

Biodata of Prof.K.R.S.Sambasiva Rao

Name : Dr.K.R.S.Sambasiva Rao

Present Position : **Rector, Acharya Nagarjuna University**
(since October, 2014)
(**Vice-Chancellor i/c during April-August, 2015**)

Date of Birth & Age : 15-8-1958; 58 years and 6 months

Academic position and Address: Professor and Chairman, BOS
and Address Department of Biotechnology
Acharya Nagarjuna University
Nagarjunanagar – 522 510, Guntur, A.P.
Phone - +91-863-22346103 (O), 2233433 (R)
Mobile - +91 – 9440869477
Email – krssrao@yahoo.com

Previous Positions held

- Professor - August 2005 to Till date (11 Years & 9 months)
- Adjunct faculty at INDICASAT, Panama - Oct. 2010 to 2016
- Visiting Scientist , VCU Medical College, USA - April to May 2005
- Visiting Scientist at Gottingen Univ. Germany - May to Aug. 2004
- Visiting Scientist, Emory Medical School, USA- Dec. 1999 to April 2000
- Associate Professor - July 1998 to August 2005
- Asst. Professor - 1988 to July 1998

Research Guidance - Research Supervisor at Dr.NTR University of Health Sciences,
Vijayawada in Genetics, Biotechnology, Biochemistry

Other Positions

- Chairman, Ethical Committee, NRI Medical College
- Chairman, Ethical Committee, Katuru Medical College
- General Secretary, Association of Biotechnology and Pharmacy
- Editor, Current Trends in Biotechnology and Pharmacy
- Chairman, BOS in Zoology, Acharya Nagarjuna University, India
- Chairman, BOS in Biotechnology, MG University, Nalgonda, India
- Member, PG BOS in Biotechnology, SVIMS, Tirupathi, India
- Member, BOS Biotechnology, Rayalaseema University, Kurnool
- Member, PG BOS in Biotechnology, Berhampur University, Orissa
- Member, BOS in Biotechnology, Dravidian University, Kuppam, India
- Member, PG BOS Biotechnology, SK University, Anantapur, India
- Member, PG BOS Biotechnology, Bharathidasan Univ, Tiruchi
- Member, BOS in Animal Biotechnology, SV University, Tirupathi, India
- Member, UG BOS in Bioinformatics, Acharya Nagarjuna University, India
- Member, BOS in Engineering Biotechnology, Acharya Nagarjuna University

Education: - **D.Sc. Biotechnology** Berhampur University, India
-**Ph. D. Pharmaceutical Sciences**, Andhra University, Vizag, India
-**Ph. D. Zoology**, S.V.University, Tirupathi, India
-**M. Sc. Information Technology** Acharya Nagarjuna University
-**MBA Clinical Pharmacy**, ISMT, Bangalore, Intl. Business School
-**M. Sc. Zoology**, Bhopal University, Bhopal, India
-**PG Cert. in Statistics**, Nagarjuna University, India
-**PG Dip. in Comp. Appns.**, Madurai Kamaraj Univ. Madurai
-**M.A. Sociology**, Annamalai University, Tamilnadu, India

Important Academic Assignments

- Established International Academic program for offering PhD in Biotechnology with INDICASAT, Republic of Panama
- Responsible for signing MoU and Established Twinning programs of MS Biology with University of West Georgia
- Establishment of PhD and Masters programs in Computer Applications, Statistics, Management with EASTAC, Tanzania (an institute for 18 African Countries)
- Signing MoU with Universities at Normal University, Jilin Agricultural University, Jilin Jiang University, Changchun, China
- Responsible for signing MoU with Universities at Ethiopia (Axum University, Ambo University)
- Established International Language Cell at Acharya Nagarjuna University (Japanese, Chinese and Arabic)
- Responsible signing MoU with many industries relating to Biotechnology, Pharmacy and Aquaculture and with many National Research Laboratories and Research Institutes in ANU

Abroad Visits

- Worked as a Visiting Scientist at Dept. of Biochemistry, Emory University, Atlanta, USA on automated DNA sequencing and micro array technology at DNA Sequencing Core Facility, Emory University during Dec. 1999 to April 2000
- Visited Australia and participated in Bioavailability 2001 and visited CSIRO Land and Water and University of Adelaide in November 2001
- Visited School of Environmental Sciences and Management, Pokhara University, Khatmandu, Nepal and delivered a lecture in June, 2002
- Worked as a Visiting Scientist at Dept. of Molecular Wood Biotechnology, Georg-Augusta Gottingen University, Germany and worked on cloning and Expression of laccase genes in *Coprinus cinereus* and purification and characterization of laccases during May to August 2004
- Worked as a Visiting Scientist at Virginia Commonwealth University, Richmond, USA and worked on Molecular Signal Transduction in smooth muscles during April-June, 2005
- Visited and worked as a Adjunct faculty at INDICASAT, Republic of Panama during October, 2010, during April-May, 2011, 2012 and 2013.
- Visited as a member of Committee deputed by ANU for academic collaboration with Institutes and Universities in Tanzania and Ethiopia during January-February, 2015
- Visited China as a member of Committee deputed by ANU for academic collaboration with Institutes and Universities in China during June, 2016

Academic Programs Developed

- Responsible for Development of MSc Biotechnology, MTech Biotechnology, MSc Nanobiotechnology courses at ANU
- Responsible for Development of MSc Animal Biotechnology
- Responsible for development of MSc Aquaculture, PG Diploma in Sustainable Aquaculture, Certificate Course in Aquaculture
- Responsible for Development of Innovative programs in Pharmaceutical Biotechnology

Subjects taught: Biochemistry, Physiology, Animal Biotechnology, Cellular Molecular Biology, Environmental Science, Aquaculture

Research areas: Environmental Toxicology & Physiology, Environmental & Aquaculture Biotechnology, Fermentation Technology

International Conferences Attended

- Participated in Bioavailability 2001 in Adelaide, Australia, organized by CSIRO, Australia (2001)
- Participated in FASEB Annual Meeting and the XXXV International Congress of Physiological Sciences at San Diego, CA USA, organized by FASEB during April 2-6 (2005)
- Participated in 3rd International Conference on Medicinal Plants and Herbal Products, held at University of Colombo, Sri Lanka during 19-21 December (2011)

Research Experience

- 35 Years of Research Experience in the fields of Environmental Toxicology & Physiology, Environmental & Aquaculture Biotechnology, Fermentation Technology
- During the stay at DNA Sequencing Core Facility, Emory University, Atlanta, USA research work has been carried out in the fields of Gene Chip Technology and DNA Sequencing during December 1999 to April 2000
- During the stay at Wood Biotechnology Divin, Georg-Augusta University of Gottingen, worked on cloning and expression of laccase genes in fungal species *Coprinus cereus* during May to August, 2003
- At Dept. of Physiology and Medicine, Virginia Commonwealth University, USA worked on Molecular Signal Transduction Mechanisms in smooth muscles during April to July, 2005.
- Presently continuing research in the field of Biotechnology relating to Molecular Biology, Environmental Biotechnology, Fermentation Technology and Aquaculture Biotechnology

Research Guidance

: 22 Ph. Ds. and 20 M. Phil(s) & 7 Ph.Ds. under process

Projects Ongoing and Completed

1. UGC Project on Prostate Specific antigen – A New Diagnostic Marker for Breast Cancer
2. DBT Project Studies on Isolation, Cloning and production of industrially important Cold adaptive Enzymes from Marine Extremophiles
3. UGC Project Analysis and production of a constructed multifunctional chimeric thrombolytic therapeutic molecule
4. DST Project Biodiversity of subterranean ground-waters of India, with special reference to Copepoda and Bathynellacea (as Co-investigator)
5. Completed one UGC-Minor Research Project – Studies on Predator-Prey relationship in Fish culture ponds
6. Completed one UGC-Minor Research – Studies on anti-oxidative mechanisms in toxicity induced animals
7. DBT project Neem seed powder unit and Neem trees plantation and Maintenance to increase the earnings of SC/ST population in Tenali Mandal (as Co-investigator)

Projects completed with private Industry:

1. One Project has been undertaken with Aqua Prime, Nellore in investigating the diagnosis and control of ADS
2. One project has been undertaken with Shrimp Care Centre, Nellore in investigating genetic variants of WSSV

Research Publications:	Research papers -	224
	Patent Filed -	7
	Gene Bank Submissions -	6
	General Scientific articles -	23
	Papers presented in symposia -	67
	Books as Author/coauthor/editor/ contributions in books	15
	Books written to CDE as Editor	10

Sambasiva Rao K.R.S. Goole Scholar Citations & Research Gate

Citation indices	Google Scholar	Research Gate
Citations	4060	1797
(with KRS Sambasiva Rao 2601)		
h-index	31	RG Score 34.76
i10-index	105	Reads 15,149

Popular Books:

- Biologically Important Quinazoline “Ones” and “Thions”** Theivendren Panneer Selvam, K.R.S. Sambasiva Rao and Bhaskara R. Jasti, Lambert Academic Publishing, Germany (2013)
- Endemic Diseases of Litopenaeus vannamei and Panaeus monodon in India** A.Ravi Kumar and K.R.S.Sambasiva Rao, Lambert Academic Publishing, Germany (2013)
- A Text Book on Regenerative Medicine: Stem cells and their applications,** KRSS Rao and KA Krishna, IK International, New Delhi, India (2010)
- A Text Book of Aquaculture,** M.S.Reddy and KRS Sambasiva Rao, Discovery Publishing House, New Delhi, India (1999)
- Current Trends in Indian Education** DB Rao and KRSS Rao, Discovery Publ. House, New Delhi (1996)
- Advanced Biotechnology** DB Rao, D.Harshitha and K.R.S. Sambasiva Rao, Editors, Discovery Publishing House, New Delhi (1990).
- Pesticide Impact on Fish Metabolism** Sambasiva Rao, K R S, Discovery Publishing House, New Delhi (1999)
- Biotechnology Text Book,** Telugu Akademy, Hyderabad (2010)
- Emerging Trends in Biomedical Research,** Department of Biotechnology, ANU (2010)
- Zoology Text Book** Telugu Akademy, Hyderabad, (2010)
- Emerging Trends in Modern Biology** Centre for Biotechnology, ANU (2009)
- Contributor for "**Teaching of Biology**" for B. Ed. Course, Nagarjuna Publishers, Guntur (1994)
- Contributor for NCERT, Govt.of India, New Delhi, **Source book on Aquaculture** (1996)
- Contributor for NCERT, Govt. of India, New Delhi,
- Source book on Environment** (1996) **KK Pulicherla** and KRS Sambasiva Rao- a chapter on "Psychrozymes: Marine Biocatalysts and their stability in a book publishing by **Oxford Press** (2013).
- KK Pulicherla** and KRS Sambasiva Rao- a chapter on "Marine Psychrophiles - Source of Future Industrial Enzymes" in a book publishing by **Lambert Academic Publishing, Germany** (2013).
- Edited 10 Books in Centre for Distance Education for PG Diploma in Biotechnology and Bioinformatics of AcharyaNagarjunaUniversity
- 4 Books -**B.Sc. Biochemistry and B.Sc. Zoology** books

Membership in Editorial Board of Journals:

- Editor, Current Trends in Biotechnology and Pharmacy
- Associate Editor, International Journal of Pharmacology and Biological Sciences
- Member Editor, Journal of Applied Biosciences
- Member Editorial Board, Research Journal of Biological Science
- Member Editorial Board, Bioscan
- Member, Editorial Board, International Journal of Pharmagenesis
- Member Editorial Board, The Journal of Genetics

Reviewer for Journals

- Applied Biochemistry and Biotechnology
- Process Biochemistry
- Bioresource Technology
- African Journal of Biotechnology
- Iranian Journal of Biotechnology

Awards/Fellowships Received:

- Fellow of Association of Biotechnology and Pharmacy
- Elected Fellow of Andhra Pradesh Akademy of Sciences
- Received Panama National Award from Republic of Panama for service in education and research in Panama
- Received Talented Biotechnologist Award at ISCEPH, University of Colombo, Sri Lanka
- Best Research Article Award from Intas Polivet published in 2004, vol.5(2), 87-93
- Honorary Fellow of Society for Regenerative Medicine
- Honorary Fellow of Society for Applied Biotechnologists
- Lion's International President Appreciation Award for 2007-08 from Lions Club International, USA for participating in Lions activities
- Received AP State Best Teacher Award for the year 2013

Professional Positions

- ❖ General Secretary, Association of Biotechnology and Pharmacy
- ❖ Hon. Secretary, Andhra Pradesh Akademi of Sciences
- ❖ Vice-President of Indian Society of Comparative Animal Physiology (ISCAP)
- Hon. Secretary, Andhra Pradesh Akademi of Sciences
- ❖ Vice-President, Akshara, Scientific Voluntary Organization
- ❖ Member, Scientific Advisory Committee, Nireekshana (NGO) working on the molecular aspects of infectious diseases, Hyderabad

Membership in Professional bodies

- Life member, Asian Fisheries Society, Philippines
- Life member, Asian Fisheries Society, Indian branch, Mangalore
- Life member, Indian Science Congress Association
- Life member, Assoc. for Indian Society for Comparative Animal Physiologists, India
- Life Member, National Oil Palm Research Association, India
- Life Member, Indian Assoc. for Nuclear Chemists and Allied Sciences (IANCAS), India
- Life Member, Indian Society of Applied Biology, Lucknow, India
- Life Member, Biotech Research Society of India, Trivandrum, India
- Life Member, Association of Biotechnology and Pharmacy
- Life Member, Society for Science and Environment
- Life Member, Society for Biotechnologists (India)

Consultancy activities

- 1) Consultant on honorary basis to SPC Biotech Private Limited, Hyderabad in handling the projects related to Biopolymers and Biofuels with ecofriendly nature
- 2) Consultant on honorary basis to BMR Industries Pvt Ltd., Nellore in handling the projects related to Hatchery and Farm management
- 3) Consultant on honorary basis to Alpha Hatcheries Pvt. Ltd., Nellore in handling the projects related to Hatchery management

