

BIO-DATA

G. Suresh Kumar, Ph.D.
Principal Scientist
Dept. of Biochemistry
CSIR-CFTRI &
Associate professor in AcSIR
Biological Sciences

Email: - sureshg@cftri.res.in



Education & Training:

- ✓ **Principal scientist (2017-present) Department of Biochemistry, CFTRI, Mysuru**
- ✓ **Scientist (2013-2017) Department of Biochemistry, CFTRI, Mysuru**
- ✓ **Junior Scientist (2009-2013) Department of Lipid science and traditional foods, CFTRI, Mysore**
- ✓ **Visiting scientist (2008-2009) Department of Nephrology McMaster University, Ontario Canada.**
- ✓ **Post-doctoral fellow (2006-2008) Department of Biotechnology, Daegu University, South Korea.**
- ✓ **Ph.D., in Biochemistry (2000-2005) from the University of Mysore, Mysore, India. Ph.D. thesis entitled “Studies on the beneficial effects of dietary fiber on experimentally induced diabetic rats with particular emphasis on glomerular filtration matrix”.**
- ✓ **Master Degree in Bioscience (1997-1999) from the University of Mysore, Mysore. Project work entitled “Studies on Lycopene Cyclase activity in *Haematococcus pluvialis* and *Spirulina platensis* and Plant micropropagation and its commercial application with particular reference to banana” was carried out as a part of the curriculum during Masters Degree.**
- ✓ **Bachelor Degree in Biochemistry, Botany, Microbiology, (BBM) (1994-1997) from the University of Mysore, Mysore.**
- ✓ Faculty Member as Associate professor in AcSIR under Biological Sciences cluster

Projects and students:

I am a member of MLP and other networking projects, currently running one DBT project as PI and CDB project as Co-PI. Apart from this I have guided 5 M.Sc and M.Tec students for their dissertation work and guiding TWO Ph.D students as well as 4 project assistant of various projects.

Techniques:

- ✓ **Molecular biology techniques:**
Isolation of DNA & RNA, Northern blotting, DNA fragmentation studies and Real Time-PCR array for apoptosis, obesity, diabetes and gene cloning.

- ✓ **General Techniques:**
Techniques involved in isolation of polysaccharides, purification and its characterization by Methylation, Smith degradation, Optical rotation, Chromatographic techniques like, Gel permeation, Ion-exchange and Paper Chromatography, TLC, Capillary and Cellulose acetate electrophoresis, isolation and identification of phenolics.
- ✓ **Instruments handled:**
Lyophilizer, HPLC, GLC, GC- MS, FT-IR, ¹³C NMR, SEM, Phase contrast microscopy.
- ✓ **Animal handling:**
Handling laboratory animals, induction of diabetes (Type I) and ob/ob mouse (Type II), retro-orbital and tail blood collection, OGTT, IPGTT, wound healing studies, estimation of glycosylated hemoglobin (HbA1c), *in vivo* culture of Ehrlich Ascites Tumor (EAT) cells in animals (mice), immunization techniques for antibody production in rabbit, isolation of Glomeruli and Glomerular Basement Membrane (GBM) and mesangial cells from kidney, isolation of total proteins, glycoprotein, glycosaminoglycan (GAG) and LDL, measurement of Glomerular Filtration Rate (GFR) and histopathological studies.
- ✓ **Cell culture:**
Expertised in primary cell culture development of mesangial cells from kidney glomeruli and studies in relation to diabetes (high glucose induced oxidative stress and extra-cellular matrix studies), 3T3-L1 cell line studies for obesity (Induction of pre-adipocytes to mature adipocytes and studies on adipogenesis and its apoptosis) and HepG-2 cell line for cancer studies.
- ✓ **Protein analysis:**
Protein isolation and purification, Proteomic studies [2D electrophoresis and analysis by Image Master 2D software V4.95 (Amersham Biosciences)], MALDI-TOF, PAGE, EMSA and enzyme assays.
- ✓ **Immunological techniques:**
ELISA, Western blotting, ECL, Immunohistochemistry, Immunofluorescence techniques, immunocytochemistry, RIA and IRMA (Immunoradiometric assays)
- ✓ **Plant cell culture:**
Development of Banana tissue culture and its propagation
- ✓ **Microbiology:**
Fungal culturing and its optimization, both in micro scale (flask) and macro scale (stirred tank Bioreactor).

