

Dr. RAJESHWARA ACHUR - CURRICULUM VITAE

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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:

- 2007- Present:** Associate Professor, Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka, India.
2006-2007: Research Associate, Department of Pharmacology, Pennsylvania State University College of Medicine, Hershey, PA
2002-2006: Post-doctoral scholar, Dept. of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, USA
1998-2001: Post-doctoral fellow, Dept. of Biochemistry, Georgetown University Medical Center, Washington, DC, USA

Teaching Experience:

- 2007-Present:** Teaching biochemistry - Department of Biochemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka State, India.
1995-1998: As a visiting faculty taught organic chemistry - Dept. of Chemistry and Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta, Shimoga, Karnataka State, India.
1994-1998: As a permanent faculty taught chemistry – Govt. College for girls, 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).
1987-1988: As a non-tenure faculty member taught organic chemistry – Dept. of post graduate studies and research in chemistry, University of Mysore, India.

Research:

- 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
- 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. Studies on biodegradation of domestic paints.
 - m. Synthesis of fungicide conjugated silver nanoparticles and their potential against anthracnose disease in mango

- 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: Structural characterization of placental proteoglycans and delineating the details of host-malaria parasite interactions
- 1989-2004 Isolation, purification, biochemical characterization and thermal stability studies of lipases from rice bran and wheat germ.

Funded Research Projects:

- 2011-2017: 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

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-mentor)	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 Dalz.</i> and their Characterization	2009-2015
7	M.E. Veena	Isolation and characterization of pharmacologically active components from <i>Cryptocarya stocksii</i> and <i>Nardostachys jatamansi</i>	2009-2017
8	Shivuprasad (co-mentor)	Phenological and Biochemical Changes associated with Off-season flowering and regular bearing habits in Mango	2012-2016
9	Kiran Kumar D	Studies on Epidemiology of Malaria in Mangalore	2013-2017*
10	Shiny Joy	Malaria in Mangalore city: Parasite genetic diversity and drug resistance	2013-2017*
11	Madhusudana	Biochemical studies on the nature of response of cucurbits against melon fly infestation	2013-2017*
12	Punnath Kishore	Studies on the Pathophysiology of Malaria in Mangalore	2015-
13	Valleesha N.C	Prevalence, severity and biochemical analysis of pregnancy associated malaria in Mangalore	2015-
14	Kipto Geoffry (foreign)	Isolation, Purification and Characterization of Marine Fungal Lipase.	2015-
15	Praveen Kumar	Quinoline and Benzofuran analogues as potential anticancer agents	2015-
16	Ravi Kumar	Studies on Biodegradation of Domestic Paints	2015-
17	Raghavendra	Synthesis of fungicide conjugated silver nanoparticles and their potential against anthracnose disease in mango	2016-

* Thesis in preparation.

Guidance of M.Sc. Student's projects:

Sl. No.	Name	Title	Year
1	MEGHA S.R, SHILPA K, SHARADA. A.T SHWETHA H.R	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	NMARATHA. 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	Free radical scavenging potential and Anticancer	2013-14

	NADHEESHA T G	activity of <i>Lawsonia Inermis</i> and <i>Glycyrrhiza glabra</i>	
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 INSILICO study and identification of antifungal activity with special characterization on stem extract of <i>cissus quadrangularis</i>	2014-15
20	POTRI VENKATESH 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 resistance in Malnad Gidda cow	2015-16
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 α S1-Casien gene in Malnad Gidda cow	2016-17
30	MONICA B. N	Biochemical and molecular analysis of fruit acidity in Mango	2016-17

Membership in professional bodies:

- a. Society of Biological Chemists, India
- b. Society for Educational and Scientific Research
- c. Editorial board member of Universal Journal of Pharmaceutical Research
- d. Chairman, Institutional Ethical Committee, Shimoga Institute of Medical Sciences, Shimoga

Reviewer for the international journals:

- Chemical Biology and Drug Design,
- Letters in Drug Design and Delivery,
- Human and Experimental Toxicology
- Universal Journal of Pharmaceutical Research

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 2003 meeting at 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 20-25th, 2013, New Orleans, Louisiana, USA, Keystone Symposia Global Health Series, Supported by the Bill and Melinda Gates Foundation and Medicines for Malaria Venture.

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 2nd 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 16-21st 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 2-3rd April 2012 at Kuvempu University, Shimoga, Karnataka.
7. Indo-US seminar cum workshop on “Malaria Research Training” on 5-6th Feb 2013 at Mangalore, Karnataka.
8. Health Sciences Research Day on 18th July, 2014 at Kuvempu University, Shimoga, Karnataka.
9. National seminar on “Human diseases: Current advances in understanding the molecular mechanism and therapy” on 17th April 2015 at Kuvempu University, Shimoga, Karnataka.

10. National Seminar on “Advances and Challenges in Biological Research” held on 17th March 2016 at Kuvempu University, Shimoga, Karnataka.
11. International Conference on "Malaria in Global Health" held during 17-18th March, 2017 in collaboration with K.S. Hegde Medical Academy, Mangalore, Karnataka.