Extension activities

- Lions Mega service Camp for the Establishment a Permanent Project of Lions Blood Bank for serve the Poor and Needy People as committee member
- Lions Mega service camp conducted on 15-08-2007 for distribution of Sewing Machines and wet Grinders for 1000 poor women under self employment scheme.
- Lions Mega Eye camp for screening and operations for poor and needy people participated nearly 1200 people and screened 1200 people and distribution of medicines and spectacles to 620 poor people and 148 cataract surgeries conducted on 20-09-2007
- Participated in Mega Medical Camp on 01-07-2008 conducted by Zed Foundation, about 650 people participated and distribution of medicines was performed at Tenali
- Zed Foundation Conducted a Green Revolution camp on 05-6-2008 to 12-6-2008 and performed 16000 Tree plantation at different areas of Guntur district

Seminars, Conferences, Symposia and Workshops organized

- National Seminar on Environmental Biotechnology during 21-23 December 2002
- National Seminar on Modern Biology during 28-30 August, 2003
- National symposium on Regenerative Medicine and Tissue Engineering during 28-29 April, 2004
- National Seminar on Bioprocesses and Production Technologies during 21-23 December, 2004
- National Seminar on Aquaculture Biotechnology during 17-18 December, 2005
- Annual Convention of Andhra Pradesh Akademi of Sciences and symposium on Agricultural, Pharmaceutical and Environmental Biotechnology during 22-23 February, 2005 at Bapatla Engineering college
- Public Debate on Biotechnology on 21st February, 2005
- National Seminar on Cord Blood Stem Cells and their applications, Oct. 18-20, 2007
- Annual Convention of Association of Biotechnology and Pharmacy and National Seminar on Pharmacy and its scope and perspectives, 6-7 December, 2007
- National Seminar on Emerging Trends in Modern Biology, 18-20 October, 2008
- Annual Convention of Association of Biotechnology and Pharmacy and National Seminar on Pharmacogenomics & its applications in Drug Discovery, Jan.24-25, 2009
- International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, December 19-21, 2009
- National Seminar on Biomedical Applications of Nanobiotechnology, February 5, 2010
- Seminar on 'Awareness on Bt crops and their Significance April 14, 2010
- National Seminar on Recent Trends in Biotechnology September 24-26, 2011
- Andhra Pradesh Akademi of Scienc. Young Scientist Convention-2011 Oct. 27-28, 2011
- International Symposium on Innovations in Free Radicals Research and Experimental Therapeutics & 5th Annual Convention of ABAP held at Karunya University, Coimbatore, during 7-9 December, 2011
- International Conference on Environmental Impact and Therapeutic Challenges & 6th Annual Convention of ABAP held at SV University, Tirupathi, during 20-22 Dec., 2012
- Andhra Pradesh Science Congress-2012 at AcharyaNagarjunaUniversityNovember 14-16,2012
- International Conference on Plant Biotechnology, Molecular Medicine and Human Health & 7th Annual Convention of ABAP at University of Delhi during 18-20 Oct., 2013
- International Conference on Emerging Challenges in Biotechnology, Human Health and Environment & 8th Annual Convention of ABAP at University of Delhi during 18-20 Dec., 2014.
- International Conference on Recent Adavances in Biosciences and Applications of Engineering in Production of Biopharmaceuticals& 9th Annual Convention of ABAP at KL University during 14-16 Dec. 2015

Refresher Courses

- UGC-Refresher course in Biotechnology during 11-11-2002 to 1-12-2002
- UGC-Refresher course in Biotechnology during 26-12-2003 to 15-1-2004
- UGC-Refresher course in Biotechnology during 21-12-2005 to January 10, 2006
- UGC Interdisciplinary Refresher course in Pharmaceutical Science during 22-12-2014 to January 11, 2015.

Workshops organized

- ❖ Workshop on Molecular Biology & Immunology during 19-21 August, 2005
- ❖ Workshop on Advances in Molecular Biology during 29-31 July, 2006
- ❖ Workshop on Cell culture and Stem Cell culture Techniques, 29, 30 September and 1 October, 2008
- ❖ BRNS-IANCAS Workshop on Applications of Radiation Biology and Chemistry during 2-10 February, 2004
- ❖ Workshop on Cell culture Techniques in collaboration with SR Biotechnology, Bangalore during 30th September to 1st October, 2008
- ❖ National Workshop on SAS and its Applications in Pharmacy and Biotechnology March 10-15, 2010
- ❖ DST- Awareness Program on Coastal Aquifer Monitoring and Management 19-24 June, 2012.

(K.R.S. SAMBASIVA RAO)

Research Papers Published

224. Vijaya R. Dirisala, Rahul R. Nair, Krupanidhi Srirama, Prakash Narayana Reddy, **K. R. S. Sambasiva Rao**, N. Satya Sampath Kumar, Giridhar Parvatam. Recombinant pharmaceutical protein production in plants: unraveling the therapeutic potential of molecular pharmin. *Acta Physiol Plant.* 39:1-9 DOI 10.1007/s11738-016-2315-3 (2017).
223. Sudheer Kumar Buddana, Prakasham Reddy Shetty and **Sambasiva Rao Raja Surya Krothapalli**. An endolytic mutanase from novel strain, *Paracoccus mutanoliticus*: Its application potential in dentistry. *Journal of Medical Microbiology.* 22 July, 2016 doi: 10.1099/jmm.0.000321 65: 985-991 (2016)
222. Anmol Kumar, KK Pulicherla, **KRS Sambasiva Rao**. Development and validation of an indirect competitive ELISA for quantification of recombinant staphylokinase in rabbit plasma: Application to pharmacokinetic study. *Journal of Immunoassay and Immunochemistry.* Volume 37(3): 228-242 (2016)
221. Vasupalli Naresh, Sunil Kumar Singh, , Anshul Watts, Pankaj Kumar, Vajinder Kumar, **K. R. S. Sambasiva Rao** and Shripad Ramachandra Bhat. Mutations in the mitochondrial *orf108* render *Moricandia arvensis* restorer ineffective in restoring male fertility to *Brassica oxyrrhina*-based cytoplasmic male sterile line of *B. juncea*. *Molecular Breeding.* 36:67 (2016)
220. V S Rama Krishna Ganduri, **KRS Sambasiva Rao**, Usha Kiranmayi M, Vijaya Lakshmi M and Sudhakar Poda. Production of Pullulan using Jaggery as substrate by *Aureobasidium pullulans* MTCC 2195. *Current Trends in Biotechnology and Pharmacy.* 10(2): 153-160 (2016)
219. Vijayasekhar, V.E., Satya Prasad, M., Suman Joshi, D.S.D., Narendra, K., Krishna Satya, A. and **Sambasiva Rao, K.R.S.** Assessment of phytochemical evaluation and in-vitro antimicrobial activity of *Cassia angustifolia*. *International Journal of Pharmacognosy and Phytochemical Research.* 8 (2) 305-312 (2016)
218. Sarojini Ch., Srinivasa Rao D and **K. R. S. Sambasiva Rao**, Partial Purification and Characterization of Alkaline Protease from *Penicillium Oxalicum* KRSS-S-FP10 Isolated from Beach Soil of Kaakinada, Andhra Pradesh. *Int J Recent Sci Res.* 7(2), 8957-8962 (2016).
217. Sarojini Ch. , D. Srinivasa Rao, **K. R. S. Sambasiva Rao**. Isolation and Molecular (RAPD) Identification of Alkaline Protease Producing Fungi from Dissimilar Soil areas of Andhra Pradesh. *Global Journal for Research Analysis.* 5(2): 7-10 (2016)
216. Shaik Mannur Ismail, **K. R. S. Sambasiva Rao**, Matcha Bhaskar. Evaluation of anti-inflammatory activity of *Boswellia serrata* on carrageenan induced paw edema in albino Wistar rats. *Int J Res Med Sci.* 4(7): 2980-2986. doi: 10.18203/2320-6012.ijrms20161989 (2016)
214. Jaya Lakshmi G, K Seetha Ram, G Ram Mohan, T Anand, P Narindra Kumar, BK Sreenivas Prasad, PVD Soujanya Kumari, P Balakota Reddy, JB Peravali and **KRSS Rao**. Site Directed Mutagenesis, Molecular Cloning and Expression of interleukin-17E to Generate Structural Variant with Enhanced Specific Activity Using Industrial Friendly Salt Inducible *Escherichia coli* GJ1158. *International Journal of Advanced Science and Technology* Vol.75, pp.11-20 (2015)

213.. K Sumi, Madhupriya, R.Manimekalai, GP Rao, **KRS Sambasiva Rao**. Identification and genetic relationships of phytoplasma strains infecting coconut, arecanut and oil palm in South India. *Indian Phytopathology* 68 (2) 207-214 (2015)

212. M.Chandrasekhar Reddy, K. Sri Rama Murthy, A. Srilakshmi, **K.R.S.SambasivaRao** and T.Pullaiiah. Photosynthesis of Ecogriendly Silver Nanoparticles and Biological Applications – A Novel concept in Nanobiotechnology. *African Journal of Biotechnology*, 14(3): 222-247 (2015)

211. S S Manikiran, N Rama Rao, **K R S Sambasiva Rao**, N L Prasanthi . A Study on Characterization of Lamivudine Loaded Bovine Serum Albumin Nanoparticles. *Inventi Rapid: NDDS*, (2): 1-7 (2015).

210. Vivek Kumar Singh, Vikrant Nain, Priyanka Sharma, **K R S Sambasiva Rao**, Ananta Birah, G P Gupta and P. A. Kumar. Enhanced Toxicity of Purified *Bacillus thuringiensis* Cry1Ac δ -endotoxin. *Current Trends in Biotechnology and Pharmacy* 243 Vol. 9 (3) 243-250 (2015)

209.P. Poli Reddy, J. Venkateshwar Rao and **K.R.S Sambasiva Rao**. Anti Ulcerogenic Activity of *Momordica Cymbalaria* In Rats. *Journal of Science*. Vol 5(5): 329-338 (2015).

Kasturi K, D S Mallika, S Jeevan Amos, V Pavithra & KRS Sambasiva Rao (2015) “Modeling and Docking studies on Seryl tRNA Synthetase of *P.falciparum* 3D7 as a Potential drug target” *Minerva Biotechnologica*, 26(3): 199-208 [IF: 0.379]

208. Latha G. Manju, K.V.Raman, S. Kumar, AK Singh, KC Bansal, **K.R.S.Sambasiva Rao** and T.Mohapatra. High frequency regeneration and transformation of indica rice variety Pusa Sugandh 2 (PS2). *ORYZA – An Int. J. Rice*. 51:24-33 (2014)

207.Shaik Mannur Ismail, Sudheer Aluru, **KRS Sambasiva Rao** and Bhaskar Matcha. Antimicrobial activity of frankincense of *Boswellia serrata*. *International Journal of Current Microbiology and Applied Sciences*. 3(10): 1095-1101 (2014)

206.Shaik Mannur Ismail, **KRS Sambasiva Rao** and Matcha Bhaskar. Anti.Inflammatory activity of *Boswellia serration* cotton pellet granuloma inflammation in Albino Wistar Rats. *Indian Journal of Comparative Animal Physiology*. 31: 1-9 (2014)

205. Ruben Berrocal, Velmarini Vasquez, **Sambasiva Rao KRS**, Bharathi S Gadad and Rao KS. α -Synuclein Misfolding Versus Aggregation Relevance to Parkinson’s Disease: Critical Assessment and Modeling. *Mol Neurobiol*. DOI10.1007/s12035-014-8818-2 (2014)

204. Kodavanti P.R.S., Royland J.E. and **Sambasiva Rao K.R.S.** Toxicology of Persistent Organic Pollutants. Reference Module in Biomedical Sciences. Elsevier. 15-Oct-14 doi:10.1016/B978-0-12-801238-3.00211-7 (2014)

203. Pavan Kumar Machiraju, Jagarlapudi A.R.P. Sarma, **K.R.S. Sambasiva Rao** and Rambabu Gundla. Pharmacophore Modeling and Virtual Screening Studies on Colony Stimulating Factor 1 Receptor (CSF1R) Inhibitors. *International Journal of Drug Design and Discovery*. 5(1): 1276-1284 (2014)

202. Ruben Berrocal, Padmaraju Vasudevaraju, Shantinath Satappa Indi, **Krothapalli Raja Surya Sambasiva Rao** and K.S. Rao. *In vitro* Evidence that an Aqueous Extract of *Centella asiatica* Modulates -Synuclein Aggregation Dynamics. *Journal of Alzheimer’s Disease Journal of Alzheimer’s Disease*, Vol. 39(2) (2014)

