

## Dr. RAJESHWARA ACHUR - CURRICULUM VITAE

### Address:

Senior Professor and Head, Dept. of Biochemistry,  
Kuvempu University, Shankaraghatta, Karnataka, India  
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### Education:

**Ph.D (1995):** Biochemistry - Central Food Technological Research Institute, Mysore,  
University of Mysore, India (Topic: Physico-chemical properties of plant lipases)  
**M.Sc. (1987):** Chemistry (Specialization - Organic Chemistry) - University of Mysore, India  
**B.Sc. (1985):** Physics, Chemistry, Mathematics - University of Mysore, India

### Professional Experience:

**2023–present:** Senior Professor, Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka, India.  
2013–2023: Professor, Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka, India.  
2023-2025: Invited Research Fellow, INTI International University, Malaysia.  
2021-2022: Sabbatical leave research, Penn State University, Hershey, PA, USA  
2019-2024: Adjunct professor, Central Research Laboratory, K.S. Hegde Medical Academy, NITTE (Deemed to be University), Mangaluru, Karnataka, India.  
2010–2013: Associate Professor, Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka, India.  
2007- 2010: Reader, Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka, India.  
2006-2007: Research Associate, Department of Pharmacology, Pennsylvania State University College of Medicine, Hershey, PA.  
2002-2005: Post-doctoral fellow, Dept. of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, USA.  
1998-2001: Post-doctoral scholar, Dept. of Biochemistry, Georgetown University Medical Center, Washington, DC, USA.

### Teaching and Research Experience:

**2007-Present:** Teaching and Research - Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka State, India.  
1995-1998: Visiting faculty - Dept. of Chemistry and Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka State, India.  
1994-1998: Lecturer, Dept. of Chemistry – Govt. College, Tarikere, Karnataka State, India.  
1991-1994: CSIR Senior Research Fellow, Central Food Technological Research Institute, Mysore, India (Ph.D. work).  
1989-1990: CSIR Junior Research Fellow, Central Food Technological Research Institute, Mysore, India (Ph.D work).  
1988-1989: Guest faculty, Dept. of Chemistry, Yuvaraja's College, Mysore.  
1987-1988: Guest faculty, Dept. of post graduate studies and research in chemistry, University of Mysore, India.

### Research:

Google Scholar h-index = 30; i10 index = 58, citations= 3,050

**2007-Present:** Worked on following research projects:

- a. NIH sponsored Indo-USA collaborative research project “Malaria Research Training in India” – Role: Co-Principal Investigator
- b. *Plasmodium vivax* epidemiology, clinical presentation and drug resistance in highly endemic Southwestern Karnataka –Role: PI, UGC sponsored project
- c. Clinical biomarkers of alcoholism in human population
- d. Phytochemical studies of *Asparagus racemosus* and *Tinospora cordifolia* (Willd.)
- e. Antioxidant and antibacterial activities of phenolic compounds from cumin (*Carum carvi*)
- f. Investigation on the medicinal property of *Memecylon terminale* Dalz
- g. Isolation and characterization of pharmacologically active components from *Cryptocarya stocksii* and *Nardostachys jatamansi*
- h. Purification and characterization of  $\alpha$  and  $\beta$  amylases and lipases from Halo-alkalophilic bacteria
- i. Phenological and Biochemical Changes associated with Off-season flowering and regular bearing habits in Mango
- j. Quinoline and Benzofuran analogues as potential anticancer agents
- k. Biochemical studies on the nature of response of cucurbits against Melon Fly infestation.
- l. Bacterial bioremediation of organic dyes
- m. Synthesis of fungicide conjugated silver nanoparticles and their potential against anthracnose disease in mango
- n. Study of Kyasanur Forest Disease epidemiology and pathogenesis.

2006-2007: Expression and purification of recombinant proteins for drug discovery to support various projects in the Pharmacology Department at Penn State College of Medicine, Hershey, PA, USA.

2002-2006: Structural characterization of placental proteoglycans and delineating the details of host-malaria parasite interactions.

1998-2002: Isolation and purification of placental proteoglycans and identification of host factors involved in malaria parasite interaction during placental malaria.

1989-1994 Isolation, purification, biochemical characterization and thermal stability studies of lipases from rice bran and wheat germ.

### **Funded Research Projects:**

2011-2019: Co-Principal Investigator - Collaborative research project on “Malaria Research Training in South India” with Pennsylvania State University, USA,

2010-2013: Principal Investigator – Project entitled “*Plasmodium vivax* Epidemiology, Clinical Presentation and Drug Resistance in Highly Endemic Southwestern Karnataka” - sponsored by University Grants Commission, India

2011-2015: Co-Principal Investigator – “Kinetics of immunological memory response induced by scorpion toxin Kinetics of immunological memory response induced by scorpion toxin”- sponsored by University Grants Commission, India.

2019-2024 PI, DST-FIST (Level 1) Rs. 117 lakhs, Department of Science and Technology, New Delhi.

2019-2021 PI, KFIST (Level 1) Rs. 20 lakhs by the VGST, Govt. of Karnataka, to work on the project entitled “Endemicity of *P. vivax* malaria in Mangalore”