Areas of expertise:

- ✓ Biochemistry, Proteomics, Molecular Biology, Glycobiology, Immunotechnology, Histopathology, Oils and fats, Food technology

Projects handled

1. "Studies on the role of rice bran oil and its nutraceutical concentrates in diabetic kidney lipotoxicity in experimental animals" GAP-424 (2013-2016) 23,16,000/-/ 3years as PI (DBT funded)
2. "Development of fermented tender coconut water with lactic cultures and its functional applications" GAP-561 (2019-2021) Rs: 23,68,000/-/2 years as PI (CDB funded)
3. "Medium chain triglycerides (MCTs) enriched oil and its functionality" GAP-594 (2020-2023), Rs 42,10,000/ 3 years as PI (CDB funded)
4. "Identified molecules to downregulate obesity risk factors and development of related dietary product" MLP -245 RS, 4,00,000/- as PI (CSIR-CFTRI funded)
5. "Modulatory Effect of Glycosaminoglycans (GAGs) from Fish Waste on Obesity Induced Atherosclerosis" ICMR –SRF as PI (ICMR)

Patents

1. A novel process for preparation of green *amla* powder. Venkatesh Murthy K, Chetana R, Nitin Sonkar, Suresh Kumar G, Roopa BS. 0036NF2019/IN
2. A continuous grating machine for amla and other similar products. Venkatesh Murthy K, Chetana R, Nitin Sonkar, Suresh Kumar G. DEL 2019 11034252.

Products Filed

1. Chocolates Rich in Healthy Polyphenols- 2019 (A)
2. Glucose Amla beverage mix- PDRUC Filed-2021

Students guided (Ph.D)

Dr. Sharanappa Talawar, Ph.D awarded 2018 on the topic “ **Studies on the beneficial role of wheat bran/germ oil nutraceutical concentrates on high fat fed animals**”

Ms. Moumita Das, submitter her thesis “**Effect of ergosterol extract from white button mushroom (*Agaricus bisporus*) in modulating obesity related complications**”

Publications:

1. **G. Suresh Kumar**, A.K. Shetty., K. Sambaiah and P.V. Salimath (2005). Antidiabetic property of fenugreek seed mucilage and spent turmeric in streptozotocin induced diabetic rats. *Nutrition research*. **25**:1021-1028.
2. **G. Suresh Kumar**, A.K. Shetty and P.V. Salimath (2005). Modulatory effect of fenugreek seed mucilage spent turmeric on intestinal and renal disaccharidases in streptozotocin induced diabetic rats. *Plant Foods for Human Nutrition*. **60**: 87-91.
3. A.K. Shetty, **G.Suresh Kumar** and P.V. Salimath (2005). Effect of bitter gourd (*Momordica Charantia*) on Glycaemic Status in streptozotocin induced diabetic rats. *Plant Foods for Human Nutrition*. **60**:107-110.
4. A.K. Shetty, **G. Suresh Kumar** and P.V. Salimath (2005). Bitter gourd (*Momordica charantia*) modulates activities of intestinal and renal disaccharidases in streptozotocin-induced diabetic rats. *Molecular Nutrition Food Research*. **49**:791-796.
5. **G. Suresh Kumar**, B. Vijayalakshmi and P.V. Salimath (2006). Effect of bitter gourd and spent turmeric on constituents of glycosaminoglycans of different organs in streptozotocin induced diabetic rats. *Mol Cell Biochem*. **286**:53-58.
6. **G. Suresh kumar**, M.A. Harish Nayaka, Shylaja M. Dharmesh and P.V. Salimath (2006). Free and Bound Phenolic antioxidants in Amla (*Embllica officinalis*) and Turmeric (*Curcuma longa*). *Journal of Food Composition and Analysis*. **19**: 446-452.
7. H.J. Hwang, Y.M. Baek, S.W. Kim, **S.G. Kumar**, E.J. Cho, J.Y. Oh, and J.W. Yun (2007). Differential expression of the kidney proteins in streptozotocin induced diabetic rats in response to hypoglycemic fungal polysaccharides. *Journal of Microbiology and Biotechnology*. **17**: 2005-2017.
8. **G. Suresh Kumar**, A.K. Shetty and P.V. Salimath (2008). Modulatory effect of bitter gourd (*Momordica charantia*) on alterations in kidney heparan sulfate in streptozotocin induced diabetic rats. *Journal of Ethnopharmacology*. **115**: 276-283.
9. Md. Atiar Rahman, **Suresh G. Kumar**, Sang Woo Kim, Hye Jin Hwang, Yu Mi Baek, Sung Hak Lee, Hee Sun Hwang, Yun Hee Shon, Kyung Soo Nam, and Jong Won Yun (2008). Proteomic

