

FACULTY PROFILE



1	Name	Dr. K.S. Girish		
2	Present Designation	Associate Professor		
3	Department	Biochemistry		
4	Date of Birth	22-06-1976		
5	Date of entry into service in Tumkur University	October 19 th 2012		
6	Date of entry into the Present Designation	October 19 th 2012		
7	Residential Address	# 3294, 21/A Cross, Vijayanagara 2 nd Stage, Mysore-570 017		
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10	PAN No.	BQVPS9353Q		
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12	Passport No.	E 6284566		
13	Academic Qualification			
	Degree	University	Year of Award	
a	Post Graduate Degree	University of Mysore	1998	
b	M.Phil.			
c	Ph.D.	University of Mysore	2005	
	Ph.D. Topic:	Isolation, Characterization and Inhibition of Hyaluronidase from Indian Cobra (Naja naja) venom		
	Guided By:	Prof. K. Kemparaju		
14	NET – Year of Passing			
15	SLET/KSET – Year of Passing		2001	
16	Area of Research Specialization	Venom pharmacology, ECM biology, Platelet Biology		
17	Teaching Experience			
	Designation	From	To	Place
	Postdoctoral fellow/Research Associate	March 2004	October 2007	University of Pittsburgh/University of Virginia, USA
	Assistant Professor	March 2007	October 2012	University of Mysore
	Associate Professor	October 2012	Till date	Tumkur University
18	Administrative Experience			
	Designation	From	To	Place
	Nil			

19	Research Guidance		
A	Ph.D.		
	Name of Student	Thesis	Year
B	M.Phil.	Nil	
	Name of Student	Thesis	Year
	Nil		

20	Papers Presented/ Lecturers Delivered/ Sessions Chaired in Conference and Symposia (International)	(Tick below)		
	Details	Paper Presented	Lecture Delivered	Session Chaired
	Girish KS , James R, Park A, Hogan MV, Balian G, Chhabra AB. <i>Expression of Matrix and Tendon Specific Cellular Markers by Rat Adipose Derived Mesenchymal Stem Cells Treated with Growth Differentiation Factor-5</i> . International Conference on Anatomical and Cell Biology Sciences. National University of Singapore, Singapore, May 26 th to May 30 th 2010 .	Yes		
	Girish KS , Roshan J, Balian G, Chhabra A: Treatment with GDF-5 induces tendinogenic differentiation of adipose derived stromal cells. 53rd Orthopedic Research Society meeting, San Deigo, CA, USA. March 2007	Yes		
	Girish Kesturu , LianFu Wang, Charles R. Rinaldo, Jr., and Raj Shankarappa: Quantitative Considerations in the Assessment of Hepatitis C Virus Quasispecies. 3rd Annual Richard L. Simmons Lecture in Surgical Science and Department of Surgery Research Day. University of Pittsburgh, Pittsburgh, USA. April 27 th 2005	Yes		
21	Papers Presented/ Lecturers Delivered/ Sessions Chaired in Conference and Symposia (National)	(Tick below)		
	Details	Paper Presented	Lecture Delivered	Session Chaired
1	Bioactive peptide from Buffalo colostrums β -lactoglobulin- Isolation and characterization. National conference on Recent Discoveries in Protein Science. Organized by Karnataka State Higher Education Council and Centers for Bioscience and Innovation, Bioinformation. Tumkur University Jan 2013.		Yes	
2	Crocin, a dietary Colorant Mitigates Arthritis and Associated Secondary Complications. National conference on Food Processing and Technology for Health Progression. Organized by Department of Food and Nutrition, Periyar University, Salem, India Jan 2013		Yes	
3	<i>Vipera russelli</i> venom induced oxidative damage on blood components: Amelioration by Crocin, a dietary colorant. National conference on Snakebite management, 2 nd Annual conference of Toxinological society of India. Organized by University of Mysore, Karnataka State Open University and Toxinological Society of India. Dec 2012.		Yes	

4	Crocin: A common dietary colorant as an anti-arthritis agent. National conference on perspectives on health benefits of therapeutic molecules. Organized by Karnataka state higher education council and Centers for Bioscience and Innovation, Bioinformation. Tumkur University. Jan 2012.		Yes	
5	Microparticles: Number and Size Does Matter. Organized by Indian Council of Medical Research and Centers for Bioscience and Innovation, Bioinformation. Tumkur University, 2011.		Yes	
22	Books	02		
	Chapters	03		
	Details			
	Hyaluronidase, a Potential Target for the Management of Snakebite. Edited by Girish KS and Kemparaju K. Published by LAP Lambert Academic Publications on July 25 th 2013 (ISBN # 978-3-659-37808-9).			
