

**Name** : Dr. V. Dhana Rangesh Kumar

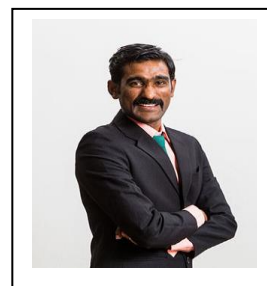
**Designation** : Assistant Professor

**Department** : Biochemistry

**Qualification** : M.Sc., Ph.D., PGDBI.

**Experience** : Teaching: 4.3 Years Industry: 1.5 Years

Research: 8.3 Years



**Area of Specialization(s)** : Cardioprotective, Cancer Biology and medicinal Plants

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### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Biochemistry	Dr. N.G.P. Arts and Science College, Coimbatore Bharathiar University	2015
M.Sc	Biochemistry	Kongunadu Arts and Science College, Coimbatore Bharathiar University	2010
B.Sc	Biochemistry	The American College, Madurai Madurai Kamarajar University	2008

### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
PG. Diploma	Bioinformatics	Bharathiar University (Distance)	2014
Online Certificate Course	Cell Culture Technologies	NPTEL	2020

Online Certificate	Digital Learning Techniques	ICT Academy	2020
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### Grants Received

Event Title	Agency	Amount	Date

### Projects

#### Completed

Project Title	Agency	Amount	Duration
Studies on molecular mechanism of cardioprotective effect of crude and active principles (garcinol) of <i>Garcinia indica</i> in experimentally induced cardiotoxicity	<b>UNIVERSITY GRANTS COMMISSION</b> New Delhi – 110 002.	Rs. 14, 13,800/-	2012 – 2015

### Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	-
M. Phil.	-	-

### Research Publications (Indexed)

#### International

1. **Dhana Rangesh Kumar V, M.Durga, D. Pradeepa (2021). Formulation and evaluation of a Polyherbal Syrup as a Immune Booster.** Strad Research. 2021, 8(9): 376 – 386. September-2021. (Indexed in Web of Science).

2. Pradeepa D, Poonkodi K, **Dhana Rangesh Kumar V** and Sanjay Prasad S (2021). **Aflatoxin Detoxification Potential of Green Synthesized Silver Oxide Nanoparticles from *Tabernaemonana divaricate* Leaf Extract**. Strad Research. 2021, 8(9): 344 – 352. September-2021. (Indexed in Web of Science).
3. Pradeepa D, Kowsika Kathiresan , **Dhana Rangesh Kumar V** , Karukuvel Raja R (2021). **Biosynthesis of Silver Nanoparticles using Anti-Microbial Peptides (AMP) from *Litopenaeus vannamei* (white leg shrimp) and Determining its Antibacterial Activity against Clinical pathogens**. Strad Research. 2021, 8(9): 335 - 343. September-2021. (Indexed in Web of Science).
4. Pradeepa Duraisamy, Keerthika S , Aswani Ram Vinod and **Dhana Rangesh Kumar V** (2021). **Preparation and Evaluation of Antioxidant, Antimicrobial Activity of Seaweed (*Kappaphycus alvarezii*) based Herbal Hair Oil Formulation**. Journal of University of Shanghai for Science and Technology. 2021, 23 (8): August-2021. (Indexed in Science Direct)
5. **Dhana Rangesh Kumar V** and Lenny Green (2021). **Cardioprotective Effects of *Garcinia Indica* Fruit rind Extract and Garcinol in Isoprenaline Hydrochloride Induced Cardiotoxicity in Rats**. Journal of Advanced Research. 2021, 12 (2) Suppl 2: July-2021. (Indexed in UGC Approved Journal)
6. **Dhana Rangesh Kumar V**, Sarvatha A.D, Sasi kokila G, D. Pradeepa (2021). **Evaluation of Antioxidant, Antibacterial Activity and Phytoactive Compounds of Aqueous Extracts of *Garcinia gummi-gutta* fruit rind**. International Journal of All Research Education and Scientific Methods. 2021, 9(6): 833-840. June-2021.( Indexed in UGC Approved Journal)
7. **Dhana Rangesh Kumar V**, Sasi kokila G, Sarvatha A.D, D. Pradeepa (2021). **Phytochemical Profiles, In Vitro Antioxidant, Anti Inflammatory and Antibacterial Activities of Aqueous Extract of *Terminalia catappa* L. Leaves**. Journal of Pharmaceutical Sciences and Research. 2021, 13(6): 340-346. June-2021. (Indexed in Scopus (Elsevier)
8. **Dhana Rangesh Kumar V**, M. Sharu latha and Benitta Soosan Thomas (2021). **Phytochemical and *In-vitro* antioxidant activity of polyherbal formulation of**