analysis for inhibitory effect of chitosan oligosaccharides on 3T3-L1 adipocyte differentiation. *Proteomics*. 8: 569-581.

10. Hye Jin Hwang, Sang Woo Kim, Yu Mi Baek, Sung Hak Lee, Hee Sun Hwang, **Suresh G. Kumar**, Md. Atiar Rahman and Jong Won Yun (2008). Differential expression of liver proteins in streptozotocin-induced diabetic rat in response to hypoglycemic mushroom polysaccharides. *Korean Journal of Chemical Engineering*. 25:308-322.
11. **Suresh G. Kumar**, Md. Atiar Rahman, Sung Hak Lee, Hee Sun Hwang, Hyun Ah Kim and Jong Won Yun (2008). Proteome analysis of 3T3-L1 adipocyte differentiation. *Journal of Microbiology and Biotechnology*. 18: 1895-1902. †Equally contributed.
12. Kim HyunAhMd. AtiarRahman. Suresh G.Kumar. Lee SungHakHwang HeeSun.Yun JongWon yun (2008). **Proteome analysis for 3T3-L1 adipocyte differentiation and biomarker discovery in adipogenesis**. *Journal of Biotechnology*. 136: S441-S442
13. B. Vijayalakshmi, **G. Suresh kumar** and P.V. Salimath (2009). Effect of bitter gourd and spent turmeric on constituents of complex carbohydrates in streptozotocin induced diabetic rats. *Journal of Diabetes and Complication*. 23:71-76.
14. **Suresh G. Kumar**, Md. Atiar Rahman, Sung Hak Lee, Hee Sun Hwang, Hyun Ah Kim and Jong Won Yun (2009). Plasma proteome analysis for anti-obesity and anti-diabetic potentials of chitosan oligosaccharides in *ob/ob* mice. *Proteomics* 9(8):2149-2162.
15. D.Wu, Peng, B. Zhang, A.J.Ingram, D.J.Kelly, R.E.Gilbert, B. Gao, **Suresh Kumar** and J.C. Krepinsky (2009). Egr-PLC γ 1 signaling mediates high glucose-induced PKC β 1-Akt activation and collagen I upregulation in mesangial cells. *Am.J.Physiol Renal Physiol* 297:F822-F834.
16. Md. Atiar Rahman, **Suresh G. Kumar** and Jong Won Yun (2010). Proteome analysis in adipose tissue of *ob/ob* mice in response to chitosan oligosaccharides treatment. *Biotechnology and Bioprocess Engineering* 15: 559-571.