	Materials: Design, Synthesis and Applications. Edited by Sharma SC, Girish KS, Nagabhushan H, Sharathchandra RG, Ramesh TN, Devaraja S. Published by Karnataka State Higher Education Council			
	Kemparaju K, Girish KS and Nagaraju S. Hyaluronidases, a neglected class of glycosydases from snake venom: beyond a spreading factor in "Hand Book of Venoms and Toxins of Reptiles" (ISBN #: 978-0-8493-9165-1), August 2010, CRC Press LLC.			
	Hemshekhar M, Kemparaju K, and Girish KS* . An overview on remedial qualities of <i>Tamarindus indica</i> seeds. Book Chapter in " Nuts and Seeds in Health and Disease Prevention " Edited by Victor R Preedy, Academic Press-Elsevier, May 2011 (ISBN #: 978-0-12-375688-6).			
	Girish KS , Devaraja S, Thushara RM, Hemshekhar M, Kemparaju K, Jayaramu M. Bioscaffold Based Treatment Options for Tendon Repair and Regeneration. Book chapter in "Collection of Lectures on Discovery and Applications of Innovative Materials" Edited by Prof. S.C. Sharma and Prof. K.M. Kaveriappa, Karnataka State Higher Education Council, November 2012 (ISBN #: 978-81-923301-5-0)			
23	Research Publications in Refereed Journals			
	Details			
1	Girish KS , Paul M, Thushara RM, Hemshekhar M, Shanmuga Sundaram M, Rangappa KS, Kemparaju K. Melatonin elevates apoptosis in human platelets via ROS mediated mitochondrial damage. Biochemical Biophysical Research Communications 438, 198-204, 2013.			
2	Thushara RM, Hemshekhar M, Sunitha K, Kumar MS, Naveen S, Kemparaju K, Girish KS . Sesamol induces apoptosis in human platelets via reactive oxygen species-mediated mitochondrial damage. Biochimie 95, 2060-2068, 2013.			
3	Santhosh MS, Sundaram MS, Sunitha K, Kemparaju K, Girish KS . Viper venom-induced oxidative stress and activation of inflammatory cytokines: a therapeutic approach for overlooked issues of snakebite management. Inflammation Research 62, 721-731, 2013.			
4	Jnaneshwari S, Hemshekhar M, Santhosh MS, Sunitha K, Thushara R, Thirunavukkarasu C, Kemparaju K, Girish KS . Crocin, a dietary colorant, mitigates cyclophosphamide-induced organ toxicity by modulating antioxidant status and inflammatory cytokines. Journal of Pharmacy and Pharmacology 65, 604-614, 2013.			
5	Hemshekhar M, Sunitha K, Thushara RM, Sebastin Santhosh M, Shanmuga Sundaram M, Kemparaju K, Girish KS . Antiarthritic and antiinflammatory propensity of 4-methylesculetin, a coumarin derivative. Biochimie 95, 1326-1335, 2013.			
6	Sunitha K, Hemshekhar M, Thushara RM, Santhosh MS, Yariswamy M, Kemparaju K, Girish KS . N-Acetylcysteine amide: a derivative to fulfill the promises of N-Acetylcysteine. Free Radical Research 47, 357-367, 2013.			
7	Devaraja S, Girish KS , Santhosh MS, Hemshekhar M, Nayaka SC, Kemparaju K. Fusaric acid, a mycotoxin, and its influence on blood coagulation and platelet function. Blood Coagulation and Fibrinolysis 24, 419-423, 2013.			
8	Sunitha K, Suresh P, Santhosh MS, Hemshekhar M, Thushara RM, Marathe GK, Thirunavukkarasu C, Kemparaju K, Kumar MS, Girish KS . Inhibition of hyaluronidase by N-acetyl cysteine and glutathione: role of thiol group in hyaluronan protection. International Journal of Biological Macromolecules 55, 39-46, 2013.			

9	Hemshekhar M, Thushara RM, Jnaneshwari S, Devaraja S, Kemparaju K, Girish KS . Attenuation of adjuvant-induced arthritis by dietary sesamol via modulation of inflammatory mediators, extracellular matrix degrading enzymes and antioxidant status. European Journal of Nutrition 52, 1787-1799, 2013.
10	Thushara RM, Hemshekhar M, Sebastin santhosh M, Devaraja S, Kemparaju K, Girish KS . Differential Action of Phytochemicals on Platelet Apoptosis: A Biological Overview. Current Medicinal Chemistry 20, 1018-1027, 2013.