201. Kochubabu Sumi, Madhupriya, Shailender Kumar, Govind Pratap Rao and **Krothapalli R.S. Sambasiva Rao**, Molecular confirmation and interrelationship of phytoplasmas associated with diseases of palms in South India. *Phytopathogenic Mollicutes*, Vol. 4(2), 41-52 (2014).
200. Jaya Lakshmi G, Seetha Ram Kotra, JB Peravali, PPBS Kumar and K Raja Surya Sambasiva Rao, Molecular Cloning, High Level Expression and Activity Analysis of Constructed Human Interleukin-25 Using Industrially Important IPTG Inducible *Escherichia coli* BL21(DE3), *International Journal of Bio-Science and Bio-Technology*, 6(3):19-30 (2014)
199. Petkar Medha B, Pillai Meena M, Podha S, KRS Sambasiva Rao, Patil Pallavi S, Thakur Sae H. Treatment of Chronic Radiation Induced injury of Lymphocyte With Exogenously Added Superoxide Dismutase Purified From a Sewage Isolated *E Coli*. *International Journal of Scientific Research*. 3(10) : 41-44 (2014)
198. Shivarudrappa B. Bhairappanavar, B. Fakrudin and K.R.S. Sambasiva Rao. Inheritance Studies of Sterility Mosaic Disease (SMD) Resistance Cross Gullyal whitexBSMR736 in Pigeonpea (*Cajanus cajan* (L.) Millsp.). *Plant Gene and Trait*, Vol. 5 (4) 27-32 doi: 10.5376/pgt.2014.05.0004 (2014)
197. Vijayanand A, Ramya LN, K.K. Pulicherla and **KRSS Rao**. Cold active pectinases: Advancing the food industry to next generation. *Applied Biochemistry and Biotechnology*, Volume 172 (5), pp 2324-2337 (2014)
196. P. Satyanarayana, Farid Babu Meka, Rekha Kumari Dulala, Mrinmoy Ghosh, **K.R.S. Sambasiva Rao**, An epidemiological study on clinical profile of malaria in Rampachodavaram and Maredumilli the tribal belt of east Godavari, Andhra Pradesh, India. *Asian Pacific Journal of Tropical Diseases* (Elsevier Publication), 4: S221-S225 (2014).
195. Kasturi K., Mallika D.S., Jeevan Amos S., Pavithra V. and Sambasiva Rao K.R.S Computational Approach to Explore *Plasmodium falciparum* 3D7 Seryl tRNA Synthetase Structure, *Int. Res. J. Biological Sci.* Vol. 3(6), 29-40 (2014).
194. Kiran Lakkireddy, Sudhakar Podha, Krishna Satya A, Kasturi K, Sambasiva Rao KRS, Designer Zinc Finger Nuclease: A Versatile Tool for Genome Editing in Animals, *Research & Reviews :A Journal of Biotechnology*, 4 (1): 24-30 (2014).
193. Kiran Lakkireddy, Kasturi K., **Sambasiva Rao** K. R. S. Aflatoxins in Food and Feed : The Science of Safe Food, *Research & Reviews: Journal of Food Science and Technology*, 6 -11 (2014).
- Joish Madhusudhana Murthy, **Pathipati Usha Rani** and **K.R.S. Sambasiva Rao**. Organic-inorganic Hybrids of Nano Silica and Certain Botanical Compounds for their Improved Bioactivity Against Agricultural Pests. *Current Trends in Biotechnology and Pharmacy* 7 (2): 615-624 (2013).
192. Mrinmoy Ghosh, K.K. Pulicherla, V.P.B.Rekha and **K.R.S. Sambasiva Rao**. Optimization of process condition for lactose hydrolysis in paneer whey with cold adaptive β -Galactosidase from psychrophilic *Thalassospira frigidophilosprofundus*. *International Journal of Dairy Technology*. Vol. 66 (2): 256-263 (2013)

191. M. Ravi Kumar, M. Srinivasa Rao, K.K. Pulicherla, Mrinmoy Ghosh, M. Hemant Kumar, V.P.B.Rekha and **K.R.S. Sambasiva Rao**. Studies on the distribution of hepatitis B and human immunodeficiency virus (HIV) – their relation to blood groups and rhesus (Rh) factor in Guntur district of Andhra Pradesh, India. *Asian Journal of Pharmaceutical and Clinical Research*. Vol. 6 (1): 109-111 (2013).
190. KK Pulicherla, P Suresh Kumar, K. Manideep, V.P.B. Rekha, Mrinmoy Ghosh and **K. R. S. Sambasiva Rao** Statistical approach for the enhanced production of cold active β -galactosidase from *Thalassospira frigidophilosprofundus*: A novel marine psychrophile from deep waters of Bay of Bengal. *Preparative Biochemistry and Biotechnology* 43:8, 766-780 (2013)
189. V. P. B. Rekha, Mrinmoy Ghosh, Vijayanand Adapa, Sung-Jong Oh, K. K. Pulicherla and **K. R. S. Sambasiva Rao**. Optimization of Polygalacturonase Production from a Newly Isolated *Thalassospira frigidophilosprofundus* to Use in Pectin Hydrolysis: Statistical Approach. *BioMed Research International*, Hindawi Publishing Corporation Volume, Article ID 750187, 1-12. <http://dx.doi.org/10.1155/2013/750187> (2013)
188. **K.R.S.Sambasiva Rao**, N.K.Tripathy, Y. Mahalaxmi, R.S.Prakasham and D.Srinivasa Rao, Improved Production of Laccase and Peroxidase-Free Tyrosinase in *Streptomyces antibioticus*, *BioProcessing Journal*.13(2):46-54 (2013)
187. Y. Uma Mahesh, M. Murtha Rao and **K.R.S.Sambasiva Rao**, Effect of Harvesting Technique on Recovery Rate and *in vitro* development of Caprine Follicular Oocytes for *in vitro* Procedures. *Indian Journal of Animal Sciences*, 83(10): 1042–1047 (2013)
186. K K Pulicherla, Anmol Kumar, G S Gadupudi, Seetharam Kotra, **K R S Sambasiva Rao**. *In Vitro* Characterization of a Multifunctional Staphylokinase Variant with Reduced Reocclusion, Produced from Salt Inducible *E. coli* GJ1158. *Biomed Research International*. Vol. 2013, Article ID 297305, <http://dx.doi.org/10.1155/2013/297305> (2013)
185. Seetha Ram Kotra, N Prudvi, J B Peravali, Anmol Kumar, **K R S Sambasiva Rao** and K K. Pulicherla. Optimization of Media Components for the Over Production and Enhanced Fibrinolytic Activity of Recombinant Msak – RGD – Hirulog from *E.Coli* GJ1158. *International Journal of Bioscience and Biotechnology*, 5(3); 181-198 (2013).
184. Kotra Seetha Ram, Peravali J B, Anmol Kumar, **K R S Sambasiva Rao**, K K Pulicherla. Staphylokinase: a boon in medical sciences – review. *Mintage Journal of Pharmaceutical & Medical Sciences*. 2(2), 28-34 (2013).
183. Mrinmoy Ghosh, KK Pulicherla, P. Suresh Kumar, V.P.B.Rekha and K.R.S. Sambasiva Rao *Thalassospira frigidophilosprofundus* sp." a novel psychrophilic marine bacterium isolated from the deep sea water of Bay of Bengal. *Current Scenario in Biotechnology*, 570-577 (2012)
182. **Sambasiva Rao K.R.S.**, Tripathy N.K., Srinivasa Rao D. and Prakasham R. S. Production, characterization, catalytic and inhibitory activity of tyrosinase, *Research Journal of Biotechnology*, 8 (1): 87-99 (2012)
- 181 S R Kotra, N Prudvi, KRA Sada Sai, K K Mannava, J B Peravali, Anmol Kumar, **KRS Sambasiva Rao** and K K Pulicherla. Cost effective process for the production of fungal L-asparaginases from *Penicillium* sps. isolated from local soil samples. *Mintage journal of Pharmaceutical & Medical Sciences*. 2(2), 45-50 (2013)

180. Vemuri Praveen Kumar, Veeravalli Suryanarayana, Poda Sudhakar and **K. R. S. Sambasiva Rao**. Cloning, Expression and Purification of Recombinant Human Galectin-3 by Using pPUZZLE Shuttle Vector in Bacterial Strain (DE3) Host System. *Advanced Biotech.* 13(1): 9-12 (2013).
179. Samineni Kishore Kumar, Maddi Venkata Nagabhushanam, **K. R. S. Sambasiva Rao** and D. V. R. N. Bhikshapathi. Preparation and *in vivo* evaluation of oral dissolving films containing sumatriptan succinate. *Der Pharmacia Lettre*, 5 (3):27-38 (2013).
178. Kothamasu Soma Sekhar, Maddi Venkata Nagabhushanam, **K.R.S.Sambasiva Rao**, and V.R.N.Bhikshapathi, Design, *In vitro* and *In vivo* Evaluation of quetiapine Fumarate extended release tablets, *Int J Pharm Bio Sci.* 4(4): (P) 578 – 595 (2013)
177. Aruna Adusumilli, Ramakrishna Rao K, **KRS Sambasiva Rao** and Madhavi Chandra. Cloning, Expression, Purification and Characterization of Human Hematopoietic Growth Factor Expressed in *E.coli*. *International Journal of Bioassays.* 2(5)769-774 (2013).
176. P.Dinesh Kumar, P.Vijayaraj Kumar, T.Panner Selvam and **K.R.S.Sambasiva Rao**. Prolonged Drug Delivery System of PEGylated PAMAM Dendrimers with a Anti-HIV Drug. *Research in Pharmacy.* 3(2): 8-17 (2013).
175. Petkar Medha B, Pillai Meena M, Kulkarni Amarja A, Bondre Sushma H and **Rao KRSS**. Purification and Characterization of Superoxide Dismutase Isolated from Sewage Isolated *E. coli*. *J Microb Biochem Technol.*, 5:102-106. doi: 10.4172/1948-5948.1000109 (2013)
174. K.K. Pulicherla and **K.R.S.Sambasiva Rao**. Marine Biocatalysts and their Stability: Molecular approach. In: *Marine Enzymes for Biocatalysis – Sources, Biocatalytic Characteristics and Processes of Marine Enzymes*. Ed. Antonio Trincone. Woodhead Publishing Limited, Cambridge, UK 71-86 (2013)
173. M Govindaraju, HS Shekar, SB Sateesha, P Vasudeva Raju, **KRS Sambasiva Rao**, KSJ Rao, AJ Rajamma. Copper interactions with DNA of chromatin and its role in neurodegenerative disorders. *Journal of Pharmaceutical Analysis.* 3(5): 355-359 (2013).
172. R .Yogananda, K.P.R. Chowdary and **K.R.S.Sambasiva Rao**. Enhancement of Solubility, Dissolution Rate and Bioavailability of Ritonavir by Cyclodextrins and Solutol HS15 - A Factorial Study. *International Journal of Research In Pharmacy And Chemistry.* 3(2): 235-239 (2013)
171. Samsul Alam, Krupanidhi K, **K.R.S Sambasiva Rao**. Evaluation of *in-vitro* antioxidant activity of *Amaranthus tricolor* Linn. *Asian Journal of Pharmacology and Toxicology* 01 (01), 12-16 (2013)
170. S.T.V. Raghavamma, N. Rama Rao, **K.R.S. Sambasiva Rao**, G. Devela Rao. Screening the Leaf Extract of *Pergularia Daemia* (Forssk.) Chiov., for its Antioxidant Property and Potential Antimicrobial activities on Medicinally Important Pathogens. *International Journal of Phytopharmacology.* 4(3), 217-222 (2013)
169. B. Ravi kumar, M. Lakshmi Prasad, D. Srinivasarao and K. R. S. Sambasiva Rao. Bioremediation of sewage using specific consortium of Microorganisms. *International Journal of Research in Applied, Natural and Social Sciences (Impact Journals)*, 1(6):15-26 (2013)
168. P.Dinesh Kumar, P.Vijayaraj Kumar, T.Panner Selvam and **K.R.S.Sambasiva Rao**. PEG

Conjugated PAMAM Dendrimers with a AntiHIV Drug Stavudine for prolong release. Research in Biotechnology. 4(2): 10-18 (2013).

167. A.Madhu Babu, B.Prakash Rao, P.Sudhakar, **K.R.S.Sambasiva Rao**. Formulation and Evaluation of Self Nanoemulsion Drug delivery system of low solubility drug "Simvastatin" for Improved Solubility and Bioavailability. International Journal of Biological & Pharmaceutical Research. 3(6): 767-774 (2012).

166. C Phaneendra, **KRSS Rao**, RK Jain, B Mandal. Tomato leaf curl New Delhi virus is associated with pumpkin leaf curl: a new disease in northern India. Indian Journal of Virology 23 (1): 42-45 (2012)

165. Chandrasekhar Gurramkonda, Sheikh M. Talha, Satheesh Kumar Gudi, Venkateswara Rao Gogineni and **Krothapalli Raja Surya Sambasiva Rao**. Fed-batch cultivation of *Escherichia coli* expressed designer hepatitis C virus diagnostic intermediate and its Evaluation. Biotechnology and Applied Biochemistry, 59(6): 437-444 (2012).

164. Aruna Adusumilli, Ramakrishna Rao. **K. R. S. Sambasiva Rao**, The clinical applications of Hematopoietic growth factor GCSF, Asian Journal of Biomedical and Pharmaceutical Sciences, 2(14): 1 – 10,(2012).

163. **K.R.S. Sambasiva Rao**, N.K. Tripathy, Y. Mahalaxmi and R. S. Prakasham. Biochemical characterization and identification of extracellular tyrosinase biosynthesis in *Streptomyces antibioticus*, International Research Journal of Biochemistry and Bioinformatics (ISSN-2250-9941) Vol. 2(4) pp. 90-92 (2012).

162. KK. Pulicherla, K. Seetharam, Anmol Kumar, VPB. Rekha and **KRS. Sambasiva Rao**. Cloning and High Level Expression of Recombinant Heterologous Fusion Protein SAK GD in Methanol Inducible *Pichia pastoris* GS115. International Journal of Research in Pharmaceutical and Biomedical Sciences. Vol. 3 (3), 1008-1012 (2012).

161. M. Govindaraju, Monica F.S., Berrocal R., **Sambasiva Rao K.R.S.** and Rao K.S. First Evidence for Aluminum-maltol driven B to Z-DNA Conformational Transition in Poly d(GC). d(GC): Relevance to Alzheimer's Disease, Current Trends in Biotechnology and Pharmacy. Vol. 6 (2) 204-209 (2012)

160. T. Venkata Amarnadh, M. Ramesh, D. Srinivasrao and **K.R.S Sambasiva Rao**, Cultivation and Production of Selected Oyster Mushroom (*Pleurotus Sajor Caju*). Journal of Applicable Chemistry, 1 (2):312-318 (2012)

159. P. Balaji Suresh, B. Srikanth, V. Hemanth Kishore, I. Subhakara Rao, L. R. Vemireddy, N. Dharika, R. M. Sundaram, M. S. Ramesha, **K. R. S. Sambasiva Rao**, B. C. Viraktamath and C. N. Neeraja. Fine mapping of Rf3 and Rf4 fertility restorer loci of WA-CMS of rice (*Oryza sativa* L.) and validation of the developed marker system for identification of restorer lines. Euphytica (Springer)187: 421–435 (2012)

158. P. Suresh Kumar, KK Pulicherla, **K. R. S. Sambasiva Rao**, Current Status of Production, Clinical Usage and Market Scenario of Streptokinase. Journal of Pharmacy Research, Vol. 5 (8), 4223-4229 (2012).