- medicinal plants.** Journal of University of Shanghai for Science and Technology. 2021, 23 (6): 170-179. June-2021. (Indexed in Science Direct)
9. **Dhana Rangesh Kumar V, Durga M, Kowsika. K, Charu Nanthini.K (2021). Assessment of Antioxidant and Phytoactive Compounds of ethanolic extract of *Mukia maderaspatana* (L.) leaves.** Journal of Emerging Technologies and Innovative Research. 8 (5):c512-c516. May-2021. (Indexed in UGC Approved Journal)
  10. M.Durga , K.Janani , A.Narmadha , S.Gowri , **V.Dhana Rangesh kumar (2021). Immensely impacted epidemic and pandemic viral outbreaks in India- A Review article"**, International Journal of Science & Engineering Development Research, ISSN:2455-2631, Vol.6, Issue 2, page no.253 - 256, February-2021(Indexed in UGC Approved Journal)
  11. Kamaraj M, **Dhana Rangesh Kumar, V**, Nithya T.G and Danya U (2019). **Assessment of Antioxidant, Antibacterial Activity and Phytoactive Compounds of Aqueous Extracts of Avocado Fruit Peel from Ethiopia.**International Journal of Peptide Research and Therapeutics. Volume 19, Issue 4, November. 2019. Impact factor: 1.219 (Indexed in Spinger).
  12. Magesh S B., Rashmi R., **Dhana Rangesh Kumar, V** and Jeyanthi, G. (2016). **Protective effect of *Raphanus sativus* on D-galactosamine induced nephrotoxicity in rats Effet néphroprotecteur de *Raphanus sativus* chez le rat après agression toxique à la D-galactosamine.** Nutrition Clinique et Métabolisme,Volume 30, Issue 1, March 2016, Pages 22-28.Impact factor: 0.292 (Indexed in Science Direct).
  13. **Dhana Rangesh Kumar, V** and Gurusamy, K. (2015).**Antioxidant and free radical scavenging potential of ethanolic extract of *Garcinia indica* Linn. Fruit.** International Journal of Scientific Research, 4 (4): 9-13.Impact factor: 0.33 (Scopus indexed)
  14. **Dhana Rangesh Kumar, V** and Gurusamy, K. (2014). **Antioxidant effect of *Garcinia indica* Linn fruit extract against isoprenaline hydrochloride induced myocardial necrosis in rats.** International Journal of Pharmaceutical Sciences and Drug Research, 6(3): 220-223.Impact factor:0.533 (Scopus indexed)
  15. **Dhana Rangesh Kumar, V**, Gurusamy, K and Virndha, C.A.(2013). **Cardioprotective activity of *Garcinia indica* Linn. Fruit extract on isoprenaline hydrochloride induced**

**cardio toxicity in rats.** International Journal of Pharmacy and Pharmaceutical Sciences, 5(4): 242-245. Impact factor: 1.59 (Elsevier products)

16. **Dhana Rangesh Kumar, V., Jayanthi, G., Gurusamy, K and Gowri, S. (2013). Antioxidant and anticancer activities of ethanolic extract of *Ficus glomerata* Roxb. In DMBA induced rats.** International Journal of Pharmaceutical Sciences and Research, 4(8): 3087-3093. 10.13040/IJPSR.0975-8232.4 (8).3087-93. Impact factor: 1.79 (Scopus indexed)
17. **Dhana Rangesh Kumar, V., Jayanthi, G and Gurusamy, K. (2013). Evaluation of the anticytotoxic activity of *Ficus glomerata* Roxb. leaf extract against DMBA induced mammary carcinoma in rats.** International Journal of Pharma and Bio Sciences, 4(2): (B) 142 – 149. Impact factor: 0.47 (Scopus indexed)