### Ph.D Students Mentored:

Sl. No	Name of the Student	Topic	Duration
1	Javeed Ahmad Wani	Evaluation of Pharmacognostical, Phytochemical and Aphrodisiac activity of <i>Asparagus racemosus</i> and <i>Tinospora cordifolia</i> (Willd.)	2008-2014
2	P. Ravindra	Epidemiological survey of malaria in Southwest Karnataka and investigation of plants for antimalarial activity	2008-2015
3	H. S. Raghu	Identification and Characterization of Novel Plasma Proteins as Clinical Biomarkers of Alcoholism in Human Population	2008-2016
4	Mohammad Al Za Zee (Co-guide)	Purification and Biochemical characterization of alpha and beta amylases and lipases from Halo-alkalophilic bacteria	2009-2013
5	N. B. Thippeswamy	Studies on antioxidant and antibacterial activities of phenolic compounds from cumin ( <i>Carum carvi</i> )	2009-2014
6	S. K. Peethambar	Investigation on the medicinal property of <i>Memecylon terminale</i> Dalz. and their Characterization	2009-2015
7	M.E. Veena (Co-guide)	Isolation and characterization of pharmacologically active components from <i>Cryptocarya stocksii</i> and <i>N. jatamansi</i>	2009-2017
8	Shivuprasad (Co-guide)	Phenological and Biochemical Changes associated with Off-season flowering and regular bearing habits in Mango	2012-2016
9	Madhusudana	Biochemical studies on the nature of response of cucurbits against melon fly infestation	2013-2018
10	Kiran Kumar D	Studies on Epidemiology of Malaria in Mangalore	2013-2018
11	Shiny Joy	Malaria in Mangalore city: Parasite genetic diversity and drug resistance	2013-2018
12	Punnath Kishore	Studies on the Pathophysiology of Malaria in Mangalore	2015-2018
13	Valleesha N.C	Prevalence, severity and biochemical analysis of pregnancy associated malaria in Mangalore	2015-2020
14	Kipto Geoffry	Isolation, purification and characterization of marine fungal lipase.	2015-2018
15	Praveen Kumar	Quinoline and Benzofuran analogues as potential anticancer agents	2015-2021
16	S.N. Raghavendra	Synthesis of fungicide conjugated silver nanoparticles and their potential against anthracnose disease in mango	2016-2020
17	Joan Chebet (Kenyan)	Studies on the decolourization of selected textile azo dyes by soil bacteria	2017-2022
18	Pradeep Kumar	Nitrogen heterocyclic derivatives as potential anti-cancer agents	2019-
19	Manjula M.V.	Green synthesis, characterization and pharmacological evaluation of metal oxide nanoparticles.	2019-2024
20	Abdul Rahman (Co-guide)	Synthesis and anticancer evaluation of novel palladium catalysed nitrogen heterocycles	2020-2023
21	Megha G T	Molecular characterization and biological assessment of bioactive molecule(s) from <i>Solanum virginianum</i> plant	2020-2024
22	Mohanrao Kanchipamu	Assessment of heavy metals induced toxicity among e-waste workers.	2020-
23	Malini B.P	Synthesis, characterization and antibacterial evaluation of metal oxide nanoparticles	2020-2025
24	Waleed Mohammed Saleh	Evaluation of anti-inflammatory and antioxidant activity of bioactives from <i>simarouba glauca</i>	2020-2025
25	Ankith G N	Silver nanoparticles synthesis, characterization and cyclic voltametric analysis of antimalarial drugs using modified carbon paste electrode	2023-

### Guidance of M.Sc. Student's projects:

Sl. No	Name	Title	Year
1	Megha S.R, Shwetha H.R, Sharada A.T, Shilpa K	Raising polyclonal antibodies in laboratory animal against mycobacterium toxoid	2008-09
2	Usha P	Screening of protease from eastern Russels viper's snake venom and it's inhibition by aqueous extract of <i>Turmeric (Curcuma longa)</i>	2008-09
3	Namitha S	Effect of low molecular weight protein of Turmeric on Russell Viper's phospholipase A2	2008-09
4	Souparnika Joshi. N	Molecular characterization of Multi-drug Resistant <i>Pseudomonas aeruginosa</i> (UTI) by RAPD	2008-09
5	Rashmi S.V	Effect of processing on <i>in vitro</i> digestibility of Carbohydrate	2008-09
6	Pradeep Kumar S	Production purification and immunological of asperginase from different <i>Aspergillus</i> species	2009-10
7	Mahesh M.C	Studies on the <i>In-vitro</i> antioxidant activity of bitter gourd rind and pulp	2009-10
8	Geetha A.T	Antimicrobial activity of Methi leaves	2009-10
9	Naveen C.V	Antioxidant properties of hydroalcoholic extract from the stem of <i>Tinospora coridifolia</i>	2009-10
10	Namaratha G.V Jayashree T.N, Pavithra R	Standardization of silica column method for plant DNA isolation and RAPD analysis of Banana varieties	2009-10
11	Yashashwi K	DNA damage preventive activity of peak I protein from aqueous extract of Turmeric ( <i>Curcuma longa</i> L)	2010-11
12	Akshatha A.K. Maheshwari Kumari Singh	Biochemical characterization of peel of apple and cashew for Purple genotype ( <i>anacardium accidentale</i> L) and <i>semicarpus anacardium</i> (Jungly Caju)	2010-11
13	Madhusudhana	Analysis of protein biochemical parameters of two different multi and bi hybrids of silkworm, <i>Bombyx mori</i> L	2011-12
14	Bharath	Extraction and preliminary In-vitro and in-vivo characterization of phenolic constituents from plants.	2012-13
15	Sowmya K B	Effect of Ginger on the biological activities of green tea	2012-13
16	Girisha S Karthik A. E	Genome wide analysis of human KELCH Repeats and Comparative Analysis of KELCH Interactomes	2012-13
17	Jayachandra K Nandheesha T G	Free radical scavenging potential and Anticancer activity of <i>Lawsonia Inermis</i> and <i>Glycyrrhiza glabra</i>	2013-14
18	Krupa H.V Vidhathri B.S	Comparative assessment of antioxidant status in normal individual patients suffering from Chronic Obstructive Pulmonary Disease	2013-14
19	Raghavi	Green synthesis of silver nanoparticles with <i>in silico</i> study and identification of antifungal activity with special characterization on stem extract of <i>cissus quadrangularis</i>	2014-15
20	Potri V. Naik Akshay Kumar N	Production, purification and characterization of food processing enzyme Pectinase from <i>Bacillus</i> Species	2015-16
21	Salma S	Isolation and characterization of immunoglobulin Y from chicken egg	2015-16
22	Sowmya G	Development of PCR for molecular marker linked to disease	2015-16