157. Mrinmoy Ghosh, KK Pulicherla, VPB Rekha, G. Venkata Rao and **K.R.S. Sambasiva Rao**. A Review on successive generations of streptokinase based thrombolytic agents. International J. of Pharmacy and Pharmaceutical Sciences 4 (3), 38-42 (2012).

156. K. Kasturi, Donepudi Siva Mallika, Seelam Jeevan Amos, Pavithra Venkateshaiah and **KRS Sambasiva Rao**. Current opinion on an emergence of drug resistant strains of *Plasmodium falciparum* through genetic alterations, *Bioinformation* 8: (22): 1114-1118, (2012).
155. Mrinmoy Ghosh, KK Pulicherla, VPB Rekha and **K.R.S. Sambasiva Rao**. Cold active β -galactosidase from *Thalassospira sp.* 3SC-21 to use in milk lactose hydrolysis: A novel source from deep waters of Bay-of-Bengal pp 2859–2869, Vol. 28 (9), June 2012. *World Journal of Microbiology and Biotechnology*. DOI 10.1007/s11274-012-1097 (2012).
154. Rajendran Ramya, Shanmugam Rajalakshmi, Bhaskaran Mohana Subramanian, Saripalli Umamaheswara Rao, **Krothapalli R. S. Sambasiva Rao**, Srinivasan Alwar Villupanoor, Immuno-affinity Purification of Insect Cell Expressed Rabies Virus Glycoprotein using a Conformational Specific Monoclonal Antibody. *Journal of Advanced Veterinary Research*, 2: 232-238 (2012)
153. Ravi V. Gutlapalli, Jyothsna L. Ambaru, Pavani Darla and **K.R.S.Sambasiva Rao**, Genome wide search for identification of potential drug targets in *Bacillus anthracis*. *Int. J. Computational Biology and Drug Design*, 5(2): 164-179 (2012)
152. **K.R.S. Sambasiva Rao**, N.K. Tripathy, Y. Mahalakshmi and R. S. Prakasham, Biochemical Characterization and Identification of Extracellular Tyrosinase Biosynthesis in *Streptomyces antibioticus*, *Journal of Biochemistry and Bioinformatics*, 2(4) 90-92 (2012)
151. **Sambasiva Rao, K.R.S.**, N.K.Tripathy, Y.Mahalakshmi and R.S.Prakasham. Laccase- and eroxidase-Free Tyrosinase Production by Isolated Microbial Strain. *J. Microbiol. Biotechnol.*, 22(2): 207-214 (2012)
150. Lakkireddy K. K. R, Kasturi K, **Sambasiva Rao K. R.S**, Role of Hydroponics and Aeroponics in Soilless Culture in Commercial Food Production, *Research & Reviews: Journal of Agricultural Science & Technology*, Volume 1:26- 35, (2012).
149. Seetha Ram Kotra, Anmol Kumar, **KRS Sambasiva Rao** and KK Pulicherla. Statistical Optimization of Media Components for Enhanced Production of the Recombinant Staphylokinase Variant from Salt Inducible *E.Coli* GJ1158. *International Journal of Bio-Science and Bio-Technology*, 4(4); 27-40 (2012)
148. Aruna Adusumilli, Ramakrishna Rao. K. and **Sambasiva Rao Krothapall**. The clinical applications of Hematopoietic growth factor - GCSF *Asian Journal of Biomedical and Pharmaceutical Sciences*. 2(14) 1-10 (2012)
147. Manish Kumar Thimmaraju, Khaggeswar Bheemanapally, J. Venkateshwar Rao, **KRS.Sambasiva Rao** and Raghunandan Nerella. Quantitative determination of Cimetidine in both bulk and formulations using neutralization titrations. *Journal of Applied Pharmaceutical Science*. 2 (1); 119-122 (2012)
146. P.Madhusudana, B.Babajan, M.Chaitanya, C.M.Anuradha, C.Shobharani, Rajasekar Chikati, Chitta Suresh Kumar, K.R.S.Sambasiva Rao, Sudhakar Poda. Molecular characterization of Mtb-OMP decarboxylase by modeling, docking and dynamic studies. *Interdisciplinary Sciences: Computational Life Sciences*. 4(2): 142-152 (2012)

145. Vasant K. Valaparla, K. R. S. Sambasiva Rao and A. Subrahm. Taxonomy of *Acremonium sporosulcatum* sp. Nov. *Developmental Microbiology and Molecular Biology (DMMB)*, 3 (1): 75-86 (2012)
144. Karunasree, V., Veeresham, C., **Sambasiva Rao, K.R.S.** and Asres, K. Evaluation of the anti diabetic activity of column fractions obtained from the bark extract of *Soymida febrifuga* A. Juss. *Pharmacognosy Journal*. 4(31): 37-43 (2012)
143. Suneetha B, Pavan Kumar P, Prasad KVSRG, Vidyadhara S and **Sambasiva Rao KRS.** Hepatoprotective and Antioxidant Activities of Methanolic Extract of *Mimosa pudica* Roots against Carbon Tetrachloride Induced Hepatotoxicity in Albino Rats. *Int J Pharma*, 1(1): 46-53 (2011)
142. HM Suresh, B Shivakumar, K Hemalatha, SS Heroor, DS Hugar, **K.R.S Sambasiva Rao.** *In vitro* antiproliferative activity of *Annona reticulata* roots on human cancer cell lines. *Pharmacognosy Research*. 3(1): 9-12 (2011)
141. Jatavathu Madhavi, Jatavathu Srilakshmi, M. V. Raghavendra Rao and **K. R. S. Sambasiva Rao.** Efficient Leather Dehairing by Bacterial Thermostable Protease. *International Journal of Bioscience and Biotechnology*, 3(4): 11-26 (2011).
140. **K.R.S.Sambasiva Rao**, M.V. Nagabhushanam and K.P.R. Chowdary, *In vitro* Dissolution Studies on Solid Dispersions of Mefenamic Acid, *Indian Journal of Pharmaceutical Sciences*, *Indian J. Pharm. Sci.*, 73 (1): 243-247 (2011)
139. **K.R.S.Sambasiva Rao** and D.Srinivasa Rao. A comparative-based phylogenetic study in the evolution of 16S rRNA and rad a genes in Archaea. *Int. J. Data Mining and Bioinformatics*. Vol. 6, No. 4, 396-405(2012)
138. Annavarapu Rajasekhar, Vallurupalli Ravi, M. Neerja Reddy and **K. R. S. Sambasiva Rao.** Thermostable Bacterial Protease - A New Way for Quality Silk Production *International Journal of Bioscience and Biotechnology*, 3(4): 43-57 (2011).
137. Jaganmohan, P., Narayana Rao, S.V.L. and **Sambasiva Rao, K.R.S.** Estimation of Selective Renal Markers for the Prediction of Fluorosis Induced Nephropathy in Villages of Nellore District Andhra Pradesh, India. *Global J. Biotech & Biochem.*, 6 (2):41-47 (2011)
136. R.Ramya, B.Mohan Subramanian, V.Siva Kumar, R.L.Senthil Kumar, **K.R.S.Sambasiva Rao**, V.A.Srinivasan. Expression and solubilization of insect cell-based Rabies virus Glycoprotein and assessment of its immunogenicity and protective efficacy in mice. *Clinical and Vaccine Immunology*. 18 (10) 1673-1679 (2011).
135. Pavithra V. , Sathisha T. G., K. Kasturi and **KRS Sambasiva Rao.** Prostate specific antigen: a new means as diagnostic and prognostic factor for breast cancer. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 2(2): 404-414 (2011)
134. P. Suresh Kumar, Mrinmoy Ghosh, KK Pulicherla, **K. R. S. Sambasiva Rao.** Cold Active Enzymes from the Marine Psychrophiles: Biotechnological Perspective. *Advanced Biotechnology*. Vol. 10 (9), 16-20 (2011).
133. KK Pulicherla, Mrinmoy Ghosh, P. Suresh Kumar, **K. R. S. Sambasiva Rao.** Psychrozymes - The Next Generation Industrial Enzymes. *Journal of Marine Science: Research & Development*. Vol. 1 (1) 1-7 (<http://dx.doi.org/10.4172/2155-9910.1000102>) (2011)

132. P.Suresh Kumar, KK Pulicherla, Mrinmoy Ghosh Anmol Kumar and **K. R. S. Sambasiva Rao**. Structural prediction and comparative docking studies of psychrophilic β -Galactosidase with lactose, ONPG and PNPG against to its counter parts of mesophilic and thermophilic enzymes. *Bioinformation*. 6(8): 311-314 (2011)
131. Pavithra V, Sathisha T G, K Kasturi, **KRS Sambasiva Rao**, Prostate specific antigen: a new means as diagnostic and prognostic factor for breast cancer, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 403-414, (2011).
130. KK Pulicherla, Mrinmoy Ghosh, G. Venkata Rao and **K. R. S. Sambasiva Rao**. Cost effective Production of algal biomass (*Chlorella vulgaris*) from Dairy Effluents for use in biofuel production. *International journal of Biotechnology and Bioengineering Research*. Vol.2 (1), 127-139, (2011).
129. Kasturi K, Kiran Kumar Reddy L, Nawaz Babajaan, Pavithra V and **Sambasiva Rao K R S**, Molecular modeling and structure based validation of *H. influenzae* KW20 RD proteins, *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 665-674, (2011).
128. K.Ananda Krishna, K.Sai Krishna, Ruben Berrocal, K.S.Rao and **K. R. S.Sambasiva Rao**, Myocardial infarction and stem cells, *Journal of Pharmacy and Bioallied Sciences*, 3(2); 182-188 (2011)
127. P.Sudhakar, M.Usha Kiranmayi, S.Selvaraj, M.Srinivasa Rao, M.Vijayalakshmi and **K. R. S. Sambasiva Rao**, Engineering Generic Vaccine Vectors, *Int. J. Biomedical Engineering and Technology*, 6(1): 93-108 (2011)
126. K.K.Pulicherla, Anmol Kumar, K.Seetharam and **K.R.S.Sambasiva Rao**. Isolation, Cloning and Expression of Mature Staphylokinase from Lysogenic *Staphylococcus aureus* Collected from a Local Wound Sample in a Salt Inducible *E.coli* expression Host, *International Journal of Advanced Science and Technology*, 30(1): 35-41 (2011)
125. S.Rambabu, **K.R.S.Sambasiva Rao** and R.Polavarapu. An Optimized Process for Expression, Scale-Up and Purification of Recombinant Erythropoietin Produced in Chinese Hamster Ovary Cell Culture, *Research in Biotechnology*, 2(3): 58-74 (2011)
124. P.Jaganmohana Rao and **K.R.S.Sambasiva Rao**. Studies on establishment of primary cell cultures from Hepatopancreatic tissue of *Penaeus vannamei* post larvae using different biological fluid extracts. *Research Journal of Biotechnology*.6(1): 64-68 (2011)
123. MK Chaitanya Prasad; G, Vidyasagar; KRS, Sambasiva Rao, Induri, Madhusudhanareddy; S. Ramanjeneyulu. Development of validated liquid chromatographic method for estimation of levocetirizine from pharmaceutical dosage forms. *Journal of Applied Pharmaceutical Science* 1(10): 95-97 (2011)
122. TM Kumar, G Srikanth, JV Rao, **KRSS Rao**. Development and validation of HPLC-UV method for the estimation of Levofloxacin in Human Plasma. *Int J Pharm Pharm Sci*. 3 (2), 247-250 (2011)
121. TM Kumar, G Srikanth, V Pamulaparthi, JV Rao, **KRSS Rao**. Development and validation of HPLC-UV method for the estimation of Oxaprozin in human plasma. *Journal of Pharmacy Research*. 4 (11): 4202-4204 (2011)

120. TM Kumar, G Srikanth, V Pamulaparth, JV Rao, **KRSS Rao**. Development and validation of HPLC-UV method for the estimation of Fenofibrate in human plasma. *Journal of Pharmacy Research* 4 (10) 3735-3737 (2011)
119. T. Manish Kumar, Gu r r a l a S r i k a n t h, Vandana Pamulaparth, J. Venkateswara Rao, **KRS Sambasiva Rao**. Development and validation of HPLC-UV method for the estimation of zaltoprofen in human plasma. *Journal of Pharmacy Research* 4 (10) 3753-3755 (2011)
118. Ch.V.Suresh, **K R S Sambasiva Rao** and G. Vidya Sagar. Development of New Visible Spectrophotometric Methods for the Determination of Ranolazine in Pharmaceutical Dosage Forms. *International Journal of Pharmacy & Technology*, 3(4): 3710-3714 (2011)
117. Manish Thimma Raju, Srikanth Gurrala, J. Venkateshwar Rao, **K.R.S. Sambasiva Rao** Development and Validation of Hplcuv Method for the Estimation of Eprosartan in Human Plasma, *International Journal of Pharmacy and Pharmaceutical Science*, 3(2): 191-194 (2011)
116. Vijay Bhaskar, T., Jeevani, T., Srinivas Rao, D. and **Sambasivarao, K.R.S.** Secondary Metabolites in Brown Seaweed, *Undaria Pinnatifida*, **J. Appl. Biosci.**, **37(1)** 62-63(2011)
115. Chennupati Venkata Suresh, **K.R.S. Sambasiva Rao** and G. Vidya Sagar. Development of New Visible Spectrophotometric Methods for the Determination of Quetiapine in Pharmaceutical Dosage forms. *Bulletin of Pharmaceutical Research*. 1(3):31-33 (2011)
114. K. Sreenivasulu, M. Vijayalakshmi and **K.R.S.Sambasiva Rao**. hTERT gene inhibition studies in cancer cells by using polysaccharide lentina. *Journal of Medical Genetics and Genomics*. Vol. 3(1), pp. 7 – 12, (2011)
113. Srikanth Lingala, Raghunandan Nerella, **K.R.S.Sambasiva Rao**. Synthesis, Antimicrobial And Anthelmintic Activity of Some Novel Benzimidazole Derivatives. *International Journal of Pharmaceutical Sciences Review and Research*, 10(2)100-105 (2011)
112. Srikanth Lingala, Raghunandan Nerella, **K.R.S.Sambasiva Rao**. Synthesis, antimicrobial and anthelmintic activity of some novel benzimidazole derivatives. *Der Pharma Chemica*, 3(4): 344- 352 (2011)
111. G. Vijay Kumar, TEGK. Murthy and **KRS. Sambasiva Rao**. Validated RP-HPLC Method for the Estimation of Telmisartan in Serum Samples. *International Journal of Research in Pharmacy and Chemistry*. 1(3): 701-704 (2011)
110. Udaya Sri, P., **Sambasiva Rao, K.R.S.** and Subbu Rathinam, K.M. Biomineralisation of organophosphorus pesticide (malathion) using fungal species *Rhizopus oligosporus* from cotton soils of Andhra Pradesh, India. *Journal of Pure and Applied Microbiology*. 5 (1): 39-50 (2011).
109. Udaya Sri, P., Subbu Rathinam, K.M. and **Sambasiva Rao, K.R.S.** Detoxification of chlorpyrifos using fungal species *Aspergillus niger* from cotton soils of Andhra Pradesh, India. *Biomedical and Pharmacology Journal*. 3(2): 317-328 (2010)
108. Udaya Sri, P., **Sambasiva Rao, K.R.S.** and Subbu Rathinam, K.M. Biomineralisation of organophosphorus pesticide (malathion) using fungal species *Aspergillus niger* from cotton soils

of Andhra Pradesh, India. Research Journal of Biotechnology. 5(3): 53-60 (2010)