11	Thushara RM, Hemshekhar M, Santhosh MS, Jnaneshwari S, Nayaka SC, Naveen S, Kemparaju K, Girish KS* . Crocin, a dietary additive protects platelets from oxidative stress-induced apoptosis and inhibits platelet aggregation. Molecular and Cellular Biochemistry 373: 73-83, 2013.
12	Sebastin Santhosh M, Hemshekhar M, Thushara RM, Devaraja S, Kemparaju K, Girish KS . Vipera russelli venom-induced oxidative stress and hematological alterations: amelioration by crocin a dietary colorant. Cell Biochemistry and Function 31, 41-50, 2013.
13	Sebastin Santhosh M, Hemshekhar M, Sunitha K, Thushara RM, Jnaneshwari S, Kemparaju K, Girish KS* . Snake Venom Induced local toxicities: Plant Secondary Metabolites as an Auxiliary Therapy. Mini-reviews in Medicinal Chemistry 13: 106-123, 2013.
14	Sebastin Santhosh M, Thushara RM, Hemshekhar M, Sunitha K, Devaraja S, Kemparaju K, Girish KS . Alleviation of Viper Venom Induced Platelet Apoptosis by Crocin (<i>Crocus sativus</i>): Implications for Thrombocytopenia in Viper Bites. Journal of Thromb Thrombolysis 2013 (In press).
15	Samy RP, Gopalakrishnakone P, Stiles BG, Girish KS , Swamy SN, Hemshekhar M, Tan KS, Rowan EG, Sethi G, Chow VT. Snake Venom Phospholipases A2: A Novel Tool Against Bacterial Diseases. Current Medicinal Chemistry 19: 6150-6162, 2012.
16	Hemshekhar M, Sebastin Santhosh M, Sunitha K, Thushara RM, Kemparaju K, Rangappa KS, Girish KS . A dietary colorant crocin mitigates arthritis and associated secondary complications by modulating cartilage deteriorating enzymes, inflammatory mediators and antioxidant status. Biochimie . 94: 2723-2733, 2012.
17	Yashonandana J Goutham, Kumar MS, Girish KS , Kemparaju K. Hemostatic interference of Indian King cobra (<i>Opiophagus hannah</i>) venom: Comparison with three snake venoms of the sub-continent. Biochemistry (Mos) . 77: 639-647, 2012.
18	Hemshekhar M, Sebastin Santhosh M, Kemparaju K, Girish KS . Emerging Roles of Anacardic Acid and Its Derivatives: A Pharmacological Overview. Basic and Clinical Pharmacology and Toxicology , 110, 122-132, 2012.
19	Dhananjaya BL, Zameer F, Girish KS , D'Souza CJ. Anti-venom potential of aqueous extract of stem bark of <i>Mangifera indica</i> L. against <i>Daboia russellii</i> (Russell's viper) venom. Indian Journal of Biochemistry Biophysics . 48(3):175-83, 2011.
20	Nagaraju S, Girish KS , Pan Y, Easely KA, Kemparaju K. Estimation of serum hyaluronidase activity overcoming the turbidity interference. Clinical Laboratory Science 24: 172-177, 2011.
21	Sunitha K, Hemshekhar M, Gaonkar SL, Sebastin Santhosh M, Suresh Kumar M, Basappa, Priya BS, Kemparaju K, Rangappa KS, Nanjunda Swamy S, Girish KS* . Neutralization of hemorrhagic activity of viper venoms by 1-(3-dimethylaminopropyl)-1-(4-fluorophenyl)-3-oxo-1,3-dihydroisobenzofuran-5-carbonitrile. Basic and Clinical Pharmacology and Toxicology 109: 292-299, 2011.
22	Hemshekhar M, Sunitha K, Sebastin Santhosh M, Devaraja S, Kemparaju K, Vishwanath BS, Niranjana SR and Girish KS* . An overview on Genus <i>Garcinia</i> : Phytochemical and therapeutical aspects. Phytochemistry Reviews 10: 325-351, 2011.
23	Girish KS and Kemparaju K. Overlooked Issues of Snakebite Management: Time for Strategic Approach. Current Topics in Medicinal Chemistry 11: 2494-2508, 2011.
24	Sunitha K, Hemshekhar M, Sebastin Santhosh M, Suresh Kumar M, Kemparaju K, Girish KS* . Inhibition of Hemorrhagic Activity of Viper Venoms by N-acetyl Cysteine: Involvement of N-acetyl and Thiol Groups. Current Topics in Medicinal Chemistry 11: 2589-2600, 2011.