		resistance in Malnad Gidda cow	
23	Madhuri S Latha V	Development and evaluation of native Plant Growth Promoting Rhizomicrobial Consortia on growth and yield of sweet corn	2015-16
24	Shruthi G Priyanka L	Serum cholesterol profile and their internal ratios in Type-2 diabetes mellitus	2015-16
25	Smruthi J.M	Molecular characterization of Promoter region of k-Casien gene in Malnad Gidda cow	2016-17
26	Chethana T Anitha G.U	Development and evaluation of phosphate solubilizing native yeast on Sambar onion	2016-17
27	Medha K. Arpitha E.M	Partial purification and analysis of polyphenol oxidase from <i>COCOS NUCIFERA</i>	2016-17
28	Meghana M.S	Physico chemical changes during deep fat frying and microbial load in Gulab jamun process	2016-17
29	Prathima R	Molecular characterization of Promoter region of $\alpha$ S1-Casien gene in Malnad Gidda cow	2016-17
30	Monica B. N	Biochemical and molecular analysis of fruit acidity in Mango	2016-17
31	Chaitra E, Sinduja K Suneetha M.B	Molecular characterization of $\beta$ -defensin gene in Malnad cow	2017-18
32	Pooja R. Rao	Phytochemical screening and <i>in-vitro</i> assessment of antibacterial activity of hydro-ethanolic extract of <i>Tinospora cordifolia</i> stem	2017-18
33	Pallavi A.P Ranjitha S.K	Molecular characterization of Lactoferrin gene in Malnad Gidda Cow	2017-18
34	Srinivas H.N Manju B.G	Isolation and partial purification of acid phosphatase from <i>vigna radiata</i>	2017-18
35	Anusha M.D Supritha S	Molecular characterization of functional domain (LRR) of TLR9 gene in Malnad Gidda cattle and their comparison to crossbreed cattle	2017-18
36	Ramyashree H K	Formulation. Development and Evaluation Studies on Nimesulide Gel.	2018-19
37	Vishwanatha C M	Phytochemical Screening, Antibacterial, Antioxidant and Anti-Inflammatory Activity of <i>Delonix Regia</i> Plant Bark Extract.	2018-19
38	Ganesh	Evaluation of antimicrobial activity against antibiotic resistant clinical isolate.	2018-19
39	Swetha A	Formulation, Development and Evaluation of Stable Ambroxol Hydrochloride Syrup.	2018-19
40	Gangamma D A Meghana K N	Antimicrobial Activity of Green Synthesized Metal Oxide and Doped Metal Oxide Nanoparticles By Using <i>Macrotyloma Uniflorum</i> .	2018-19
41	Jagadeesha N	Phytochemical Screening, Antibacterial, Antioxidant and Anti-Inflammatory Activity of <i>Tamarindus Indica</i> Plant Bark Extract.	2018-19
42	Bhuvana M P	Effect of shock waves on the shelf life of raw milk	2018-19
43	Basavadeeksha A	Pharmacological Analysis of Piptaz for Injection.	2018-19
44	Gaganashree S Keshav V.K, Sanjay Kumar B, Sushmitha J	Isolation, screening, optimization, partial purification and characterization of marine fungal lipase from <i>Aspergillus terreus</i>	2019-20

45	Akhilesh S, Veena H.P, Anusha K.H Nagashree R.S	Isolation, screening, optimization, partial purification and characterization of lipase from <i>Aspergillus terreus</i> -a marine fungus	2019-20
46	Chaitra C	Potency of mancozeb conjugated silver nanoparticles against <i>colletotrichum gloeosporiodes</i> causing anthracnose disease	2019-20
47	Divyashree K	Antifungal efficiency of COC conjugated silver nanoparticles against <i>Colletotrichum gloeosporiodes</i> which cause anthracnose disease	2019-20
48	Bhanupriya G Priyanka CV, Ankitha S Vishwanatha B R	Biological synthesis of ampicillin conjugated silver nanoparticles from cinnamon extract and their anti- microbial effect	2020-21
49	Poorvika H P Deepa M, Heena Zeba, Megha K U	Green synthesis of silver nanoparticles and antibiotic conjugated silver nanoparticles using <i>Lantana camara</i> leaf extract and their antimicrobial activity	2020-21
50	Kavya R Sahana G S	Biological synthesis of bacteomycin conjugated silver nanoparticle from clove extract and their antibacterial effect against <i>Xanthomonas campestris</i>	2020-21
51	Achala H G	Evaluation of antioxidant activity, larvicidal activity and preliminary phytochemical analysis of <i>Dimocarpus longan</i>	2020-21

#### **Membership in professional bodies:**

- American Society for Tropical Medicine and Hygiene (ASTMH), USA
- Society of Biological Chemists (SBC), India
- Society for Educational and Scientific Research, India
- Editorial board member of Universal Journal of Pharmaceutical Research
- Chairman, Institutional Ethical Committee, Shimoga Institute of Medical Sciences, Shimoga

#### **Reviewer for the international journals:**

- UK Research and Innovation (UKRI) Malaria Grant application
- The Lancet
- Transactions of The Royal Society of Tropical Medicine and Hygiene
- Malaria Journal
- Carbohydrate Research
- Chemical Biology and Drug Design,
- Letters in Drug Design and Delivery,
- Human and Experimental Toxicology
- Universal Journal of Pharmaceutical Research
- Applied Biochemistry and Biotechnology
- Springer Nature Research Integrity Group
- Current Pharmaceutical Biotechnology (Bentham)
- Journal Infection and Drug Resistance (Dove Press)
- Helion

#### **External adjudicator of Ph.D thesis**

Evaluated more than 30 Ph.D theses in various disciplines from the following institutions:

- University of Mysore, Mysore, Karnataka
- Acharya Nagarjuna University, Andhra Pradesh

3. Sri Venkateswara University, Tirupati, Andhra Pradesh
4. Sri Krishnadevaraya University, Andhra Pradesh
5. University of Calicut, Kerala
6. University of Mumbai, Mumbai
7. Pondicherry University, Pondicherry
8. Prist University, Thanjavur, Tamilnadu
9. Karpagam University, Tamilnadu
10. Mangalore University, Mangaluru
11. Bharathidasan University, Tamilnadu
12. Nagarjuna University, Andhra Pradesh
13. Defence Food Research Laboratory, Mysore
14. Davangere University, Davangere.
15. VTU, Belagavi
16. JSS University, Mysuru
17. CFTRI, Mysore