107. Jaganmohan, P., Narayana Rao, S.V.L. and **Sambasiva Rao, K.R.S.** Studies on the Evaluation of Angiotensin-I Converting Enzyme Polymorphism under Fluorosis Mediated Renal Failures in Nellore Dt., Andhra Pradesh, India. Global J.Mol.Sci.5(2):74-79 (2010)

106. Shubhra Shakya, K.Kasturi, and K.R.S.S.Rao, Dihydrofolate Reductase: a Target for Antimalarial Drug, An International Journal of Advances In Pharmaceutical Sciences, Vol.1 (1) : 6-10, (2010).

105. P.Krishna Kanth, A.Krishna Satya, VPB Rekha, GS Gadupudi, JB Peravali and **K.R.S.Sambasiva Rao**, Studies on cloning and economic production of recombinant Streptokinase in a novel osmotically inducible *E.Coli* GJ1158, Int. J. Biomedical Engineering and Technology. 4(1): 29-39 (2010)

104. F. Ghasemi, F. Tabandeh, B. Bamba and **K. R. S. Sambasiva Rao**. Decolorization of different azo dyes by *Phanerochaete chrysosporium* RP78 under optimal condition. Int. J. Environ. Sci. Tech., 7 (3), 457-464 (2010)

103. Kamma Sreenivasulu, Muvva Vijayalakshmi and **Krothapalli RS Sambasivarao** Regulation Studies of Telomerase Gene in Cancer Cells by Lentinan. Avicenna Journal of Medical Biotechnology. 2(4): 181-185 (2010)

102. Haritha, K., P. Udaya Sri, J.Madhavi, Pulicherla, K.K. and **Sambasiva Rao K.R.S.** Heterologous Production of Synthetic Cationic Antimicrobial Peptide In Novel Osmotically Inducible *E.Coli Gj1158*. Canadian Journal of Pure and Applied Sciences. 4(1): 1027-1031 (2010).

101. Anmol Kumar, K.K. Pulicherla, K.Seetha Ram and **K.R.S.Sambasiva Rao**. Evolutionary Trend of Thrombolytics. International Journal of Bioscience and Biotechnology. 3(4):51-67 (2010)

100. P.Jaganmohan, S.V.L. Narayana Rao and **K.R.S. Sambasiva Rao**. Prevalence of High Fluoride Concentration in Drinking Water in Nellore District, A.p., India: A Biochemical Study to Develop the Relation to Renal Failures, World Journal of Medical Sciences 5 (2): 45-48 (2010)

99. O.Hari Prasad, A.Navya, V.P.Gopinath, D.Vasu and **K.R.S.Sambasiva Rao**, A Nanoparticle Approach for Bacterial Diagnosis, International Journal of Nanotechnology and Applications,4(3):213-215 (2010)

98. P.Jaganmohan, S.V.L. Narayana Rao and **K.R.S. Sambasiva Rao**. Biochemical and Haematological Investigations on Fluorosis Threaten Patients at Nellore District, Andhra Pradesh, India. World Journal of Medical Sciences 5 (3): 54-58 (2010)

97. S.Rambabu, M.Nagasundaram, R. Polavarapu and **K.R.S.Sambasiva Rao**. Improvement of Recombinant CHO Cell Growth, Comparison of Growth Characteristics and Erythropoietin Production, International Journal of Biotechnology and Biochemistry, 6(7): 1003-1022 (2010)

96. P.Jaganmohan, S.V.L. Narayana Rao and **K.R.S. Sambasiva Rao**. Lipid Abnormalities in Fluoride Induced Renal Failure Patients of Nellore District Andhra Pradesh, India. African Journal of Basic & Applied Sciences 2 (3-4): 94-98 (2010)

95. **K.R.S.Sambasiva Rao**, M.V.Nagabhushanam and K.P.R.Chowdary, Pharmacokinetic Evaluation of Cyclodextrin complexes of Celecoxib, *Int. J. Pharmacol. Biol. Sci.*, 4(3): 1-6 (2010)
94. **K.R.S.Sambasiva Rao**, M.V.Nagabhushanam and K.P.R.Chowdary, Evaluation of Pharmacokinetic parameters of Cyclodextrin complexes of Piroxicam. *Int. J. Pharmacol. Biol. Sci.*, 4(2): 105-110 (2010)
93. Srinivasa R. Gangireddy, Radha D. Madhavi, Kosana R. Ravikanth, Praveen K. Reddy, Venkat R. Konda, **KRS Sambasiva Rao**, Sripad Gunwar. High Yield Expression of Human Recombinant PTH (1-34). *Current Trends in Biotechnology and Pharmacy*. 4(1): 568-577 (2010)
92. Ch.Udaya Lakshmi, M.Revathi, D.Srinivasa Rao and **K.R.S. Sambasiva Rao**. Homology modeling of hypothetical protein MPNO10 from *Mycoplasma pneumoniae*, *Acta Ciencia Indica*, XXXVI(1): 87-95 (2010).
91. Rajasekhar Pinnamaneni, P Kalidas and **K R S Sambasiva Rao**. Studies on the effect of varied physico-chemical parameters on the growth of *Beauveria bassiana*. *Research Journal of Biological Sciences*. 2(1): 20-29 (2010).
90. Rajasekhar Pinnamaneni, P. Kalidas and **K R S Sambasiva Rao**, *In silico* 3-Dimensional structure determination of exochitinase produced by *Bbchit1* gene of *Beauveria bassiana*. *Bioinformatics Trends*. 5(1&2): (2010)
89. V. Meena , A. Sumanjali , K.Dwarka , K. M. Subburathinam and **K.R.S. Sambasiva Rao**. Production of Itaconic Acid through Submerged Fermentation Employing Different Species of *Aspergillus*. *Rasayan J. Chem.* Vol.3, No.1, 100-109 (2010)
88. Muraleedharan, P., Jain, N., Naidu, H., Rao, G., Reddy, C. and Sambasiva Rao, K.R.S. Development of multiplex reactions for linkage mapping in water buffalo (*Bubalus bubalis*). *International Journal of Integrative Biology*. 6 (3): 154-157 (2009)
87. R.S. Prakasham, P. Brahmaiah, T. Sathish , **K.R.S. Sambasiva Rao**. Fermentative biohydrogen production by mixed anaerobic consortia: Impact of glucose to xylose ratio. *International Journal of Hydrogen Energy*, 34: 9354 – 9361 (2009)
86. P.Udaya Sri, N.Vijaya Sree and **K.R.S.Sambasiva Rao**. Use of Extracellular enzymes for enhancing Bioremediation. *J. Appl. Biosci.*, 35 (2): 91-102 (2009)
85. N.Vijaya Sree, P.Udaya Sri, and **K.R.S.Sambasiva Rao**. Biosurfactants production utilising substrates from renewable resources. *J. Appl. Biosci.*, 35 (2): 91-102 (2009)
84. K. Haritha and **K.R.S. Sambasiva Rao**. Effect of pH and Nutrient Starvation on Biodegradation of Azo Dyes by *Phanerochaete chrysosporium*-Rp78. *Journal of Pure and Applied Microbiology*, 3(2): 495-502 (2009)
83. L. Joji Reddy, Ch. Sirisha, **K. R. S. Sambasiva Rao**. Assessment of Genetic and Pathogenic Diversity of *Xanthomonas oryzae* pv. *oryzae* on High Yielding Local Variety, Tella Hamsa, from Farmer Fields in Gagillapur and Kompally, Andhra Pradesh. *Taiwania*. 54(3):241-247 (2009)
82. K.Haritha and **K.R.S.Sambasiva Rao**. Phytase production by *Rhizopus oligosporus* MTCC556 under submerged fermentation conditions. *Asian J. Bio. Sci.* 4(2): 270-273 (2009)

81. D. Gowsia, B. Babajan, M. Chaitanya, C. Rajasekhar, P. Madhusudana, C. M. Anuradha, G. Ramakrishna, **K. R. S. Sambasiva Rao** and Chitta Suresh Kumar. *In silico* effective inhibition of gatifloxacin on built Mtb-DNA gyrase. *Journal of Bioinformatics and Sequence Analysis*. 1 (4), 50–55 (2009)
80. Haritha K. and **Sambasiva Rao K.R.S.** A Dye based assay of lignin and manganese peroxidases of *Phanerochaete crysosporium Rp-78*, 2009 *Trends in Biosciences*. 2(2): 11-13 (2009)
79. K.S.R.Murthy and **K.R.S.Sambasiva Rao**, Chemical composition and Nutritional evaluation of *Paracalyx scariosus* (Roxb.) ALI A wild relative of *Cajanus* from southern Peninsular India, *Tropical and Subtropical Agroecosystems*, 10: 121-127 (2009)
78. Haritha K. and **Sambasiva Rao.K.R.S.** Comparative studies of Dye degradation by *Phanerochaete crysosporium Rp-78* and *Aspergillus niger*, *Biotechnology Biosciences Research Asia*, 6(2): 881-886 (2009)
77. K.Ananda Krishna and **K.R.S.Sambasiva Rao**, Bone marrow Transplantation, *The Open Biotechnology Journal*, 3: 24-30 (2009)
76. N. Vijayasree, K. Haritha, V.Subhash and **K.R.S.S.Rao**, Dye-Doped Nanoparticles: The bioconjugated nanoparticles for biotechnology and bioanalysis, *Research Journal of Biotechnology*, 4(2) 61-66 (2009).
75. T.Leelanath, **K.R.S.Sambasiva Rao**, and M.Ravi Kumar, Influence of Physicochemical Factors on Chitinase Activity in Soil Borne Microorganism, *Research Journal of Biological Science*, 3: 36-46 (2009).
74. N. Vijaya Sree, and **K.R.S. Sambasiva Rao**, Nutraceuticals: Their Importance in Health management, *Research Journal of Biological Science*, 3: 56-63 (2009).
73. K. Kasturi, **K.R.S.Sambasiva Rao** and C.Suresh Kumar, Protein Modeling Studies of Pathogenic Protein of *Aspergillus fumigatus*, *Res.Journal of Biological Science*,3:139-143 (2009).
72. P. Udaya Sri, D. Srinivasa Rao, N. Vijaya Sree, K. Haritha. and **K.R.S.Sambasiva Rao**, Hazards of Pesticides to Human Health, *Res. Journal of Biological Science*, 3: 178-196 (2009).
71. P Jaganmohan, A. Phaninatha Sarma, **KRS Sambasiva Rao**. Review on involvement of fluorosis in renal failures: Role of ace gene polymorphism. *Journal of Association of Zoologists, India* 2 (1), 174-87 (2009)
70. Ch.Madhu Babu, R.Chakrabarti and **K.R.S.Sambasiva Rao**, Enzymatic isolation of carotenoid-protein complex from shrimp head waste and its use as a source of carotenoids, *LWT Food Science and Technology*, 41(2): 227-235 (2008)
69. K.Kasturi, **K.R.S.Sambasiva Rao** and C.Suresh Kumar, Protein modeling studies of pathogenic protein of *Aspergillus fumigatus* based on KEGG analysis – Peptidoglycan synthesis, *Research Journal of Biological Sciences*, 1(3): 139-143 (2008)
68. P. Jawahar Babu, KK Pulicherla, VPB. Rekha, R. Nelson and **KRS. Sambasiva Rao**, Studies on Designing, Construction, Cloning and expression of a novel synthetic antimicrobial peptide. *Current Trends in Biotechnol. and Pharmacy*, 2(2):334-340 (2008)