17. Uttarwar L, Peng F, Wu D, **Kumar S**, Gao B, Ingram AJ, Krepinsky JC (2011). HB-EGF release mediates glucose-induced activation of the epidermal growth factor receptor in mesangial cells. *Am J Physiol Renal Physiol.* 300: F921- F931.
18. Bhatnagar AS, Prasanth Kumar PK, **Suresh Kumar G**, Gopala Krishna A G. Development of a Process for Preparation of Low Silica Stabilized Rice Bran for use as a Food Supplement” beverage and food world 41 (2014) 50
19. **Suresh Kumar G**, Swathi R, Gopala Krishna AG (2014) Fat-soluble nutraceuticals and their composition in heat-processed wheat germ and wheat bran. *International Journal of Food Sciences and Nutrition*, 65 (3). pp. 327-334.
20. **Suresh Kumar G**, Salimath (2014). Effect of spent turmeric on kidney type IV collagen and heparan sulfate in streptozotocin-induced diabetic rats. *Journal of Diabetes & Metabolic Disorders*, 13:78. doi:10.1186/2251-6581-13-78
21. **Suresh Kumar G** and Gopala Krishna AG (2015) Studies on the nutraceuticals composition of wheat derived oils wheat bran oil and wheat germ oil. *Journal food Science & technology* 52: 1145-51
22. **Suresh Kumar G**, Manubolu Ashok, Gopala Krishna AG. (2015) “Effect of microwave oven and open frying on physico-chemical properties of fried oil and poori”- an Indian fried food. *International Journal of Food and Nutrition Science*, 4:131-136
23. Chetana Ramakrishna, Sharanappa Talawar, **Suresh Kumar G** and Ravi Ramasamy (2015). Development of a sugar free, nutra rich confectionery jelly. *Journal of Food and Nutrition Science*. 4: 148-155.
24. Bhaskaragoud G, Mahendra VP, Rajath Shivkumar, Sunil Kumar G, Gopalakrishna AG, **Suresh Kumar G** (2016). Hypolipidemic mechanism of oryzanol components- ferulic acid and phytosterols- **BBRC 2016**

25. Geetha V, Mohan Kumar AS, Chetana R, Gopala Krishna.A.G, **Suresh Kumar G*(2016)** Evaluation of Hypolipidemic and Hypocholesterolemic Effect of Concentrates of Tender Coconut Water and Phenolics from industrial waste of Coconut in High Fat Fed Rats- accepted Global journal of biology; Agriculture and Health Science. 2016 (5) 25-30.
26. Geetha V, Bhavana KP, Chetana R, Gopala Krishna AG and **Suresh Kumar G*** (2016) Studies on the Composition and In-Vitro Antioxidant Activities of Concentrates from Coconut Testa and Tender Coconut Water. *J Food Process Technol* 7: 588. 2016 doi:10.4172/2157-7110.1000588.
27. Prakruthi Appaiah, Sunil L, Gopala Krishna A.G, **Suresh Kumar G**. Phytochemicals and antioxidant activity of testa extracts of commercial wet and dry coconuts and cakes. *Int. Res. J. Pharm.* 2016, 7 (9). DOI: 10.7897/2230-8407.079106.
28. Sharanappa Talawar, Chetana Ramakrishna, **Suresh Kumar G (2016)**. Evaluation of genotypic wheat bran varieties for nutraceutical compounds- *Journal of Food Science and Technology* 53 (2016) 4316–4324
29. Sharanappa T. Talawar,† Nanishankar V. Harohally,‡ Chetana Ramakrishna,‡ and **G. Suresh Kumar*** (2017),†Development of Wheat Bran Oil Concentrates Rich in Bioactives with Antioxidant and Hypolipidemic Properties. *JAFRC* 2017(45)9838-9848.
30. G. Bhaskaragoud, V. Geetha, T. Sharanappa, A. S. Mohan Kumar, C. Hema Kumar, and G. **Suresh Kumar**. Hypolipidemic and Antioxidant Properties of Oryzanol Concentrate in Reducing Diabetic Nephropathy via SREBP1 Downregulation Rather than Beta Oxidation. *Molecular Nutrition and Food Research*. 2018 (62) 1700511. doi: 10.1002/mnfr.201700511. **(best Paper award)**
31. R. Chetana, K. P. Bhavana, R. Babylatha, V. Geetha, **G. Suresh Kumar**. Studies on eggless mayonnaise from rice bran and sesame oils. *J Food Sci Technol*, 56(2019)3117–3125
32. Mahalingam S Sundaram, Manoj K Neog, Mahaboobkhan Rasool, **G Suresh Kumar**, Mahadevappa Hemshekhar, Kempaiah Kemparaju, "Guggulipid ameliorates adjuvant-induced arthritis and liver oxidative damage by suppressing inflammatory and oxidative stress mediators" *Phytomedicine*. [2019 \(64\)](#), 152924.