## Honours and Awards

1. **1989-1994:** Junior and Senior Research Fellowships by the Council of Scientific and Industrial Research (CSIR), New Delhi, India to work at CFTRI, Mysore, for the Ph.D programme.
2. **2003:** American Society for Biochemistry and Molecular Biology (ASBMB) Postdoctoral travel award for presenting my work in the experimental Biology meeting, Apr 11-15, 2003, San Diego, CA.
3. **2004:** Fund for the Promotion of International Scientific Research travel award to briefly work with Prof. Takagaki and to attend the scientific meeting to celebrate the institutionalization of Hirosaki University held on September 6, 2004 at Hirosaki, Japan.
4. **2010:** Co-PI, NIH funded collaborative research project between Pennsylvania State University College of Medicine, Hershey, PA, USA, and Kuvempu University, India.
5. **2013:** Travel award to attend Keystone symposium on malaria during Jan 20-25<sup>th</sup>, 2013, New Orleans, Louisiana, USA, Keystone Symposia Global Health Series, Supported by the Bill and Melinda Gates Foundation and Medicines for Malaria Venture.
6. **2019:** Travel award to attend Keystone symposium on “The Malaria Endgame: Innovation in Therapeutics, Vector Control and Public Health Tools (G1-2020) during Oct 30-Nov 02, 2019, Addis Ababa, Ethiopia, Keystone Symposia Global Health Series, Supported by the Bill and Melinda Gates Foundation.
7. **2021:** Awarded JSPS Invitational Fellowship (Long term) to work with Prof. Richard Culleton, Ehime University, Japan.
8. **2025:** Travel award to attend Keystone symposium on “Vaccinology: Horizons Across Disease, Demography and Technology” during Jun 04-Jun 07, 2025, Washington, DC, USA, Keystone Symposia Global Health Series, Supported by the Bill and Melinda Gates Foundation.

### **Scientific meetings organized in India during 2008-Present:**

1. UGC Sponsored National Seminar on Recent trends in Biochemistry and Biotechnology during 1-2 April, 2009 at Kuvempu University, Shimoga, Karnataka.
2. Faculty Development Program for Science Faculty of Undergraduate College (FDP-UG) in Biochemistry during March, 3-5, 2011 at Kuvempu University, Shimoga, Karnataka.
3. A "science quiz" program sponsored and managed by the Vision Group on Science and Technology and the Dept. of IT, BT and S&T, Govt. of Karnataka on 2<sup>nd</sup> May 2011 at Kuvempu University, Shimoga, Karnataka.
4. National Seminar on "Challenges in Malaria and infectious diseases research-2011" during May 3-4, 2011 at Kuvempu University, Shimoga, Karnataka.
5. Indo-US seminar cum workshop on "Malaria Research Training" during 16-21<sup>st</sup> Jan, 2012 at Jawaharlal Nehru Center for Advance Scientific Research, Bangalore, Karnataka.
6. National Seminar on "Progress in Biomedical Research and Its Impact on Human Health" held during 2-3<sup>rd</sup> April 2012 at Kuvempu University, Shimoga, Karnataka.
7. Indo-US seminar cum workshop on "Malaria Research Training" on 5-6<sup>th</sup> Feb 2013 at Mangalore, Karnataka.
8. Health Sciences Research Day, 18<sup>th</sup> July, 2014 at Kuvempu University, Shimoga, Karnataka.
9. National seminar on "Human diseases: Current advances in understanding the molecular mechanism and therapy" on 17<sup>th</sup> April 2015 at Kuvempu University, Shimoga, Karnataka.
10. National Seminar on "Advances and Challenges in Biological Research" held on 17<sup>th</sup> March 2016 at Kuvempu University, Shimoga, Karnataka.
11. International Conference on "Malaria in Global Health" held during 17-18<sup>th</sup> March, 2017 in collaboration with K.S. Hegde Medical Academy, Mangalore, Karnataka.
12. National symposium on "Recent Advances in Malarial Research" held on 24<sup>th</sup> Feb 2018 in collaboration with K.S. Hegde Medical Academy, Mangalore, Karnataka.
13. National seminar on "Innovative Approaches in Biological Science Research" held during 22-23 March, 2019 at Kuvempu University, Shimoga, Karnataka.
14. National conference on "Contemporary Focus and Future Prospects in Biological Research" held during 21-22 March, 2024 at Kuvempu University, Shimoga, Karnataka.
15. International conference on "Research Trends on Noni and Sustainable Utilization of Biodiversity for Human Wellness", Apr 10-12, 2025 at Kuvempu University, Shimoga, Karnataka.

### **Participative Experience in Academic Meetings during 2008-present**

1. 35<sup>th</sup> Annual meeting of the Indian Immunological Society at Institute of Life Sciences, Bhubaneswar, Orissa, 12-14<sup>th</sup> December, 2008, Organized by the Indian Immunological Society "Plasmodium vivax malaria in Southwestern Karnataka" (Invited Talk).
2. National symposium CHEMEXCEL-2009, Davangere, 06-03-2009, Organized by Bapuji Institute of Engineering and Technology. "Studies on anti-microbial activity of critically endangered medicinal plant *N. Jatamansi*" (Poster).
3. 5<sup>th</sup> MIM Pan-African Malaria Conference, Nairobi, Kenya, 2-6<sup>th</sup> November 2009, at Kenya Medical Research Institute. "Dynamics of *P. falciparum* and *P. vivax* infection in highly endemic region of south-western India" (Invited Talk).
4. National seminar on "Impact of Microbes on Health", February 27-28, 2010, organized by the Dept. of Microbiology, Kuvempu University, Shimoga.
5. Recent Trends in Chemical and Biological Sciences, 30-31<sup>st</sup> March, 2010, Dept. of Chemistry, Kuvempu University. "Burden of Malaria"(Invited Talk).