67. K.Srinivasa Reddy, L. Joji Reddy, P.Ravindra babu, B.Rama Rao and **K.R.S.Sambasiva Rao**, Effect of Stimulators on Citric Acid Production by *Aspergillus niger* MTCC 281 through Submerged Fermentation, *Research Journal of Biological Sciences*, 1(2): 77-85 (2008)
66. Raghu Gangula, Rupsankar Chakrabarti, **K.R.S.Sambasiva Rao**, Distribution of Proteolytic activity in the different protein fractions of Tropical shrimp Head waste, *Food Biotechnology*, 22(1): 18-30 (2008)
65. Udaya Sri P., D.Srinivasa Rao, N.Vijayasree, K.Haritha and **K.R.S.Sambasiva Rao**, Hazards of Pesticides to Human Health, *Research Journal of Biological Sciences*, 1(3): 178-196 (2008).
64. R.K.Patel, K.M.Singh, K.J.Soni, J.B.Chauhan and **K.R.S.Sambasiva Rao**, Screening of Dairy Bulls for Weaver Syndrome in India, *Current Trends in Biotechnology and Pharmacy*, 2(1):192-197 (2008)
63. K.Anand Krishna and **K.R.S.Sambasiva Rao**, Stem cell-based therapy to restore nearly normal hearing, *Indian Journal of Biotechnology* , 7: 178-182 (2008)
62. A.Krishna Satya, P.Krishna Kanth and **K.R.S.Sambasiva Rao**, *In vitro* propagation of *Pterospermum xylocarpum* (Sterculiaceae), *Research Journal of Biological Sciences*, 1(1): 26-32 (2008)
61. K.V.Raghavender Rao, **K.R.S.Sambasiva Rao**, R.Nelson and K.Nagaiah, Hypoglycemic and Anti diabetic effect of *Caralluma attenuate* in normal and STZ induced diabetic rats, *The Antiseptic*, 105(5): 247-249 (2008)
60. A.Ratna Kumari, K.M.Singh, K.J.Soni, R.K. Patel, J.B.Chauhan and **K.R.S.Sambasiva Rao**, Genotyping of the polymorphism within exon 3 of prolactin gene in various dairy breeds by PCR RFLP (Brief Report). *Arch. Tierz., Dummerstorf*, 51(3): 298-299 (2008).
59. Sunila Mahavadi, Jean Huang, Vimolpak Sriwai, **Krothapalli R.S.S. Rao**, Karnam S.Murthy, Cross-regulation of VAPC₂ receptor internalization by m2 receptors via c-Src-mediated phosphorylation of GRK2, *Regulatory Peptides*, 139: 109-114 (2007)
58. Patel, R. K., Soni, K. J., Chauhan, J. B., Singh, K. M. and **Sambasiva Rao, K. R. S.** Identification, cloning and sequencing of partial exon 12 of gene encoding factor XI in Indian dairy animals. *Genetics and Molecular Biology*. 30(3), 580-583 (2007)
57. K.Anand Krishna, G.Venkateswara Rao and **K.R.S.Sambasiva Rao**, Stem cell-based therapy for the treatment of type I diabetes mellitus, *Regenerative Medicine*. 2(2): 171-177 (2007)
56. Joshi, J., Patel, R. K., Singh, K. M., Soni, K. J., Chauhan, J. B., Rank, D.N., Joshi, C.G. and **Sambasiva Rao, K. R. S.** Genome identity and diversity study in Gir and Kankrej (*Bos indicus*) cattle breeds using RAPD fingerprints. *Indian Journal of Biotechnology*, 6 (3): 322-327 (2007).
55. T.M. Lavanya, K. Sri Rama Murthy, N. Srinivasa Reddy, **K.R.S. Sambasiva Rao**, Phytochemical and Antimicrobial study of *Aglaia spectabilis* leaf extracts, *Journal of Tropical Medicinal Plants*, 7(2) 163-167 (2007)
54. K.Anand Krishna, G.Venkateswara Rao and **K.R.S.Sambasiva Rao**, Chaperonin GroEL: Structure and Reaction Cycle, *Current Protein Peptide Science*, 8, 418-425 (2007).
53. Rajesh K. Patel, Krishna M. Singh, Kalpesh J. Soni, Jenabhai B. Chauhan, **Krothapalli R. S. Sambasiva Rao**, Low Incidence of Bovine Leukocyte Adhesion Deficiency (BLAD) carriers in

Indian Cattle and Buffalo breeds, Journal of Applied Genetics, 48(2) (2007)

52. Priya, R. S., Patel, R. K., **Sambasiva Rao, K. R. S.** and Singh, K. M. Banding Pattern Induced by Restriction Endonucleases on Buffalo (*Bubalus bubalis*) chromosomes Haryana Veterinarian. 45: 7-10 (2007).

51. R.K.Patel, K.M.Singh, K.J. Soni, J.B.Chauhan, **K.R.S.Sambasiva Rao**, Lack of carriers of citrullinaemia and DUMPSin Indian Holstein cattle, J. Appl. Genet., 47(3):239-242 (2006)

50. D. Annieruth Helena, A. Jyothsna, N. Lakshmi, P. Jaganmohana Rao, G. Venkateswara Rao and **K.R.S. Sambasiva Rao**, Therapeutic implications of recombinant human erythropoietin in anaemic related clinical manifestations, African Journal of Biotechnology, Vol. 5 (25), pp. 2503-2509 (2006)

49. K.P.R.Chowdary, **K.R.S.Sambasiva Rao** and N.Koteswara Rao, Design of EVA microcapsule of Glipizide for controlled release: Influence of solvent used, Ind. J. Chem. Soc., 4(1): 23-30 (2006)

48. P.B.Kavi Kishor, S.Sangam, R.N.Amrutha, P.Sri Laxmi, K.R.Naidu, **K.R.S. Sambasiva Rao**, Sreenatha Rao, K.J.Reddy, P.Theriappan and N.Sreenivasulu, Regulation of praline biosynthesis, degradation, uptake and transport in higher plants: Its implications in plant growth and abiotic stress tolerance, Curr. Sci. 88(3): 424-438 (2005)

47. M.S.Rao, N.S.Reddy, G.V.Rao and **K.R.S.Sambasiva Rao**, Studies on the extraction and characterization of alpha-amylase from *Borassus indica*, Afr.J.Biotech, 4 (3):289-291 (2005)

46. A.S.Deepthi, R.K.Patel, **K.R.S.Sambasiva Rao** and K.M.Singh, Restriction endonucleases induced banding pattern on cattle chromosomes, Ind. J. Dairy Science, 58(1): 33-39 (2005)

45. V.B.Kandimalla, **K.R.S. Sambasiva Rao** and C.Ayyanna, Immobilized whole cell systems for antibiotics production. Asian J. of Microbiol. Biotechnol.Env. Sci.6, 297-303 (2004)

44. K.Sangamitra, R.K.Patel, **K.R.S.Sambasiva Rao** and K.M.Singh, Preliminary study on detection of fragile site on chromosomes of sub-fertile murreh buffalo bulls, Haryana Vet. 43: 68-71 (2004).

43. A.Ravi Kumar, G.V.Rao and **K.R.S.Sambasiva Rao**, Appendage Deformity Syndrome – A new disease observed in *Macrobrachium rosenbergii*, Disease of Aquatic Organisms, 59(1): 75-78 (2004)

42. N.Annapoorna, G.V.Rao, N.S.Reddy, P.Rambabu, **K.R.S.Sambasiva Rao**, An increased risk of osteoporosis during acquired immunodeficiency syndrome. Int.J.Med.Sci.1(3):152-164 (2004)

41. P.Rajasekhar, N.S.Reddy and **K.R.S.S.Sambasiva Rao**, Bt Gene – A exploratory approach, Asian Jr. of Microbial Biotech. Env. Sci., 6(4): 533-539 (2004)

40. A.B. Sabari, A.S. Deepti, G.V. Rao and **K.R.S. Samabasiva Rao**, Leishmaniasis - Current trends in Vaccination, Pharma Bioworld, 2 (3): 71-79 (2004)

39. M.Srikanth, G.V.Rao and **K.R.S.Sambasiva Rao**, Modified assay procedure for the estimation of serum glucose using microwell reader, J.Clin.Biochemistry 19(1):34-35 (2004)

38. A.Ravi Kumar, G.V.Rao and **K.R.S.Sambasiva Rao**, Chromatophore response during MBV and HPV infection in *Penaeus mondon* post larvae, NACA News Letter (2004)
37. Prasanthi, G. S., Patel, R. K., **Sambasiva Rao, K. R. S.** and Singh, K. M. (2004). Detection of fragile site on chromosomes of sub-fertile cattle bulls. Intas Polivet. 5(2): 87-93 (Awarded best research article) (2004)
36. K.P.R.Chowdary, **K.R.S.Sambasiva Rao** and G.B.T.Sundari, Design and Evaluation of once a day controlled release tablets of Indomethacin based on HPMC-Mannitol, The Pharma Review, Annexure(9): 148-152 (2004)
35. K.S.B.Naidu, N.S.Reddy, G.V.Rao and **K.R.S. Sambasiva Rao**, Biodegradation of textile dyes using *Phanerochaete chrysosporium*, Ind. J. Ecol.,30(1):268-270 (2003)
34. G.V.Rao, A.Ravi Kumar and **K.R.S.Sambasiva Rao**, Early diagnosis of white spot viral syndrome using rapid gill staining technique, Curr. Sci., 85(6): 1-2 (2003)
33. N.S.Reddy, Annapoorna Nimmagadda and **K.R.S.Sambasiva Rao**, An overview of microbial alpha amylase family, African Journal of Biotechnology, 2(12), 645-648 (2003)
32. Swami Krishna, T., N.S.Reddy and **K.R.S.Sambasiva Rao**, Green Revolution vaccines, edible vaccines, African Journal of Biotechnology, 2(12), 679-683 (2003)
31. V.D.Raj Kumar, J.K.Rao and **K.R.S. Sambasiva Rao**, Variations in the pollution load of the two water bodies in Guntur district - Algae as Biological indicators, Ind. J. Environ. Protec., 16(7): 534-536(1996)
30. **K.R.S. Sambasiva Rao** and K.V.R.Rao, Combined action of carbaryl and phenthoate on the sensitivity of AChE system of the fish, *C. punctata*, Ecotoxicol. & Environ. Saf., 17: 12-15 (1989)
29. I.K.A.Sahib and **K.R.S.Sambasiva Rao**, Studies on some kinetic parameters of notransferases in tissues of the snail, *Pila globosa* (Swainson) under malathion intoxication, Acta Physiologica Hungarica, 71(1): 31-34 (1988)
28. **K.R.S. Sambasiva Rao** and J.C.S.Rao, Independent and combined action of carbaryl and phenthoate on snakehead, *Channa punctata* (Bloch), Curr. Sci., 56(7): 331-332 (1987)
27. **K.R.S.Sambasiva Rao**, Variations in the nitrogen products of *Channa punctata* exposed to carbaryl and phenthoate pesticides, J. Environ. Biol., 8:119-122 (1987)
26. **K.R.S.Sambasiva Rao**, Combined toxicity of carbaryl and phenthoate on Indian snakehead, *C. punctatus* (Bloch), J. Hydrobiol. Spl. of Proc. Pers. in Hydrobiol., 119-122 (1987)
25. **K.R.S.Sambasiva Rao** and P. Padmavathi, A study on nutritional status of three freshwater fishes, Ind. J. Fish., 34:227-229 (1987)
24. **K.R.S. Sambasiva Rao** and K.V.R.Rao, Impact of phenthoate in continuous flow and static media on the respiratory enzymes of murrel, *C. punctatus*, Ind. Acad. Sci., 95: 719-722 (1986)
23. **K.R.S. Sambasiva Rao** and K.V.R.Rao, Independent and combined toxicity of carbaryl and phenthoate on some haematological parameters of murrel, *C. punctatus*, The Indian Zoologist, 10: 29-32 (1986)

22. **K.R.S.Sambasiva Rao**, I.K.A.Sahib, D.Sailatha and K.V.R.Rao, Comparative study of oxidative metabolism in *T. mossambica* exposed to technical and commercial grade malathion, *Environ. & Ecol.*, 4(2):210-213 (1986)
21. C.S.R.Jampani, D.S.Kumari and **K.R.S.Sambasiva Rao**, Differential eutrophication of three water bodies in Tenali town (A.P., India) with a special emphasis on algae as pollution indicators, *Environ. & Ecol.*, 4(3):410-413 (1986)
20. **K.R.S. Sambasiva Rao**, K.S.P. Rao, I.K.A.Sahib and K.V.R.Rao, Combined action of carbaryl and phenthoate on a freshwater fish (*CHANNA PUNCTATUS*, BLOCH), *Ecotoxicol. & Environ. Saf.*, 10 (1):209-217 (1985)
19. K.S.P.Rao, **K.R.S. Sambasiva Rao**, I.K.A.Sahib and K.V.R.Rao, Combined action of carbaryl and phenthoate on tissue lipid derivatives of murrel, *C. punctatus* (Bloch), *Ecotoxicol. & Environ.Saf.*, 9: 107-111 (1985)
18. **K.R.S.Sambasiva Rao**, K.S. Babu and K.V.R.Rao, Toxicity of elsan to the Indian snakehead, *Channa punctatus* (Bloch), *Ind. J. Fish.*, 32:153-158(1985)
17. S.M.Basha, K.S.P.Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Respiratory potentials of the fish, *T. mossambica* (Peters) under malathion, carbaryl and BHC intoxication, *Bull. Environ. Contam. Toxicol.*, 32:570-574 (1984)
16. I.K.A. Sahib, K.S.P. Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Sublethal toxicity of malathion on the proteases and free amino acid composition in the liver of the teleost, *T. mossambica* (Peters), *Toxicology Letters*, 20:59-62 (1984)
15. I.K.A. Sahib, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Effect of malathion on protein synthetic potentiality of the tissue of teleost, *T. mossambica* as measured through incorporation of amino acids, *Toxicology Letters*, 20:63-67 (1984)
14. **K.R.S.Sambasiva Rao**, K.S.P.Rao and K.V.R.Rao, Impact of technical and commercial grade phenthoate on some selected parameters of oxidative metabolism in the fish, *C. punctatus* (Bloch), *Indian J. Ecol.*, 11: 6-11(1984)
13. K.S.P. Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Electrophoretic pattern of esterases and LDH isozymes of freshwater teleost, *T.mossambica* (Peters), *Geobios*, 11:89-91 (1984)
12. K.S.P.Rao, **K.R.S.Sambasiva Rao**, K.S.Prasada Rao and K.V.R.Rao, Methyl parathion impact on the esterases of a freshwater teleost, *T.mossambica* (Peters), *Ind.J.Fish.*, 30:148-154 (1984)
11. S.M.Basha, K.S.P.Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Differential toxicity of malathion, BHC and carbaryl to the fish, *T. mossambica* (Peters), *Bull. Environ. Contam. Toxicol.*, 31:543-546 (1983)
10. I.K.A.Sahib, **K.R.S. Sambasiva Rao** and K.V.R. Rao, Dehydrogenase systems of the teleost, *T.mossambica* under augmented sublethal malathion stress, *J. Animal Morphol. & Physiol.*, 30:101-106 (1983)
9. M.R.Rao, K.S.Prasad, K.V.Kumari and **K.R.S.Sambasiva Rao**, Studies on enzyme levels in the body fluid of the snail, *P. globosa* (Swainson) under stress, *Nat. Acad. Sci. Letters*,