25	Mahadeswaraswamy YH, Kumar MS, Gowtham YJ, Nagaraju S, Girish KS and Kemparaju K. The polyphenol 3, 4, 5-tri-hydroxy benzoic acid inhibits Indian <i>Daboia russelli</i> venom and its hemorrhagic complex induced local toxicity. Current Topics in Medicinal Chemistry 11: 2520-2530, 2011.
26	Mahadeswaraswamy YH, Manjula B, Devaraja S, Girish KS and Kemparaju K. <i>Daboia russelli</i> venom hyaluronidase: Purification, characterization and inhibition by β -3-(3-hydroxy-4-oxopyridyl) α -amino-propionic acid. Current Topics in Medicinal Chemistry 11: 2556-2565, 2011.
27	Kumar MS, Girish KS , Vishwanath BS, Kemparaju K. The metalloprotease, NN-PF3 from <i>Naja naja</i> venom inhibits platelet aggregation primarily by affecting α 2 β 1 integrin. Annals of Hematology 90: 569-577, 2011.

28	Keller TC, Hogan MV, Girish KS , James R, Balian G, Chhabra AB. Growth/differentiation factor-5 modulates the synthesis and expression of extracellular matrix and cell-adhesion related molecules of rat Achilles tendon fibroblasts. Connective Tissue Research 52: 353-364, 2011.
29	Devaraja S, Girish KS , Gowtham YN, Kemparaju K. The Hag-Protease-II is a fibri(ogen)ase from <i>Hippasa agelenoides</i> spider venom gland extract: Purification, characterization and its role in hemostasis. Toxicon 57: 248-258, 2011.
30	Girish KS , Hogan M, James R, Balian G, Hurwitz S, Chhabra A. Growth differentiation factor-5 regulation of extracellular matrix gene expression in murine tendon fibroblasts. J. Tissue Engineering and Regenerative Medicine 5: 191-200, 2011.
31	Park A, Hogan MV, Girish KS , James R, Balian G, Chhabra AB. Adipose-derived mesenchymal stem cells treated with Growth differentiation factor-5 express tendon-specific markers. Tissue Engineering (Part A) . 16: 2941-2951, 2010.
32	Devaraja S, Girish KS , Devaraj VR, Kemparaju K. Factor Xa-like and fibrin (ogen)olytic activities of a serine protease from <i>Hippasa agelenoides</i> spider venom gland extract. Journal of Thrombosis and Thrombolysis 29: 119-126, 2010.
33	Ushanandini S, Nagaraju S, Chandra Nayaka S, Harish Kumar K, Kemparaju K, Girish KS . The Anti-ophidian Properties of <i>Anacardium occidentale</i> bark extract. Immunopharmacology and Immunotoxicology 31: 607-615, 2009.
34	Girish KS , Kemparaju K, Nagaraju S and Vishwanath BS. Hyaluronidase Inhibitors: A biological and Therapeutic Perspective. Current Medicinal Chemistry 16: 2261-2288, 2009.
35	Sharma R, Mahadeshwara swamy YH, Harish kumar K, Devaraja S, Vishwanath BS, Kemparaju K and Girish KS* . Effect of anticoagulants on plasma hyaluronidase activities. Journal of Clinical Laboratory Analysis 23: 29-33, 2009.
36	Devaraja S, Nagaraju S, Mahadeswaraswamy YH, Girish KS , Kemparaju K. A low molecular weight serine protease: Purification and characterization from <i>Hippasa agelenoides</i> (funnel web) spider venom gland extract. Toxicon 52: 130-138, 2008.
37	James R, Kesturu GS, Balian G, Chhabra AB. Tendon: Biology, Biomechanics, Repair, Growth Factors, and Evolving Treatment Options. American Journal of Hand Surgery 33: 102-112, 2008.
38	Mahadeshwara swamy YH, Nagaraju S, Girish KS and Kemparaju K. Neutralization of Saw-scaled viper (<i>Echis Carinatus</i>) venom induced local effects and some enzymes by Mimosa pudica root extract. Phytotherapy Research 22: 963-969, 2008. Impact factor: 2.1
39	Nagaraju S, Girish KS, Fox JW and Kemparaju K. 'Partitagin' a hemorrhagic metalloprotease from <i>Hippasa partite</i> spider venom: Role in tissue necrosis <i>Biochimie</i> 89: 1322-1331, 2007.
40	Girish KS and Kemparaju K. The magic glue hyaluronan and its eraser hyaluronidase: a biological overview. Life Sciences 80: 1921-1943, 2007.