6. Refresher course in Biology for Pre-University Lecturers organized by the Govt. of Karnataka, PUE Board, 27-11-2010 at J.C.B.M College, Sringeri, Chikkamagalur Dist. "Recent Advances in Immunology"(Resource person).
7. Refresher course in Biology for Pre-University Lecturers organized by the Govt. of Karnataka, PUE Board, 17-12-2010, at Jain Residential College, Jakkasandra, Kanakapura Taluk, Ramanagar (Dist). "Recent Advances in Immunology" (Resource person).
8. International Symposium on Challenges in Drug Discovery Programme – 2011, February 16-17, 2011, Karnataka State Open University, Mysore. "Assessment of *P. falciparum* malaria prevalence in Mangalo-re region of Karnataka" (Invited Talk).
9. Seminar series-2011 on "Aging, Secondary ageing Lifestyle Diseases & Medicinal Foods: Cures for All Diseases", March 24-25, 2011 organized by the Dept. of Food Technology, Davangere University, Davangere. "Etiology of Malaria Disease" (Invited Talk).
10. National seminar on "Role of Microbes: Past, Present and Future", March 28-29, 2011, Dept. of Microbiology, Kuvempu University, Shimoga. "*Plasmodium falciparum* malaria and Pregnancy". (Invited Talk).
11. International conference on synthetic and structural chemistry (ICSSC)-2011, 8-10 December, 2011, Mangalore University, Mangalore. "Epidemiology of malaria in Mangalore". (Invited Talk).
12. Indo-US Seminar cum workshop on "Malaria Research Training", 16-21<sup>st</sup> January, 2012 JNCASR, Bangalore in association with Kuvempu University, Shimoga and NIMR, Bangalore. "Pregnancy Malaria" (Organizer and Resource Person).
13. One-day seminar on "Chemistry – Our life, our future", 27<sup>th</sup> March 2012, Sri JCBM College, Sringeri. "Malaria Pathogenesis" (Resource Person).
14. Sri Siddaganga College of Arts, Science and Commerce, Emerging trends in Nuclear Chemistry, 28<sup>th</sup> -29<sup>th</sup> March, 2012. "Use of Radio isotopes in Medicine" (Resource Person).
15. New Frontiers in Animal Science, April 9-10<sup>th</sup>, 2012, Dept. of Zoology, Kuvempu University.
16. Indo-US Symposium on Molecular Pharmacology and Applied Therapeutics, 6-7 November, 2012, JSS University, Mysore. "Pregnancy Malaria" (Invited Talk).
17. Keystone Symposium on Malaria, held at J.W. Marriott, New Orleans, Louisiana, USA, during Jan 20-25, 2013 – Awarded Travel grant by the Bill and Melinda Gates Foundation, Supported by the Bill & Melinda Gates Foundation. "A Scenario of Urban Malaria in Southwestern India: A Study from Mangalore city" (Poster presentation).
18. Indo-US seminar cum workshop on "Malaria Research and Training", 5<sup>th</sup> February 2013 at Mangalore. Dept. of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga. "Epidemiology of Pregnancy Malaria in Dakshina Kannada Dist." (Organizer and Resource Person).
19. Post graduate department of studies and research in biotechnology, Sahyadri science college (autonomous), Shimoga, UGC sponsored two-day national conference on "biotechnology in health care: from bench to bedside" 27<sup>th</sup> & 28<sup>th</sup>, September, 2013. "The current scenario of untenable malaria" (Invited Talk).
20. School of Life Sciences, Manipal University, Manipal, 2<sup>nd</sup> Annual meeting of SBC (I), Coastal Karnataka Chapter on 26<sup>th</sup> October 2013. "Pregnancy Malaria" (Invited Talk).
21. National seminar on "Pharmaceutical approach for malarial targeting and resistance", February 14-15, 2014, Dept. of Pharmaceutics, JSS College of Pharmacy, Ooty-643001. "Sustained burden of malaria in Mangalore" (Invited Talk).
22. Karnataka Veterinary, animal and Fisheries Sciences University, Bidar, Workshop on" Intellectual Property Rights" held on 4<sup>th</sup> July 2014, Veterinary College, Shimoga, "Training the Trainer".
23. Sarada vilas college, Sarada vilas road, krishnamurthypuram, Mysore -570004, Karnataka. National conference on "Recent trends in bioorganic chemistry and their application to

- society" held on 26-27 September, 2014. "Integration of chemistry and biology: understanding the role of glycans in placental malaria" (Invited Talk).
24. Society for educational and scientific research, Kumarakom, KERALA, (advisory committee member), "International conference on Biosciences: State of the art advancements" held on 11-12 Sept, 2014. "Assessment of *P. Vivax* malaria severity in Mangalore" (Invited Talk).
  25. Department of Microbiology, Sahyadri Science College, Shimoga, One-day state level seminar on "Emerging trends in Microbiology: issues and Challenges" held on 31<sup>st</sup> March, 2015. "Integration of Chemistry and Biology: understanding the mechanism of pregnancy malaria" (Invited Talk).
  26. Cliniminds, Institute of health sciences training and management at Shimoga Institute of Medical Sciences, Shimoga, Karnataka, India, ICH-GCP workshop on clinical research, 7<sup>th</sup> May, 2016. (Participant).
  27. Dept. of Biochemistry, Sahyadri Science College, Shimoga, Karnataka, One-day state level conference on "A contemporary bio-chemistry in health & diseases, 10<sup>th</sup> March, 2017. "Nanomedicine: The future medicine" (Invited Talk).
  28. K.S. Hegde Medical Academy, Mangalore (NITTE University), International Conference on "Malaria in Global Health" Held during 17-18<sup>th</sup> March 2017. "Prevalence, Seasonal variation & Dynamics of Malaria Infection among native and non-native population in Mangalore, Karnataka" (Invited Talk).
  29. Dept. of Biochemistry, Mangalore University PG center, Chikka Aluvara, Kodagu, National conference on "Trends in Bioactive Natural Products and Healthcare", held during 6-7<sup>th</sup> October, 2017. "Screening and production optimization of novel halophilic marine lipase from *Fusarium solani*" (Invited talk and Session Chair).
  30. Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta, Two-days' national conference on "Recent Advances in Chemical Biology and Material Science for Industry and Society" held during Feb 9-10, 2018.
  31. K.S. Hegde Medical Academy, Mangalore (NITTE University), National symposium on "Recent Advances in Malarial Research" held on 24<sup>th</sup> Feb 2018. "Malaria prevalence in Mangaluru city area in the southwestern coastal region of India" (Resource Person).
  32. Dept. of Biochemistry, Davangere University, Davangere, One-day Seminar in the honour of Prof. B. Madhusudhan, 5<sup>th</sup> Sept 2018. "Burden of Malaria in Mangalore" (Special Talk).
  33. Garden City University, Bangalore, International conference on "Multidisciplinary Approach of Science: Nanotechnology – a Boon for Mankind", held during 18-19<sup>th</sup> Sept, 2018. "Role of fungicide conjugated nanoparticles against plant pathogenesis" (Invited Talk).
  34. Dept. of Biochemistry, Mangalore University PG center, Chikka Aluvara, Kodagu, International conference on "Current concepts on the role of Indian medicine and phytochemicals in maintenance of health" held during 15-17<sup>th</sup> November 2018. "Association between inflammatory cytokine responses and anemia during severe malarial infections" (Invited talk and Session Chair).
  35. Subbaiah Institute of Medical Sciences, Shimoga, Workshop on Research Methodology on 30<sup>th</sup> Nov 2018.
  36. Dept. of Pharmaceutical Chemistry, Kuvempu University PG Center, Kadur. National Seminar on "Trends in Drug Discovery and Development" held during 25-26<sup>th</sup> March 2019. "New perspectives of drug development for pregnancy malaria" (Invited Talk).
  37. Conference proceedings of American Society for Tropical Medicine and Hygiene, USA, Nov 20-24, 2019. "The epidemiological severity of recent Kyasanur Forest Disease outbreak in an unexpected Western Ghat region of Southwestern India suggests increased invasiveness" Rajeshwara Achur, Sayad Hafeez, N.B Thippeswamy.