6:363-365 (1983)

8. D.Sailatha, I.K.A.Sahib, **K.R.S.Sambasiva Rao**, K.S.P.Rao and K.V.R.Rao, Sublethal effects of technical and commercial grade malathion on nitrogen metabolism of the teleost, *T. mossambica* (Peters), Ind.J.Physiol. & Pharmacol., 27:355-357 (1983)

7. I.K.A.Sahib, K.S.P.Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Regulation of acidic and basic types of proteins of the teleost, *T. mossambica* (Peters) under sublethal malathion impact, Ind. J. Fish., 30: 314-320 (1983)

6. M.R.Rao, K.S.P.Rao, M.S.Reddy, **K.R.S.Sambasiva Rao** and N.Mal Reddy, Toxicity of phenthoate and changes in the organic constituents of the snail, *P. globosa* (Swainson) under sublethal and lethal impact, Geobios, 10: 250-253 (1983)

5. K.S.P.Rao, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Effect of parathion on the inorganic composition of the fish, *C. punctatus* (Bloch), Geobios, 10:60-62 (1983)

4. K.V.R.Rao, **K.R.S.Sambasiva Rao** and K.S.P.Rao, Cardiac responses to malathion and methyl parathion in the murrel, *L. marginalis* (Lamarck), J. Environ. Biol., 4:65-68 (1983)

3. K.S.P.Rao, Ch. Madhu, **K.R.S.Sambasiva Rao** and K.V.R.Rao, Effect of methyl parathion on body weight, water content and ionic changes in the teleost, *T. mossambica* (Peters), J. Food Sci. & Tech., 20:27-29 (1983)

2. K.S.P.Rao, **K.R.S.Sambasiva Rao**, K.S.Babu and K.V.R.Rao, Toxic impact of phenthoate on some functional aspects of nitrogen metabolism in tissues of the fish, *C. punctatus* (Bloch), Ind. J. Fish., 29:230-233 (1982)

1. **K.R.S.Sambasiva Rao**, K.S.P.Rao, I.K.A.Sahib and K.V.R.Rao, comparative evaluation of the toxicity of elsan in continuous flow and static systems with reference to oxygen consumption and excretion in *O. punctatus* (Bloch), Ind. J. Fish., 28:254-258 (1981).

General Scientific Articles

1. K.R.S.Sambasiva Rao, K.S.P.Rao and K.V.R. Rao, Pesticides – Their role in food chain cycle, J.Sci. Digest, 5(3):p.29 (1982)

2. K.R.S.Sambasiva Rao, K.S.P.Rao and K.V.R.Rao, Pollution as a threat to nation, J.Sci. Digest, 5(8): 16-18 (1982)

3. A.Ramakrishna, K.R.S. Sambasiva Rao, K.S.P.Rao and K.V.R.Rao, An analysis of fishing potentiality and economic viability of Thummalapenta sea coast published in the Sovereign, UGC Economic Conference, March (1982).

4. K.S.P. Rao, K.R.S. Sambasiva Rao and K.V.R.Rao, Power Generators in Fishes, J.Sci. Digest 5(11): 29-31 (1982).

5. Kannan Shah, K.R.S.Sambasiva Rao and K.V.R. Rao, Fishes and their food value, Telugu Scientific Journal, 29: 20-25 (1983).

6. K.R.S. Sambasiva Rao and D.B.Rao, Venomous fishes, J.Sci. Digest, 22 (7&8):

11-16 (1985)

7. D.B.Rao, K.R.S.Sambasiva Rao and N.S.R.Prasad, Fishes and their economic value, Junior Scientist, 22(9): 5-7 (1985)
8. D.B.Rao, K.R.S.Sambasiva Rao and J.C.S.Rao, Fish culture in paddy fields, Junior Scientist, 22(12): 9-10 (1985).
9. K.R.S.Sambasiva Rao, Encephalitis, Science Promoter 2(1): 8-9 (1989)
10. V.V.Vardhani and K.R.S.Sambasiva Rao, Obesity - a metabolic disorder, Science Promoter, 2(5): 334 (1989).
11. D.B.Rao and K.R.S.Sambasiva Rao, Can we determine body's sex before hand, Science Promoter, 2(11): 841&848 (1989).
12. M.Krishna Sri and K.R.S.Sambasiva Rao, Disorders of Eye – Nervous system, Science Promoter, 4(6): 361-362 (1991).
13. K.R.S.Sambasiva Rao, M.Krishna Sri and V.V.Rao, Allergy - an abnormal sensitivity, Science Promoter, 4(5): 259-261 (1991).
14. K.R.S.Sambasiva Rao, Freshwater Fish Culture, Science Promoter (Telugu), 1(1): 6-8 (1991).
15. K.R.S.Sambasiva Rao, Brackish water prawn culture, Science Promoter (Telugu), 1(2): 136-139.
16. D.B.Rao, K.R.S.Sambasiva Rao, V.Muddu and M.Malla Reddy, National Integration - a challenge before us, The Educational Review, CVII(9): 153-155 (1991).
17. K.R.S.Sambasiva Rao, Eating habits for good health, Science Promoter, 5(7): 408-410 (1992).
18. K.R.S.Sambasiva Rao, Aaharapu Alavatlu - Arogyam, Science Promoter (Telugu), 2: 838-840 (1992).
19. K.R.S.Sambasiva Rao, First aid - its importance, Science Promoter, 5(4): 299-300 (1992).
20. K.R.S.Sambasiva Rao, Arogyam, Science Promoter (Telugu, 3(3): 200-201 (1993).
21. D.B.Rao, K.R.S.Sambasiva Rao and N.S.R.Prasad, Teaching learning strategies in environmental education, In: Environmental Education – Problems and Prospects, Discovery Publishing House, New Delhi, 146-156 (1998)

22. K.R.S.Sambasiva Rao, Ozone pora vichinnatha – Dani prabhavalu (Depletion of Ozone layer – its effects, GramaSwrajya, 5(10&11): 4-5 (2008)
23. K.R.S.Sambasiva Rao, Recent Trends in Medical Sciences – Stem Cells, Health Help, 7(2): 5-9 (2008)
24. K.R.S.Sambasiva Rao. Emerging trends in biotech–Indian perspective. Pharmabiz.com (2015)

Patents

1. KK Pulicherla, Ramakrishna GVS, Anmol Kumar and K.R.S. Sambasiva Rao. "An improved process for the production of *E.coli* compatible multifunctional staphylokinase variant for effective thrombolytic therapy with reduced reocclusion activity". File No.: 2691/CHE/2011. **Published in March, 2014**
2. KK Pulicherla, Mrinmoy Ghosh, P.Suresh Kumar and K. R. S. Sambasiva Rao. "Production of a cold active β -Galactosidase from a novel marine psychrophilic *Thalassospira* Species and an improved process to increase its yield for industrial use thereof". File No.: 2772/CHE/2011. **Published in March, 2014**
3. KK Pulicherla and K.R.S. Sambasiva Rao. "Novel staphylokinase variant with improved pharmacokinetics and reduced immunogenicity". File No.: 4317/CHE/2011.
4. KK Pulicherla and K.R.S. Sambasiva Rao. "Engineered staphylokinase targeting blood brain barrier for effective blood clot dissolution". File No.: 4318/CHE/2011.
5. M Gopikrishna, KRS Sambasiva Rao, Kommineni Ravindra, Md.Touseef Ahamad Ch. Tirumala Rao, Replacement of Stainless Steel with Biodegradable Magnesium Alloys in Medical Implantations – A New Approach (Filed on 31-12-2016)
6. S.Nagakishore Bhavnam, P Siddaiah, KRS Sambasiva Rao, Vasujadevi M, B Nhaslara Rao, KL Bhavani, M Sekhar, Development of Phased Array Antenna in Multiband Applications using HFSS 14.0 (Ref. No.E-2/1470/2016-CHE, Application No.201641016109, CBR No.9795, dt. 11-4-2016)
7. Sarojini Chivuluri, D.Srinivasa Rao and K.R.S.Sambasiva Rao, Isolation of Alkaline Proteases Producing Soil Fungi *Talaromyces Radicus* KRSS (Application No. 201641042091; Ref.No. E-2/3608/2016-CHE, 9-1202016)

Submissions in NCBI/Gene Bank Submissions

- **EF 122253**(*sak* gene isolated from *Staphylococcus aureus* obtained from wound sample.
- **JQ 328041**(16SrDNA sequence of a novel bacterial isolate from Deep marine water of Bay of Bengal)

Rajasekhar P, Sambasiva Rao K R S and Kalidas P, 2008. *Beauveria bassiana* strain NCIM1216 chitinase (*chit1*) gene GI: EU828354.

Culture Deposition (Novel bacterial species from Deep waters of Bay of Bengal)

Two novel bacterial species producing cold active enzymes have been deposited in **MTCC (Deposition No: 11253), IMTECH Chandigarh and NCIM (5438), Pune.**

Presentations (Abstracts)

1. K.R.S.Sambasiva Rao and K.V.R.Rao, The toxic effects of elsan on oxygen consumption and ammonia excretion of the fish, *O. punctatus* (Bloch) in static and continuous flow system, 1st All India Conference on Limnology held at NagarjunaUniversity, Guntur (1982)
2. K.S.P.Rao, K.R.S.Sambasiva Rao and K.V.R.Rao, Studies on changes in the body weight, water content and ionic composition in the teleost, *T. mossambica* (Peters) under methyl parathion stress, World Environmental Day Celebrations, S.V.University, Tirupathi, India (1982)
3. I.K.A.Sahib, K.R.S.Sambasiva Rao, K.S.P.Rao and K.V.R.Rao, Studies on the dehydrogenase systems of the teleost, *T. mossambica* (peters) under augmented sublethal malathion stress, World Environmental Day Celebrations held at S.V. University, Tirupathi, India (1982)
4. K.S.P.Rao, K.R.S.Sambasiva Rao, T.Kowsalya and K.V.R.Rao, Electrophoretic study of esterases in a freshwater fish, *T. mossambica* under sublethal toxicity of methyl parathion, All India Symposium on Physiological Responses of Animals to Pollutants, MarathwadaUniversity, Aurangabad (1982)
5. K.S.P.Rao, I.K.A.Sahib, K.R.S.Sambasiva Rao and K.V.R.Rao, Toxicity of malathion on some functional aspects of liver protein metabolism of fish, *T.mossambica* (Peters), II All India Symposium on Comparative Animal Physiology held at Jaipur (1983)
6. K.R.S.Sambasiva Rao and K.V.R.Rao, Some observations on the physical, morphological and behavioural changes in *Channa punctatus* under insecticide synergism, Proc. 72nd Ind. Sci.Cong., Part III, Lucknow (1985)
7. J.C.S. Rao, D.S.Kumari and K.R.S.Sambasiva Rao, Phycological studies of three water bodies in Tenali town, International Workshop on Surface Water Management held at Bhopal, Jan. 17-18 (1986)
8. K.R.S.Sambasiva Rao, Combined toxicity of carbaryl and phenthoate on Indian snakehead, *C. punctatus*, Perspectives in Hydrobiology, Ujjain, February 8-10 (1986)
9. Y.Radhakrishna, P.S.R.Anjaneyulu, M.R.Bennyson and K.R.S.Sambasiva Rao, Dietary influence of supplementary feed on the growth rate of *Catla catla* fry and fingerlings, National Symposium on Aquatic Biology held Andhra Univ. Waltair (1987)
10. G.Prabhakara Rao, Y.Radhakrishna and K.R.S.Sambasiva Rao, Plankton productivity in fish nurseries with different fertilizers, National Seminar on Freshwater Aquaculture held at NagarjunaUniversity, Guntur (1987)
11. K.R.S.Sambasiva Rao and K.V.R.Rao, Combined action of carbaryl and phenthoate on tissue specific alteration of aminotransferases in the fish, *Channa punctatus* (Bloch), Recent Trends in Immunobiology & Biochemistry held at Ujjain (1988)

12. K.R.S.Sambasiva Rao and K.V.R.Rao, Synergistic action of carbaryl and phenthoate on the respiratory metabolism of *Channa punctatus* (Bloch), 72nd Annual Meetings of FASEB held at Los Vegas (USA), March 1-5 (1988)
13. K.R.S.Sambasiva Rao and K.V.R.Rao, Effect of carbaryl and phenthoate on protein metabolism in the fish, *Channa punctatus* (Bloch), 73rd Annual Meetings of FASEB held at New Orleans (USA), March 19-23 (1989)
14. K.R.S.Sambasiva Rao, Physiological alterations in the fish, *Channa punctatus* during carbaryl and phenthoate exposure, Indian Zoological Congress held at Warangal (1989)
15. K.R.S.Sambasiva Rao and K.V.R.Rao, Metabolic alterations in *C. punctatus* during carbaryl and phenthoate intoxication, Nat. Symp. on Comp. Animal Physiol. & Marine World held at Vizag, March 26-28 (1990)
16. V.D.Raj Kumar, J.K.Rao and K.R.S.Sambasiva Rao, Variations in the pollution load of the two water bodies in Guntur district, A.P.-Algae as a biological indicators, Pollution Symposium held at NUPG Centre, Nuzividu, A.P.India (1996)
17. M.S.Rao, K.Vivek Babu, Y.Sireesha and K.R.S.Sambasiva Rao, Comparative study on the influence of alginate concentration and gelling conditions on diffusion and mechanical strength of Barium and Calcium alginate beads, CHEMICON-'98 held at Andhra University, Visakhapatnam, India (1998)
18. K.R.S.Sambasiva Rao, Toxic interaction of bioavailable pesticides Carbaryl and Phenthoate on the edible freshwater fish, *Channa punctata* (Bloch), Bioavailability 2001, Adelaide, Australia, April, 2001.
19. P.B.Kavi Kishor, K.R.S.S.Rao, M.Bowman, V.Patel, R.K.Hite, K.A.Smith, C.F. Culpepper, K.Mudambi, D.Guidot, A.A.Nanji and R.Polavarapu, Modulation of cytokines and major histocompatibility complex (MHC) molecules in pulmonary tissue of ethanol tissue of ethanol fed rats, UGC-Seminar on Changing Horizons in Genetics-Human Welfare, Osmania University, India (2001)
20. K.R.S.S.Rao, P.B.Kavi Kishor, K.A.Smith, M.L.Bowman and R.Polavarapu, Expression of ethanol metabolizing enzymes in the human breast tissue and establishment of histoculture to study metabolic activation of alcohol, UGC-Seminar on Changing Horizons in Genetics-Human Welfare, Osmania University, India (2001)
21. K.S.B.Naidu, N.S.Reddy and K.R.S.Sambasiva Rao, Biodegradation of textile dyes by *P.chrysosporium*, NSERD-II, S.V.University, Tirupathi, India (2002)
22. K.D.Raj Kumar, K.S.B.Naidu and K.R.S.Sambasiva Rao, Assessment of polluted drinking water ponds by some physico-chemical and biological parameters, NSERD-II, S.V.University, India (2002)
23. P.Rajasekhar, P.B.Suresh, N.S.Reddy, G.V.Rao and K.R.S. Sambasiva Rao, Decolourization of basic dyes by using a bacterial isolate CBTNU 111, National Seminar on Environmental Biotechnology, Nagarjuna University, India (2002)
24. B.Ravi Kumar, P.J. Kalyani, M.Lakshmi Prasad and K.R.S.Sambasiva Rao, Production of