#### Presentations in Conference

1. **“Biodiseal”, “Building college-industry interface” and symposium on “Recent Advances in Biochemistry”,** The American College, Madurai, 15-Feb-08 & 16-Feb-08.
2. **Anticancer activity of *ficus glomerata* roxb. leaf extract against DMBA induced mammary carcinoma,** International conference on “Blooming Species: a Prosperous Terrain for Posterity”, P.G. and Research Department of Botany, Vellalar College for Women, Erode, 15-Feb-12 & 16-Feb-12.
3. **Nephroprotective effect of *Raphanussaturis* on galactosamine induced nephrotoxicity in wistar rats,** International conference on “Bio India”, organized by Department of Biotechnology, Vivekanandha College of Education Institution, Tiruchengode, 9- Mar-12 & 10- Mar-12, won 2<sup>nd</sup> prize for the same
4. **Biosynthesis of silver nanoparticles using *Coleus assromaticus* and evaluation of their antibacterial activity,** International seminar on “ Synergistic effect of beneficial microorganisms with multidisciplinary approaches, PG & Research department of biotechnology and microbiology, Hindustan College of Arts and Science, Coimbatore, 31-Jan-13.
5. **Antioxidant and apoptotic effect of *ficus glomerata* on DMBA induced mammary carcinoma rats,** National conference on ‘Recent Trends in Medicinal Plants and their

Products', Department of Biochemistry & Clinical Laboratory technology, Dr.N.G.P Arts and Science College, Coimbatore, 18-Sep-13.

6. **Biosynthesis of silver nanoparticles using *Mussaenda frondosa* Linn. leaf extract and evaluation of their antibacterial activity**, UGC Sponsored National Conference on 'current Approaches and Challenges in nanomaterial and nanomedicine, Department of Biochemistry, Rajah Serfoji Government College, Thanjavur, 29- Aug-13 to 30-Aug-13.
7. **Phytochemical screening and assessment of invitro antioxidants activity of *Opuntia dillenii* fruit extract**, National level Symposium, Biogalaxia' 13- Glimpse of Innovations in Biotechnology, Department of Microbial Biotechnology, Bharathiar University, Coimbatore, 03-Oct-13.
8. ***In vitro* hepatoprotective and antioxidant activities of *Juglans regia* against monosodium glutamate induced liver damage**, International seminar, Nanobio, Biomimetic materials and ITS application, Biosubmit-2014 "GREEN GOO", PG & Research department of biotechnology and microbiology, Hindustan College of Arts and Science, Coimbatore. 27-Feb-14 to 28-Feb-14.
9. **Antioxidant Effect of *Garcinia indica* Linn Fruit Extract against Isoprenaline Hydrochloride Induced Myocardial Necrosis in Rats**, International Seminar, Challenges in Biomedicine-2019, Department of Biochemistry, Sree Narayana Guru College, Coimbatore, 30-Jan-19.
10. ***In vitro* Antioxidant and Free Radical scavenging activity in ethanolic extract of *Mubia Maderaspatana***, International Conference on Contriving Therapeutic Drugs from Medicinal Plants-2020, Department of Biochemistry, Sree Narayana Guru College, Coimbatore, 12-Feb-20.

#### Participation in Workshop

1. Various procedures of production and quality control of rabies vaccine and DTP group of vaccine, Pasteur institute of India, Coonoor, 04-Sep-06 to 08-Sep-06
2. Bio-informatics, Helix info system, Chennai, 07-May-07 to 25-May-07.
3. Microbial gene technology, Biogenic laboratories, Madurai, 01-jun-09 to 20-jun-09.
4. The application of chromatography for bioscience exploration related to defence research, school of bioscience, Dr.G.R.Damodaran College of Science, Coimbatore, 5-Dec-12 to 07-Dec-12.
5. Medicinal Mushroom Cultivation Training Programme, Department of Biochemistry, Kongunadu Arts and Science College, Coimbatore, 23-Jan-2014.

