಪ್ರಬೇಧ “ಹಕ್ಕರಾ” ಬುಡಕಟ್ಟು ಜನಾಂಗದ ಸಂಜೀವಿನಿ.   | Oral presentation   |
| 28 | ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ -2021  | Sep 15- 17 2021 | ಪಶ್ಚಿಮ ಘಟ್ಟಗಳ ಮಳೆಕಾಡು ಸುತ್ತಲಿನ ಹಳ್ಳಿಗರ ಆಹಾರ ಭದ್ರತೆಯಲ್ಲಿ ಕಾಡು ತರಕಾರಿಗಳ ಪಾತ್ರ ಮತ್ತು ಪ್ರಾಮುಖ್ಯತೆ.  | Oral presentation   |
| 29 | ಕನ್ನಡ ವಿಜ್ಞಾನ ಸಮ್ಮೇಳನ -2021  | Sep 15- 17 2021 | ಸಸ್ಯಗಳ ಬೆಳವಣಿಗೆಯಲ್ಲಿ ಅಂತರ ಸೂಕ್ಷ್ಮಣು ಸಹಜೀವಿಗಳ ಪಾತ್ರ  | Oral presentation   |
| 30 | IABMS –NITTE 2021  | Nov 25-27 2021  | <i>Artabotrys odoratissimus</i> bark extract ameliorates ethanol induced oxidative stress <i>in vitro</i> and <i>in vivo</i> through down regulation of ERK | Poster presentation |

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|    |   |        |                | signaling.  |                     |
| 31 | IABMS 2021  | -NITTE | Nov 25-27 2021 | <i>Garcinia talbotii</i> fruit extract triggers P53 mediated apoptosis in human pancreatic cancer cells.  | Poster presentation |
| 32 | IABMS 2021  | -NITTE | Nov 25-27 2021 | Chemo-sensitization and ROS mediated apoptosis induced by evodiamine in pancreatic ductal adeno carcinoma (PDAC).   | Poster presentation |
| 33 | IABMS 2021  | -NITTE | Nov 25-27 2021 | Active principles of genus <i>Miliusa</i> modulates ATM signaling pathway: Molecular docking and Molecular dynamic simulation study.  | Poster presentation |
| 34 | IABMS 2021  | -NITTE | Nov 25-27 2021 | Mineral content of wild vegetables from central western ghats and their significance in nutritional security of rural population.   | Poster presentation |
| 35 | 43 <sup>rd</sup> Indian association for cancer research-2024, IISER Pune                |        | Jan 19-22 2024 | Nicotine promotes EMT and Gemcitabine Resistance via hENT/RRM1 signalling in Pancreatic cancer and chemosensitizing effects of Embelin- a naturally occurring Benzoquinone. | Poster presentation |
| 36 | National conference on Emerging Trends in Biomedical Research, SDM University, Dharwad. |        | Feb 23-24 2024 | Plant based natural products as anticancer agents: Embelin a natural benzoquinone sensitizes nicotine induced EMT in pancreatic cancer.                                     | Oral presentation   |

### 11. Administrative Experience

| Sl.No | Position | Organization                  | Duration | Responsibilities   |
|-------|----------|-------------------------------|----------|--|
| 01    | Member   | School of Biological Sciences | One year | PhD Doctoral Committee examination, M.Phil., examination |

|    |          |                      |         |  |
|----|----------|----------------------|---------|--|
| 02 | Chairman | Board of examination | 2017-18 | Conducting Practical Exams and Evaluation of theory Papers |
|----|----------|----------------------|---------|--|

### 12. Memberships of University Bodies/other organizations

| Sl. No | University/ Organization /Institute Body               | Nature of Association                                     | Period       |
|--------|--|---|--------------|
| 01     | Kuvempu University                                     | Member, Board of Examination                              | 2012 onwards |
| 02     | Kuvempu University                                     | Executive member, Kuvempu university Teachers Association | 2012-13      |
| 03     | Society of Biological Chemist                          | Life time member  | 2014 onwards |
| 04     | Indian Association for Cancer Research                 | Life time member  | 2019 onwards |
| 05     | Association of Food Scientists & Technologists (INDIA) | Life time member  | 2022 onwards |

### 13. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received.

| Sl.No | Name of Award                       | Awarding Agency                 | Year |
|-------|-------------------------------------|---------------------------------|------|
| 1.    | C.V. Raman Post-doctoral fellowship | UGC, New Delhi                  | 2013 |
| 2.    | Young Investigator Award            | American Pancreatic Association | 2014 |
| 3.    | Young Scientist Award               | VGST-Karnataka                  | 2017 |