38. Dept. of Biochemistry, Sahyadri Science College, Shimoga, Karnataka, State level seminar on "Impact of biochemistry in interdisciplinary research", 17<sup>th</sup> Dec 2019. "Impact of biochemistry in interdisciplinary research" (Keynote speaker).
39. Keystone Symposium on Malaria, The Malaria Endgame: Innovation in Therapeutics, Vector Control and Public Health Tools (G1-2020, Addis Ababa, Ethiopia Series, USA. Oct 30-Nov 02, 2019. "Anti-merozoite surface protein-1 antibodies in mild and severe malarial infections in Mangaluru region of South-western India" (Travel award recipient and poster).
40. Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka along with JNCASR, Bangalore, Bengaluru India Nano, 'Nano for a Better World' during March 02-03, 2020 at The Lalit Ashok, Bangalore, India. (Participant).
41. Shimoga Institute of Medical Sciences, Shimoga, Karnataka, India, workshop on "Research Methodology", 20<sup>th</sup> November, 2020, (Resource person).
42. American Society for Tropical Medicine and Hygiene annual meeting, Toronto, Canada, Nov 15-19, 2020. Poster presentation on "Complications of oxidative stress responses during pregnancy malaria"
43. Delivered a webinar on "COVID-19 Vaccines: What do we know?" 19<sup>th</sup> January, 2021.
44. National Webinar talk on "Malaria During Pregnancy: New Perspectives of Drug Development" Organized by Dept. of Biochemistry, JSS College for women, Mysore, Karnataka, India. 15<sup>th</sup> July, 2021.
45. American Society for Tropical Medicine and Hygiene annual meeting, Gaylord National Resort and convention center, national harbor, Maryland, USA, Nov 17-21, 2021. Poster presentation on "Pro and Anti-inflammatory cytokine responses during pregnancy associated malaria in Mangaluru, India.
46. Chemical Sciences Conference 2022 on "Trends and Innovations in Chemical Science for Sustainable Development", Organized by University of Eldoret, Kenya March 16-18, 2022. Invited talk on "The Current Scenario of Malaria Burden and Future Prospects of Eradication".
47. Attended the online Spinco Biotech's Sharing the Learning Webinar on "Know your compound and quantify using Tandem MS, 21<sup>st</sup> September 2022.
48. Special Lecture series 2023, Organized by Society of Biological Chemists (India), Davangere Branch, Dept. of Biochemistry, Davangere University, Davangere, Karnataka, India. 27<sup>th</sup> Jan 2023. Invited talk on "New Perspectives of Drug Development for Pregnancy Malaria".
49. Monthly research lecture series-6, organized by Karnataka State Higher Education Council, Bangalore, Karnataka, India. 26<sup>th</sup> June 2024. Invited talk on "Pregnancy malaria burden and future prospects of eradication"
50. Invited talk on "Heavy metals induced toxicity among E-waste workers: A cross sectional study" at the International conference on "Trace elements in man and animals (TEMA-18)", held at M.S. Ramaiah Institutions, Bengaluru, India, during 8-12 Nov, 2024.

### **Research Publications:**

1. Sudhindra Rao, K., Rajendran, S., **Rajeshwara, A.N** and Prakash, V (1991) Structural stability of lipase from wheat germ in alkaline pH. J. Protein Chem. 10, 291-299. (ISSN: 1573-4943; Print: 1572-3887)
2. **Rajeshwara, A.N** and Prakash, V (1994) Structural stability of lipase from wheat germ. Int. J. Peptide Protein Res. 44, 435-440. (ISSN: 0367-8377)
3. **Rajeshwara, A.N** and Prakash, V (1994) Interaction of guanidine hydrochloride and guanidine thiocyanate with wheat germ lipase. Indian J. Biochem. Biophys. 31, 315-321. (ISSN: 0975-0959; Print: 0301-1208)
4. **Rajeshwara, A.N** and Prakash, V (1995) Purification and characterization of lipase from rice bran. Die Nahrung. 9, 5/6, 406-418.
5. **Rajeshwara, A.N.**, Gopalakrishna, K.N and Prakash, V (1996) Preferential interaction of denaturants with rice bran lipase. Int. J. Biol. Macromol. 19, 1-7. (ISSN: 0141-8130)