33. R. Chetana, K. P. Bhavana, R. Babylatha, V. Geetha, **G. Suresh Kumar** “Studies on eggless mayonnaise from rice bran and sesame oils. *J Food Sci Technol*, 56(2019)3117–3125
34. Sundaram MS, Neog MK, Rasool M, **Kumar GS**, Hemshekhar M, Kemparaju K, Girish KS. Guggulipid ameliorates adjuvant-induced arthritis and liver oxidative damage by suppressing inflammatory and oxidative stress mediators. *Phytomedicine*. 64(2019) 52924: 2019.4.8
35. Sharanappa T.Talawar. A.S.Mohan Kumar. G.Bhaskaragoud. **G.Suresh Kumar**. Wheat bran oil concentrate induced AMPK activation, insulin and lipid homeostasis alleviates adipokines and cytokine in high fat fed C57BL6 mice. *Journal of Agriculture and Food Research* 2(100080)2020.
36. G. Bhaskaragoud¹ , Pallavi Chatterjee¹ , **G. Suresh Kumar**. Effect of oryzanol concentrate on hypolipidemic properties and antioxidant enzymes of liver in high fat fed and low STZ induced-male Wister rats. *Biomedicine*: 2020; 40(1): 25- 31.
37. Sharanappa T. Talawar, Kiran Gangappa, Sharavana Gurunathan, Mayookha V.P, and **Suresh Kumar Gurusiddaiah**. Sterol Ferulate Rich Wheat Bran Oil Concentrate Prevents Liver Damage in MAFLD Mouse Model by Modulating FAS and PCSK9. *ACS Food Sci. Technol.* 2021, 1, 4, 644–652.
38. Sharanappa T.Talawar, R.Chetana, B.S.Roopa, **G.Suresh Kumar**. Effect of wheat bran oil concentrates on quality and nutrition of WBO dark compound chocolates. *LWT* [142](#)(1110005) 2021,
39. V Geetha & **G Suresh Kumar** Concentrates from tender coconut water and coconut testa beneficially modulates tissue lipid profiles in high-fat fed rats. *Journal of Food Science and Technology* 59(1649–1657) 2022.
40. Mohan Kumar, V. Geetha and **G.Suresh Kumar**. Impact of phenolic concentrate from tender coconut water and coconut testa on high fat cholesterol fed C57BL6 mice *Journal of Food Science and Technology* 59 (1299–1306) 2022.

41. Moumita Das, V Geetha, M Zarei, NV Harohally, **Suresh Kumar G***. Modulation of obesity associated metabolic dysfunction by novel lipophilic fraction obtained from *Agaricus bisporus*. Life Sciences, 305 (20779) 2022,
42. Geetha V, Moumita Das, Mehrdad Zarei , Mayookha VP, Nanishankar V Harohally, **Suresh Kumar G***. Studies on the partial characterization of extracted glycosaminoglycans from fish waste and its potentiality in modulating obesity through *in-vitro* and *in-vivo*. Glycoconjugate Journal. 39(525-542)2022
43. M Das, SK Gurusiddaiah .Ergosterol fraction from *Agaricus bisporus* modulates adipogenesis and skeletal glucose uptake in high fat diet induced obese C57BL/6 mice. Life Sciences 315, (121337) 2023.
44. Geetha V. Suresh Kumar G. Glycosaminoglycans from fish waste alleviate high fat diet induced obesity via modulating plasma biomarkers and fatty acid profile of obese C57BL/6 mice. Biomedicine 43, DOI: <https://doi.org/10.51248/.v43i1.2572>
1. **Suresh Kumar G**, Salimath. “*Studies on wound healing activity and structural characterization of active polysaccharide isolated from *Embllica officinalis**” – communicated

Review article.