- biofuel (ethanol) from spoiled cereals by using *Zymomonas mobilis*, National Seminar on Environmental Biotechnology, Nagarjuna University, India (2002)
25. M.Snehalatha, N.Suresh, N.S.Reddy and K.R.S.Sambasiva Rao, Optimization of physico-chemical parameters for the production of therostable alpha amylase from *Bacillus Licheniformis* (MTCC 1483), National Seminar on Environmental Biotechnology, Nagarjuna University, India (2002)
 26. R.Padmini, N.S.Reddy, G.V.Rao and K.R.S.Sambasiva Rao, isolation and screening of microorganisms for the production of thermostable alpha amylase, National Seminar on Environmental Biotechnology, Nagarjuna University, (2002)
 27. Kareemunnisa Begum, G.V.Rao, N.S.Reddy and K.R.S.Sambasiva Rao, Biodegradation of printing dyes using microbes and their potential application for control of soil pollution, National Seminar on Environmental Biotechnology, Nagarjuna University, India (2002)
 28. G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, PCR based identification of microbial carriers for white spot syndrome virus in cultured *Penaeus monodon*, National Seminar on Environmental Biotechnology, Nagarjuna University, India (2002)
 29. R.Swetha Priya, R.K.Patel, K.R.S.Sambasiva Rao and K.M.Singh, Banding pattern induced by restriction enzymes on buffalo chromosomes, National Seminar on Modern Biology, Nagarjuna University (2003)
 30. A.Sushma Deepthi, R.K.Patel, K.R.S.Sambasiva Rao and K.M.Singh, Restriction endonuclease banding pattern in cattle chromosomes, National Seminar on Modern Biology, NagarjunaUniversity (2003)
 31. P.Jaganmohan Rao, G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, White muscle disease in *Macrobrachium rosenbergii* – an approach towards identification of causative agents, National Seminar on Modern Biology, Nagarjuna University (2003)
 32. K.Sitaramaiah, K.Lavanya, N.S.Reddy and K.R.S.Sambasiva Rao, Comparative studies on the susceptibility of commercial mango yoghurt prepared by using probiotics, National Seminar on Modern Biology, Nagarj.Univ. (2003)
 33. T.Anil Kumar, G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, Detection of hepatopancreatic parvo virus in shrimp farming of east coast India, National Seminar on Modern Biology, NagarjunaUniversity (2003)
 34. E.Ramamohana Rao, G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, Correlation between chromatophore pattern and Mondon bacculovirus (MBV) infection in *Penaeus monodon*, National Seminar on Modern Biology, Nagarjuna University (2003)
 35. D.L.Kanth, P.Anuradha, Y.M.Prasad, N.S.Reddy and K.R.S. Sambasiva Rao, Distribution and antimicrobial activity of Actinomycetes isolated from dumping yard soil, National Seminar on Modern Biology, NagarjunaUniversity (2003)
 36. R.Preeti Sagar, K.Sitaramaiah, N.S.Reddy and K.R.S. Sambasiva Rao, Standardization of sweet flavoured yoghurt and its impact on cholesterol levels of human volunteers in age group of 20-22 years, National Seminar on Modern Biology, NagarjunaUniversity (2003)

37. N.S.Reddy and K.R.S.Sambasiva Rao, Studies on the production of thermostable alpha amylase from *Bacillus licheniformis*, National Seminar on Modern Biology, Nagarjuna University (2003)
38. G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, Correlation analysis of viral infection in shrimp farming practice – an approach towards integrated management, National Seminar on Modern Biology, Nagarjuna University (2003)
39. G.V.Rao, N.S.Reddy, P.Sudhakar and K.R.S.Sambasiva Rao, Shape memory biomaterial in transplantation and tissue engineering, National Symposium on Regenerative Medicine and Tissue Engineering, Acharya Nagarjuna University, 28-29 April (2004)
40. K.P.R.Chowdary, K.R.S.Sambasiva Rao and G.B.T.Sundari, Biotechnological studies on mucoadhesive controlled release tables based on HPMC-Mannitol, National Symposium on Regenerative Medicine and Tissue Engineering, Acharya Nagarjuna University, 28-29 April (2004)
41. K.P.R.Chowdary, K.R.S.Sambasiva Rao and Y.Rajyalakshmi, Biotechnological studies on Roefecoxib-bCD complexation: Enhancement of solubility and dissolution rate, National Symposium on Regenerative Medicine and Tissue Engineering, Acharya Nagarjuna University, 28-29 April (2004)
42. K.P.R.Chowdary, K.R.S.Sambasiva Rao and N.Koteswara Rao, Controlled release and sustained hypoglycemic effect of Glipizide from ethylene vinyl acetate microcapsules, National Symposium on Regenerative Medicine and Tissue Engineering, Acharya Nagarjuna University, 28-29 April (2004)
43. N.Annapoorna, N.S.Reddy and K.R.S.Sambasiva Rao, Emerging hyperlipidemias during highly active antiretroviral treatment, National Symposium on Regenerative Medicine and Tissue Engineering, Acharya Nagarjuna University, 28-29 April (2004)
44. Sreedhar Kilaru, PJ Kalyani, Kuladeep Kaur, S.Nicola, V.Rajesh, K.R.S.Sambasiva Rao, Patrick Hoegger and U. Kues, Promoter screening for high laccase expression in the basidiomycete *Coprinus cinereus*, VAAM-Workshop “Stoffwechsel der Plize” (workshop “Metabolism of Fungi” organized by the German Society of General and Applied Microbiology), Senftenberg (Germany) September (2004)
45. N.S.Reddy, N.Padmini, V.Vivekananda, N.Annapoorna and K.R.S.Sambasiva Rao, Studies on the production of thermostable alpha amylase from *Bacillus licheniformis* using different reactor configurations, National Seminar on Bioprocesses and Production Technologies, Acharya Nagarjuna University, 21-23 December (2004)
46. K.P.R.Chowdary, G.Balatripura Sundari and K.R.S.Sambasiva Rao, Role of mucoadhesive polymers in the design of controlled release pharmaceutical products, National Seminar on Bioprocesses and Production Technologies, Acharya Nagarjuna University, 21-23 December (2004)
47. K.P.R.Chowdary, N.Koteswara Rao and K.R.S.Sambasiva Rao, EVA Microcapsules for parenteral controlled release, National Seminar on Bioprocesses and Production Technologies, Acharya Nagarjuna University, (2004)
48. G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, Studies on characteristic distribution

- patterns of white spots in WSSV infected penaeid shrimp, National Seminar on Bioprocesses and Production Technologies, Acharya Nag. Univ., 21-23 December (2004)
49. V.Karunasri, K.V.R.N.S. Ramesh and K.R.S.Sambasiva Rao, Studies on the improvement of biopharmaceutical characters of selected drugs, National Seminar on Bioprocesses and Production Technologies, Acharya Nagarjuna University, 21-23 December (2004)
 50. G.Rathinaraj and K.R.S.Sambasiva Rao, Recirculation system for sustainability of shrimp aquaculture in India, National Seminar on Aquaculture Biotechnology , Acharya Nagarjuna University, 17-18 December, 2005
 51. K.Rajasekhar, G.V.Rao, P.Jaganmohan Rao, A.Ravikumar and K.R.S.Sambasiva Rao, Prevalence and control of soft shell syndrome in *Penaeus monodon* culture ponds, National Seminar on Aquaculture Biotechnology , AcharyaNagarjunaUniversity, 17-18 December, 2005
 52. G.V.Rao, A.Ravi Kumar and K.R.S.Sambasiva Rao, Detection and molecular analysis of genetic variants among Indian isolates of WSSV, National Seminar on Aquaculture Biotechnology , AcharyaNagarjunaUniversity, 17-18 Dec., 2005
 53. K.R.S.Sambasiva and N.Annapooma, Emerging Dyslipidemias as a side effect of HAART for treatment of HIV in a South Indian population, FASEB Annual Meeting and the XXXV International Congress of Physiological Sciences at San Diego, CA USA, organized by FASEB during April 2-6, 2005.
 54. A.Krishna Satya and K.R.S.Sambasiva Rao, *In situ* propagation of *Pterospermum xylocarpum* – An endangered taxon of Andhra Pradesh, India, International symposium on Frontiers in Genetics and Biotechnology- Retrospect and Prospect held at Osmania University, Hyderabad during 8-10 January, 2006.
 55. P. Krishna Kanth, VPB Rekha, G.Gopi Srinivas and K.R.S.Sambasiva Rao, Studies on high level expression and production of therapeutic thrombolytic agent, Staphylokinase, International symposium on Frontiers in Genetics and Biotechnology- Retrospect and Prospect held at Osmania University, 2006.
 56. K.R.S.Sambasiva Rao, P.B.Kavi Kishor, K.A.Smith, M.L.Bowman and R.Polavarapu, Expression of ethanol metabolizing enzymes in the human breast tissue and establishment of histo-culture to study metabolic activation of alcohol., International symposium on Frontiers in Genetics and Biotechnology- Retrospect and Prospect held at Osmania University, Hyderabad during 8-10 January, 2006.
 57. P.B.Kaki Kishor, K.R.S.S.Rao, M.Bowman, V.Patel, R.K.Hite, K.A. Smith, C.F.Culpepper, K. Mudumbi, D.Guidot, A.A.Nanji and R.Polavarapu, Modulation of cytokines and major histocompatibility complex (MHC) molecules in pulmonary tissue of ethanol fed rats, International symposium on Frontiers in Genetics and Biotechnology- Retrospect and Prospect held at Osmania University, Hyderabad during 8-10 January, 2006.
 58. K.Vijaya Kumar, S.G.A. Rao and K.R.S.Sambasiva Rao, Influence of mesenchymal stem cells in the treatment of coronary artery disease, , International symposium on Frontiers in Genetics and Biotechnology- Retrospect and Prospect held at OsmaniaUniversity, Hyderabad during 8-10 January, 2006.

59. Kumar Anmol, K. Seetharam, P. Krishna Kanth, K.R.S. Sambasiva Rao. Biopesticides: Current Status and Future Prospects. International seminar on Environmental Pollution, Ecology and Human Health held at SV University, Tirupathi on July 25-27, 2009
60. K.Vijaya Sudhakar, D.Srinivasa Rao and K.R.S.Sambasiva Rao, Characterization of Heparin-Stabilized Nanoparticles for the treatment of Isoprene induced Cardiac disease. International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, AcharyaNagarjunaUniversity, December 2009
61. V.Vasant Kumar, K.R.S.Sambasiva Rao, A.Subburam. Production and Purification of Alkaline Protease from *Acremonium sporosulcatum* SP. Nov. and its Biotechnological importance. International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, AcharyaNagarjunaUniversity, December 2009
62. U.Srinivasa, J.V.Rao, K.R.S.Sambasiva Rao and K.Divakar. Hypoglycemic activity of *Clerodendrum phlomidis* leaves. International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, AcharyaNagarjunaUniversity, December 2009
63. S.Selvaraj, Gokul Shankar, V.Nirmala, K.Selvapriya, Sudhakar Podha and K.R.S.Sambasiva Rao. Rapid, Simple PVP based method for Direct PCR from Plant leaves. International Symposium on Emerging Trends in Biomedical and Nanobiotechnology: Relevance to Human Health, AcharyaNagarjunaUniversity, December 2009
64. D.Srinivasa Rao and K.R.S.Sambasiva Rao, Biofuels – A Novel Source for Combating the Energy Crisis, International Conference on Environmental Pollution, water quality control and Human Health, Bangalore University, July 2010.
65. Mrinmoy Ghosh, K.K. Pulicherla, P. Suresh Kumar and K. R. S. Sambasiva Rao. Pectinases from Psychrophiles: A boon to food industry. AP Science Congress Meeting, Hyderabad, 18-20 November, 2010 (2010).
66. P. Suresh Kumar, KK Pulicherla, Mrinmoy Ghosh and KRS Sambasiva Rao. Recombinant Cold active β -Galactosidase from a marine psychrophile: Biotechnological perspective. AP Science Congress Meeting, Hyderabad, 18-20 November, 2010 (2010).
67. P. Suresh Kumar, K.R.S. Sambasiva Rao, KK Pulicherla. Biocatalytic potential of cold active enzymes at low temperatures. National Conference on Emerging trends in Biopharmaceuticals: Relevance to human health, 11-13th November, 2010, ThaparUniversity, Patiala (2010)