6. **Rajeshwara, A.N** and Prakash, V (1996) Effect of denaturants and cosolvents on the stability of wheat germ lipase. *J. Agric. Food Chem.* 44, 736-740. (ISSN: 1520-5118; Print: 0021-8561)
7. **Rajeshwara N Achur.**, Valiyaveettil, M., Alkhalil, A., Ockenhouse, C.F and Gowda, D.C. (2000) Characterization of proteoglycans of human placenta and identification of unique chondroitin sulfate proteoglycans of the intervillous spaces that mediate the adherence of *Plasmodium falciparum*-infected erythrocytes to the placenta. *J. Biol. Chem.* 275, 40344-40356. (ISSN: 1083-351X; Print: 0021-9258)
8. Alkhalil, A., **Rajeshwara N Achur.**, Valiyaveettil, M., Ockenhouse, C.F and Gowda, D.C. (2000). Structural requirements for the adherence of *Plasmodium falciparum*- infected erythrocytes to chondroitin sulfate proteoglycans of human placenta. *J. Biol. Chem.* 275, 40357-40364. (ISSN: 1083-351X; Print: 0021-9258)
9. Valiyaveettil, M., **Rajeshwara N Achur.**, Alkhalil, A., Ockenhouse, C.F and Gowda, D.C. (2001) *Plasmodium falciparum* cytoadherence to human placenta: Evaluation of hyaluronic acid and chondroitin 4-sulfate for binding of infected erythrocytes. *Exp. Parasitol.* 99, 57-65. (ISSN: 0014-4894; Print: 1090-2449)
10. O'Neil-Dunne, I., **Rajeshwara N Achur.**, Agbor-Enoh, S.T., Valiyaveettil, M., Naik, R.S., Ockenhouse, C.F., Zhou, A., Megnekou, R., Leke, R., Taylor, D.W and Gowda, D.C (2001) Gravity-dependent production of antibodies that inhibit binding of *Plasmodium falciparum*-Infected erythrocytes to chondroitin sulfate proteoglycan during pregnancy. *Infect. Immun.* 69, 7487-7492. (ISSN: 1098-5522; Print: 0019-9567)
11. **Rajeshwara N Achur**, Valiyaveettil, M., and Gowda, D.C. (2003) The low sulfated Chondroitin sulfate proteoglycans of human placenta have sulfate group-clustered domains that can efficiently bind *Plasmodium falciparum*-Infected erythrocytes. *J. Biol. Chem.* 278, 11705-11713. (ISSN: 1083-351X; Print: 0021-9258)
12. Sean T. Agbor-Enoh., **Rajeshwara N Achur.**, Valiyaveettil, M., Leke, R., Taylor, D.W and Gowda, D.C (2003) Chondroitin sulfate proteoglycan expression and binding of *Plasmodium falciparum*-Infected erythrocytes in the human placenta during pregnancy. *Infect. Immun.* 71(5), 2455-2461. (ISSN: 1098-5522; Print: 0019-9567)
13. Valiyaveettil, M., **Rajeshwara N Achur.**, Muthusamy, A and Gowda, D.C. (2004) Adherence of *Plasmodium falciparum*-Infected erythrocytes to chondroitin sulfate proteoglycans on the endothelium of human umbilical vein. *Mol. Biochem. Parasitol.* 134, 115-126. (ISSN: 0166-6851)
14. **Rajeshwara N. Achur.**, Muthusamy, A., Bhavanandan, V.P., Fouda, G.G., Taylor, D.W and Gowda, D.C. (2004) *Plasmodium falciparum*-infected erythrocytes adhere both in the intervillous space and on the villous surface of human placenta by binding to the low sulfated chondroitin sulfate proteoglycan receptor. *Am. J. Pathol.* 164, 2013-2025. (ISSN: 0002-9440)
15. Muthusamy, A., **Rajeshwara N. Achur.**, Valiyaveettil, M., Madhunapantula, S.V, Kakizaki, I., Bhavanandan, V.P and Gowda, D.C. (2004) Structural characterization of the bovine tracheal chondroitin sulfate chains and binding of *Plasmodium falciparum*-infected erythrocytes. *Glycobiology*, 14, 635-645. (ISSN: 1460-2423; Print: 0959-6658)
16. Muthusamy, A., **Rajeshwara N. Achur** and Gowda, D.C. (2004) *Plasmodium falciparum*: Adherence of the parasite-infected erythrocytes to chondroitin sulfate proteoglycans bearing structurally distinct chondroitin sulfate chains. *Exp. Parasitol.* 107, 183-188. (ISSN: 0014-4894; Print: 1090-2449)
17. **Rajeshwara N. Achur.**, Muthusamy, A., and Gowda, D.C. (2004) Chondroitin sulfate proteoglycans of bovine cornea: Characterization and assessment for *Plasmodium falciparum*-infected erythrocyte adherence studies. *Biochim. Biophys. Acta*, 1701, 109-119. (ISSN: 1745-7270; Print: 1672-9145)
18. Valiyaveettil, M., **Rajeshwara N Achur.**, Muthusamy, A and Gowda, D.C. (2004) Matrix proteoglycans of human umbilical cord blood vessels and Wharton's jelly. *Glycoconjugate J.* 21, 361-365. (ISSN: 0282-0080; Print: 1573-4986)
19. Gowda, D.C., **Rajeshwara N. Achur.**, Muthusamy, A and Takagaki, K. (2004) Low sulfated chondroitin sulfate mediates *Plasmodium falciparum*-infected erythrocyte adherence in human placenta. *Trends Glycosci. Glycotechnol.* 16,407-420. (Invited Review). (ISSN: 883-2113; Print: 0915-7352.)
20. Ghislaine Mayer, D.C., Jiang, L., **Rajeshwara N. Achur.**, Kakizaki, I., Gowda, D.C. and Miller, L.H. (2006) The glycophorin C N-linked glycan is a critical component of the ligand for the *Plasmodium falciparum* erythrocyte receptor BAEBL. *Proc. Natl. Acad. Sci. USA*, 103, 2358-2362. (ISSN: 0027-8424)
21. **Rajeshwara N. Achur.**, Agbor-Enoh, S.T. and Gowda, D.C. (2006) Rat spongiotrophoblast-specific protein is predominantly a unique low sulfated chondroitin sulfate proteoglycan. *J. Biol. Chem.* 281, 32327-34. (ISSN: 1083-351X; Print: 0021-9258)