1. Prakruthi appaiah, L.Sunil, P.K. Proasanth Kumar, G.Suresh Kumar and A.G.Gopal Kishna. Coconut testa-a valuble by-product of coconut oil industries. Indian coconut journal. December 21 (2021) 11-18.
2. Moumita Das and G. Suresh Kumar. Potential role of mycosterols in hyperlipidemia – A review. Steroids. (16610877) 2021.

Book Chapter

1. Mayookha and G.Suresh Kumar. Coconut: Emerging nutraceutical for a healthy world. In book: The Coconut Palm (*Cocos Nucifera*): Production, Cultivation and Uses Agriculture issues and policies series (pp.97-117) 2021.Publisher: Nova Science Publishers, Inc

2. Mayookha V, Geetha V, Moumita Das and Suresh Kumar G. Neurodegenerative Disease: Prevention and Treatment Through Plant Extracts Therapy. FCDR - CNS and Neurological Disorders, 2022, Vol. 10, 1-59. Bentham Science Publishers.

Abstract Presentations:

1. **G. Suresh Kumar**, P.V. Salimath and Shylaja M. Dharmesh (2001). Antioxidant activity of polysaccharides from *Emblica officinalis*. International conference on Natural Antioxidant and Free Radical in Human health and Radiation Biology (NFHR-2001) BARC, July: 21-24, 2001. Mumbai, India.
2. **G. Suresh Kumar**, Shylaja M. Dharmesh and P.V. Salimath (2002). Structural Elucidation of Pectic Polysaccharide from *Emblica officinalis*. XVII National Carbohydrate Conference, November 21st, CFTRI, Mysore, India.
3. **G. Suresh Kumar**, K. Sambaiah and P.V. Salimath (2003). Effect of spent turmeric on kidney glycoconjugate metabolism in streptozotocin induced diabetic rats. 5th International Food Convention (IFCON), CFTRI, Mysore, India.
4. **G. Suresh Kumar**, B. Vijayalakshmi, K. Sambaiah and P.V. Salimath (2003). Urinary Excretion of glycosaminoglycans in streptozotocin induced diabetic rats and its amelioration by curcumin. 5th International Food Convention (IFCON), CFTRI, Mysore. India.
5. **G. Suresh Kumar**. B. Vijayalakshmi and P.V. Salimath (2004). Effect of bitter gourd and spent turmeric on constituents of glycosaminoglycans of different organs in streptozotocin induced diabetic rats. 16th Indian Convention of Food Scientists & Technologists held on December 9th and 10th.
6. Sang Woo Kim, Sung Hak Lee, **Suresh Kumar. G.** and Jong Won Yun (2007). Hypoglycemic Fungal Polysaccharides alter the Plasma Protein Modulation in *ob/ob* mice. 7th Annual International Proteomics conference (Proteomics and Biomarker Discovery) poster session held on 29th to 30th March at Culture Center, Seoul National University, Seoul, Korea.
7. Md. Atiar Rahman, **Suresh G Kumar** and Jong Won Yun (2007). Inhibitory effect of chitosan oligosaccharide on 3T3-L1 adipocyte differentiation through proteome analysis. KSBB fall meeting and international symposium. October 18th to 19th, at Hotel Inter-Burgo, DAEGU. Korea.