External adjudicator of Ph.D thesis

Evaluated more than 15 Ph.D theses in various disciplines from the following institutions:

1. University of Mysore, Mysore, Karnataka
2. Acharya Nagarjuna University, Andhra Pradesh
3. Sri Venkateswara University, Tirupati, Andhra Pradesh
4. Sri Krishnadevaraya University, Andhra Pradesh
5. University of Calicut, Kerala
6. Prist University, Thanjavur, Tamilnadu
7. Karpagam University, Tamilnadu

Participative Experience in Academic Meetings during 2008-present

Sl. No	Seminar/Conference	Organizer and Date(s)	Title of the Paper Presented	Remarks
01	35 th Annual meeting of the Indian Immunological Society at Institute of Life Sciences, Bhubaneswar, Orissa.	12-14 th December, 2008, Organized by the Indian Immunological Society	<i>Plasmodium vivax</i> malaria in Southwestern Karnataka	Invited Talk
02	National symposium CHEMEXCEL-2009, Davangere	06-03-2009, Organized by Bapuji Institute of Engineering and Technology	Studies on antimicrobial activity of critically endangered medicinal plant <i>N. Jatamansi</i>	Poster
03	5 th MIM Pan-African Malaria Conference, Nairobi, Kenya.	2-6 th November 2009, at Kenya Medical Research Institute,	Dynamics of <i>P. falciparum</i> and <i>P. vivax</i> infection in highly endemic region of south-western India	Invited Talk
04	National seminar on “Impact of Microbes on Health”	February 27-28, 2010, organized by the Dept. of Microbiology, Kuvempu University, Shimoga	---	Participation
05	Recent Trends in Chemical and Biological Sciences	30-31 st March, 2010, Organized by the Dept. of Chemistry, Kuvempu University.	Burden of Malaria	Invited Talk
06	Refresher course in Biology for Pre-University Lecturers organized by the Govt. of Karnataka, Pre-University Education Board.	27-11-2010 at J.C.B.M College, Sringeri, Chikkamagalur Dist.	Recent Advances in Immunology	Invited Talk

07	Refresher course in Biology for Pre-University Lecturers organized by the Govt. of Karnataka, Pre-University Education Board.	17-12-2010 at Jain Residential College, Jakkasandra, Kanakapura Taluk, Ramanagar (Dist)	Recent Advances in Immunology	Invited Talk
08	International Symposium on Challenges in Drug Discovery Programme - 2011 conducted by the Karnataka State Open University, Mysore.	February 16-17, 2011	Assessment of <i>Plasmodium falciparum</i> malaria prevalence in the Mangalore region of Karnataka	Invited Talk
09	Seminar series-2011 on "Aging, Secondary ageing Lifestyle Diseases & Medicinal Foods: Cures for All Diseases"	March 24-25, 2011 organized by the Dept. of Biochemistry, Davangere University, Shivangotri, Davangere.	Etiology of Malaria Disease	Invited Talk
10	Invited speaker at the National seminar on "Role of Microbes: Past, Present and Future"	March 28-29, 2011 organized by the Dept. of Microbiology, Kuvempu University, Shimoga	<i>Plasmodium falciparum</i> 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 st 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 th 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 th -29 th March, 2012	Use of Radio isotopes in Medicine	Resource person
15	New Frontiers in Animal Science	April 9-10 th , 2012, Dept. of Zoology, Kuvempu University	-----	Session Chair
16	Indo-US Symposium on Molecular Pharmacology and Applied Therapeutics	6-7 November, 2012, JSS University, Mysore	Pregnancy Malaria	Invited Speaker
17	Keystone Symposium on Malaria – Awarded Travel grant by the Bill and Melinda Gates Foundation	Supported by the Bill & Melinda Gates Foundation. At J.W. Marriott, New Orleans,	A Scenario of Urban Malaria in Southwestern India: A Study from Mangalore city	Poster presentation

		Louisiana, USA, during Jan 20-25, 2013.		
18	Post graduate department of studies and research in biotechnology, Sahyadri science college (autonomous), Shimoga	UGC sponsored two days national conference on “biotechnology in health care: from bench to bedside” 27 th & 28 th , September, 2013	The current scenario of untenable malaria	Invited Talk
19	School of Life Sciences, Manipal University, Manipal	2 nd Annual meeting of Society of Biological Chemists (I), Coastal Karnataka Chapter on 26 th October 2013	Pregnancy Malaria	Invited Talk
20	National seminar on “Pharmaceutical approach for malarial targeting and resistance”	February 14-15, 2014, Department of Pharmaceutics, JSS College of Pharmacy, Ooty-643001.	Sustained burden of malaria in Mangalore	Invited Talk
21	Karnataka Veterinary, animal and Fisheries Sciences University, Bidar	Workshop on” Intellectual Property Rights” held on 4 th July 2014, Veterinary College, Shimoga,	Training the Trainer	Participated
22	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
23	Society for educational and scientific research, Kumarakom, KERALA, (advisory committee member)	“International conference on Biosciences: State of the art advancements” held on 11-12 September, 2014	Assessment of <i>p. Vivax</i> malaria severity in Mangalore	Invited talk
24	Department of Microbiology, Sahyadri Science College, Shimoga	One day state level seminar on “ Emerging trends in Microbiology: issues and Challenges” Held on 31 st March, 2015.	Integration of Chemistry and Biology: understanding the mechanism of pregnancy malaria	Invited talk
25	Cliniminds, Institute of health sciences training and management at Shimoga Institute of Medical Sciences, Shimoga, Karnataka, India	ICH-GCP workshop on clinical research, 7 th May, 2016.	-----	Participant

26	Dept. of Biochemistry, Sahyadri Science College, Shimoga, Karnataka	One day state level conference on "A contemporary biochemistry in health and diseases" on 10 th March, 2017	Nanomedicine: The future medicine	Invited Talk
27	K.S.Hegde Medical Academy, Mangalore (NITTE University)	International Conference on "Malaria in Global Health" Held during 17-18 th march 2017	Prevalence, Seasonal variation, and Dynamics of Malaria Infection among native and non- native population in Mangalore, Karnataka.	Invited Talk

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.**, Valiyaveetil, 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.**, Valiyaveetil, 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. Valiyaveetil, 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., Valiyaveetil, 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.**, Valiyaveetil, 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)
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