6. Recent Approaches in Plant Therapeutics and Molecular Diagnostics, Biochemistry Division, School of Biological Science, CMS College of Science and Commerce, Coimbatore, 18-Feb-14
7. DST – Sponsored National Level “Hands-on Training Programme on Molecular Biology Techniques”, Department of Biochemistry and Biotechnology, Annamalai University, Annamalainagar, Chidambaram, 08-Jul-14 to 13-Jul-14.
8. 8 days Online National Level Workshop on “ Research in Higher Education Institution”, Research and Development cell, Sree Narayana Guru College, Coimbatore, 11-Aug-21 to 19-Aug-21
9. Three days National level STTP on Quality Enhancement of Research in HEIs (under UGC-PARAMARSH SCHEME), Department of Mathematics, PSGRKCW, Coimbatore, 23-Sep-21 to 25-Sep-21.

#### **Participation in Faculty Development Programme**

1. **Communicative English & Recent Methodologies in Teaching**, IQAC in association with Orenda, Social Enterprise, Bengaluru at Sree Narayana Guru College, 02-Jun-17.
2. **Quality Initiatives in Higher Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
3. **NAAC Revised Accreditation Frame Work and OBE Assessment Methodology**, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 02-Jun-19.
4. **NPTEL-AICTE FDP on Cell Culture Technologies**, NPTEL, Feb-20 to Apr-20.
5. Online FDP on **BioPython, Spoken Tutorial** and Dr. N.G.P. Arts and Science College, Coimbatore, 04-May-2020 to 10-May-2020.
6. Online FDP on **Activities of Institutions to impart quality education**, Sree Narayana Guru College, K.G. Chavadi, Coimbatore, 12-Jun-21.
7. Online FDP on **Research Methodology and Pedagogy for Tertiary Education**, Dr. N.G.P. Arts and Science College, Coimbatore, 15-Jun-21 to 21-Jun-21.
8. Online FDP on How to open **Trading and Demat Account**, Department of Commerce (BPS) and Centre for Faculty Development, Dr. N.G.P Arts and Science College, Coimbatore, 07-Oct-21.

#### Conference / Seminar / Workshop Organized

1. Association In-charge & Organized Secretary, International seminar on “**Stem Cells – Promising Approach**”, Sree Narayana Guru College, Coimbatore, 28-Jun-17.
2. Committee member, Science Academies Lecture Workshop on Recent advances in Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore, 10-Aug-18 to 11-Aug-18.
3. Organizing Secretary, Two days Interdepartmental workshop on Phytochemical Analysis under DBT-STAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 19-Sep-18 to 20-Sep-18.
4. Committee member, DBT-STAR College Scheme sponsored National symposium on Graduate research-2019 (NSGR-2019), Dr. N.G.P. Arts and Science College, Coimbatore on 23-Feb-19 to 24-Feb-19.
5. Committee member, International Conference on Prospects of Nutraceuticals and Natural Medicine, Dr. N.G.P. Arts and Science College, Coimbatore on 25-Feb-19.
6. Committee member, National Science Day Celebrations – 2019, Government Primary Schools, 28-Feb-19.
7. Committee member, Summer Internship Program (SIP-2019), Department of Biochemistry, Dr. N.G.P. Arts and Science College, Coimbatore on 23-May-19 to 28-May-19.
8. Committee member, DBT-STAR College Scheme sponsored National symposium on Graduate Research-2020 (NSGR-2020), Dr. N.G.P. Arts and Science College, Coimbatore on 21-Feb-20 to 22-Feb-20.
9. Committee member, National Conference on Futuristic Approaches in Transformation of Bioscience Research (FATBR-2020), Dr. N.G.P. Arts and Science College, Coimbatore on 06-Mar-20 to 07-Mar-20.
10. Organizing Secretary, Two days Intradepartmental workshop on Quantification of phytochemicals and *In-vitro* free radical scavenging under DBT-STAR Scheme. Dr. N.G.P. Arts and Science College, Coimbatore on 06-Mar-20 to 07-Mar-20.
11. Organizing Secretary, Two days Interdepartmental workshop on Phytopharmacology under DBT-STAR Scheme, Dr. N.G.P. Arts and Science College, Coimbatore on 22-Oct-21 to 23-Oct-21.



**Invited Speaker / Session Chair- Conference / Seminar / Workshop**

1. Invited Speaker, NSS Association with Youth Red Cross Organizes webinar on “Jan Andolan Campaign on Covid-19”, Karpagam Academy of Higher Education, Coimbatore, 28-Oct-20.
2. Invited Speaker, “Vaccination Awareness” Organized by NSS Unit – II, KSG College of Arts and Science, Coimbatore, 31-Mar-21.