41	Girish KS , Deepa M, Ushanandini S, Harish Kumar K, Nagaraju S, Govindappa M, Vedavathi M and Kemparaju K: Antimicrobial properties of a non-toxic glycoprotein (WSG) from <i>Withania somnifera</i> (Ashwagandha). Journal of Basic Microbiology 46: 365-374, 2006.
42	Nagaraju S, Mahadeswaraswamy YH, Girish KS and Kemparaju K: Biochemical and pharmacological characterization of venom from the spiders <i>H. partita</i> , <i>H. aglenoides</i> and <i>H. mahabaleshwariensis tikadar and malhotra</i> . Comparative Biochemistry and Physiology (Part C) 144: 1-9, 2006.
43	Ushanandini S, Nagaraju S, Harish Kumar K, Vedavathi M, Deepa M, Kemparaju K, Vishwanath BS, Gowda TV, Girish KS : The anti snake venom properties of <i>Tamarindus indica</i> (Leguminosae) seed extract. Phytotherapy Research 20: 851-858, 2006.
44	Deepa K. Machiah, Girish KS and Gowda TV: A glycoprotein from a folk medicinal plant, <i>Withania somnifera</i> , inhibits hyaluronidase activity of snake venoms. Comparative Biochemistry and Physiology (Part C) 143: 158-161, 2006.
45	Girish S Kesturu , Colleton BA, Liu Y, Heath L, Shakil OS, Rinaldo Jr CR, Shankarappa R: Minimization of genetic distances by the Consensus, Ancestral and Center-of-Tree (COT) sequences for HIV-1 variants within an infected individual and the design of reagents to test immune reactivity. Virology 348: 437-448, 2006.
46	Girish KS and Kemparaju K: The hyaluronidase enzyme a prime target for better management of snakebite. Life sciences 78: 1433-1440, 2006.
47	Kemparaju K and Girish KS : Snake venom hyaluronidase: s therapeutic target. Cell Biochemistry and Function 24: 7-12, 2006.
48	Girish KS and Kemparaju K: Inhibition of <i>Naja naja</i> venom hyaluronidase by plant derived bioactive components and polysaccharides. Biochemistry (Mos) 70: 948-952, 2005.

49	Girish KS and Kemparaju K: A low molecular weight isoform of hyaluronidase: purification from Indian cobra (<i>Naja naja</i>) venom and partial characterization. Biochemistry (Mos) 70: 708-712, 2005 .			
50	Vedavathi M, Girish KS and Karunakumar M: Isolation and characterization of alanine aminotransferase isoforms from starved male rat liver. Molecular and Cellular Biochemistry 267: 13-23, 2004 .			
51	Girish KS , Mohan Kumari HP, Nagaraju S, Vishwanath BS and Kemparaju K. Hyaluronidase and Protease activities from Indian snake venoms: Neutralization by <i>Mimosa pudica</i> root extract. Fitoterapia 75: 378-380, 2004 .			
52	Girish KS , Shashidhara murthy R, Nagaraju S, Veerabasappa Gowda TV and Kemparaju K. Isolation and characterization of hyaluronidase a "spreading factor" from Indian cobra (<i>Naja naja</i>) venom. Biochimie 86: 193-202, 2004 .			
53	Girish KS , Jagadeesh DK, Rajeev KB and Kemparaju K., Snake venom hyaluronidase: An evidence for isoforms and extracellular matrix degradation. Molecular and Cellular Biochemistry 240: 105-110, 2002 .			
54	Jagadeesh DK, Shashidharamurthy R, Girish KS and Kemparaju K. A non-toxic anticoagulant metalloprotease: purification and characterization from Indian cobra (<i>Naja naja naja</i>) venom. Toxicon 40: 667-675, 2002 .			
55	Shashidharamurthy R, Jagadeesh DK, Girish KS and Kemparaju K. Variations in biochemical and pharmacological properties of Indian cobra (<i>Naja naja naja</i>) venom due to geographical distribution. Molecular and Cellular Biochemistry , 229: 93-101, 2002.			
24	Research Projects			
A	On going			
	Title of Project	Funding Agency	Duration	Amount Sanctioned
B	Completed			
	Title of Project	Funding Agency	Duration	Amount Sanctioned
	Guggul Proteins: Exploring the role in Hemostasis	UGC	3 Years	11.7 Lakhs
	Anti-arthritic efficacy of Indian Medicinal Plants	MHRD, IOE (UOM)	3 Years	10 Lakhs
25	Membership of Professional Organizations			
	Indian Society for Atherosclerosis Research			
	Toxinological Society of India			
26	Official Foreign Visits			
	Nil			