22. Gowda A.S, Madhunapantula S.V, **Rajeshwara N. Achur**, Valiyaveettil M, Veer BP, Gowda D.C. (2007) Structural basis for the adherence of *Plasmodium falciparum* infected erythrocytes to chondroitin 4-sulfate and design of novel photoactivable reagents for the identification of parasite adhesive proteins. J. Biol. Chem. 282, 916-928. (ISSN: 1083-351X; Print: 0021-9258)
23. Muthusamy A, **Rajeshwara N. Achur**, Valiyaveettil M, Botti JJ, Taylor DW, Leke RF, Gowda DC. (2007) Chondroitin Sulfate Proteoglycan but Not Hyaluronic Acid Is the Receptor for the Adherence of *Plasmodium falciparum*-Infected Erythrocytes in Human Placenta and Infected Red Blood Cell Adherence Up-Regulates the Receptor Expression. Am J Pathol. 170(6), 1989-2000. (ISSN: 0002-9440)
24. Madhunapantula SV, **Rajeshwara N. Achur**, Bhavanandan VP, Gowda DC. (2007). The effect of substitution of the N-acetyl groups of N-acetylgalactosamine residues in chondroitin sulfate on its degradation by chondroitinase ABC. Glycoconj J. 24(8), 465-473. (ISSN: 0282-0080; Print: 1573-4986)
25. Madhunapantula SV, **Rajeshwara N. Achur**, Gowda DC. (2007). Developmental stage- and cell cycle number-dependent changes in characteristics of *Plasmodium falciparum*-infected erythrocyte adherence to placental chondroitin-4-sulfate proteoglycan. Infect Immun. 75(9), 4409-4415. (ISSN: 1098-5522; Print: 0019-9567)
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28. Achur RN, Kakizaki I, Goel S, Kojima K, Madhunapantula SV, Goyal A, Ohta M, Kumar S, Takagaki K, Gowda DC. (2008). Structural interactions in chondroitin 4-sulfate mediated adherence of *Plasmodium falciparum* infected erythrocytes in human placenta during pregnancy-associated malaria. Biochemistry. 47(47), 12635-12643. (ISSN: 1520-4995; Print: 0006-2960)
29. Prashith Kekuda T.R, Sudharshan S.J, Chinmaya A, Valleesha N.C, Syed Murthuza, **Rajeshwara N Achur**. (2009). Central nervous system (CNS) depressant and Analgesic activity of methanolic extracts of *Coscinium fenestratum* Colebr. and *Nardostachys jatamansi* DC. Journal of Pharmacy Research. 2(11), 1716-1719. (ISSN: 0974-6943)
30. Sudharshan SJ, Chinmaya A, Valleesha NC, Prashith Kekuda TR, **Rajeshwara N Achur** and Syed Murthuza (2009). Central Nervouse System (CNS) depressant and analgesic activity of methanolic extract of *Drypetes roxburghii* Wall in experimental animal model. Research J. Pharm. and Tech. 2 (4), 854-857. (ISSN: 0974-360X; Print: 0974-3618)
31. S.J. Sudharshan, A. Chinmaya, N.C. Valleesha T.R. Prashith Kekuda, **Rajeshwara N Achur**, M.L. Sujatha, Namitha C. Yadav, S.V. Praveen Kumar. (2009) Studies on Larvicidal, Anthelmintic and Antimicrobial efficacy of *Putranjiva roxburghii* Wall (Putranjivaceae). Natural Products: An Indian Journal 5(4), 210-214. (ISSN: 0974-7508)
32. A. Chinmaya, S.J.Sudharshan, N.C. Valleesha, T.R. Prashith Kekuda, **Rajeshwara N Achur** and Syed Murthuza. (2009). Invitro Antioxidant Activity of *Putranjiva roxburghii* Wall Seed by DPPH Radical Scavenging Activity; Natural Products: An Indian Journal 5(3), 140-142. (ISSN: 0974-7508)
33. A Chinmaya, S.J Sudharshan, N.C. Valleesha, T.R. Prashith Kekuda, **Rajeshwara N Achur**, Syed Murthuza, S.V. Praveen Kumar. (2009). Phytoconstituents and Antioxidant Activity of *Drypetes roxburghii* Wall, *Coscinium fenestratum* Colebr and *Nardostachys jatamansi* DC: Global Journal of Pharmacology. 3(1), 53-58. (ISSN: 2221-3449; Print: 1992-0075)
34. S.J Sudharshan, N.C. Valleesha, A., Chinmaya, T.R. Prashith Kekuda, Syed Murthuza, and **Rajeshwara N Achur** (2010). Radical scavenging activity, Phenol and Flavonoid content of selected traditionally used Indian medicinal plants. Asian J. of Experimental Sciences, Vol 24 (1) 11-15. (ISSN:0971-5444)
35. **Rajeshwara N. Achur**, Freeman WM, Vrana KE (2010). Circulating cytokines as biomarkers of alcohol abuse and alcoholism. J Neuroimmune Pharmacol. 5(1), 83-91. (ISSN: 1557-1904; Print: 1557-1890)
36. Goel S, Valiyaveettil M, **Rajeshwara N. Achur**, Goyal A, Mattei D, Salanti A, Trenholme K.R, Gardiner D.L, Gowda D.C. (2010). Dual stage synthesis and crucial role of cytoadherence-linked asexual gene 9 in the surface expression of malaria parasite var proteins. Proc. Natl. Acad. Sci. U S A. 107(38):16643-48. (ISSN: 0027-8424)

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41. Shashiraja Padukone, Shivakumar R Veerabhadraiah, and **Rajeshwara Achur** (2012) Need for PCR Analysis in Assessing Severe Malaria Infections with *Plasmodium vivax*. *Journal of Pancreas*. 13(3):322. (ISSN: 1590-8577)
42. Ravindra Puttaswamy, and **Rajeshwara N. Achur** (2013). The medicinal value of *Memecylon umbellatum* leaf extract. *Journal of Pharmacy Research* 6: 447-451. (ISSN: 0974-6943)
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44. S. Yallappa, J. Manjanna, S. K. Peethambar, **A. N. Rajeshwara** and N. D. Satyanarayan (2013) Green Synthesis of Silver Nanoparticles Using *Acacia farnesiana* (Sweet Acacia) Seed Extract Under Microwave Irradiation and Their Biological Assessment. *Journal of Cluster Science* 24: 1081–1092. (ISSN: 1572-8862; Print: 1040-7278)
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