8. SH Lee, A. Rahman, **G Suresh Kumar**, HS Hwang, HA Kim, and JW Yun (2008): Proteomic analysis for 3T3-L1 adipocyte differentiation in response to chitosan oligosaccharides. The IXth Conference on Clinical Pharmacology and Therapeutics. Quebec city, Canada (2008.7.27-8.1).
9. **Suresh kumar G** and Gopala Krishna AG (2011) “Studies on the minor components composition of wheat derived oils- wheat bran oil and wheat germ oil”. National conference “Recent trends in food science and nutrition Research” held on Dec.15th at Jain University Premises, Palace Road, Bangalore.
10. Sharanappa Talawar and **Suresh Kumar** (2012) “Proximate composition of cloned varieties of Wheat Bran” XXII Indian Convention of Food Scientists & Technologists (ICFoST) to be held at CSIR-CFTRI between Dec. 6-7th
11. **G. Suresh Kumar** and P. V. Salimath (2012) “Effect of spent turmeric on kidney type IV collagen and heparan sulfate in streptozotocin-induced diabetic rats” National carbohydrate conference [CARBO-XXVII] organized by CSIR- CFTRI & association of carbohydrate chemist and technologist (India) between Dec 13-15th .
12. Anand Prakash, **Suresh Kumar G**, Vijayalakshmi MR and Revathy Baskaran (2012) “West Indian Cherry: A treasure trove of vitamin C and other phytonutrients untapped in India” XXII Indian Convention of Food Scientists & Technologists (ICFoST) to be held at CSIR-CFTRI between Dec. 6-7th .
13. **Suresh kumar G** and Gopala Krishna. “Effect of heat treatment on wheat germ and bran nutraceuticals in the extracted oils”. 7th international food convention (IFCON 2013) NSUR- Health foods (Nutritional security through sustainable development, research & education for health) (Page #228) on 18-21 Dec 2013 organized by AFSTI (Association of food science and technology), CFTRI, Mysore.
14. Amrutha G Kumar, Bhaskar Goud, **Suresh kumar G**. “Effect of fat soluble compounds on *in vitro* lipase inhibiting activity”. 7th international food convention (IFCON 2013) NSUR- Health foods (Nutritional security through sustainable development, research & education for health) (Page #331) on 18-21 Dec 2013 organized by AFSTI (Association of food science and technology), CFTRI, Mysore.
15. Chetana R, Ravi R, **Suresh kumar G** and Sharanappa T. “Development of a prebiotic, low sugar Indian sweet- Bombay halwa. 7th international food convention (IFCON 2013) NSUR- Health foods (Nutritional security through sustainable development, research & education for health)

(Page #161) on 18-21 Dec 2013 organized by AFSTI (Association of food science and technology), CFTRI, Mysore.

16. Baby Latha R, **Suresh Kumar G** and Nasirullah. “Toxicological studies of prolonged heated and fried rice bran oil (RBO) in Wistar rats”. 7th international food convention (IFCON 2013) NSUR- Health foods (Nutritional security through sustainable development, research & education for health) (Page #161) on 18-21 Dec 2013 organized by AFSTI (Association of food science and technology), CFTRI, Mysore.
17. Geetha, Gopala Krishan AG, **Suresh Kumar G** (2015). Studies on the carbohydrates and phenolics of defatted coconut power(by-product) from coconut industries Souvenir, page No. 84. Poster presented by in the 3rd International Conference “Impacting Food Value Chain and Leveraging Innovation (IFVCLI)” during February 26-28, 2015 at NIFTEM, Kundli, Haryana
18. Mohan Kumar A S, Geetha, Gopalakrishna A G and **Suresh Kumar G** (2015) Hypolipidemic effect of phenolic concentrate from coconut pressed cake(CPC) on high fat fed male wistar rats Poster presented in the 3rd International Conference “Impacting Food Value Chain and Leveraging Innovation (IFVCLI)” during February 26-28, 2015 at NIFTEM, Kundli, Haryana
19. Mohan Kumar A S, Geetha, Gopalakrishna A G and **Suresh Kumar G** (2015). Hypolipidemic effect of tender coconut water and phenolic concentrate from coconut pressed cake in on high fat fed C57BL6 Mice. Souvenir, Page No.59, Section XII: New Biology (Including Biochemistry, Biophysics & Molecular Biology and Biotechnology) 103rd Indian Science Congress, 3-7 January, 2016 University of Mysore, Mysore, Karnataka.
20. N.Sonkar, R. Chetana, **G.S. Kumar** and K.V. Murthy (2016). Process for production of Amla (*Embllica officinalis*) powder with Retention of nutrients. “Bio processing India 2016” “Sustainable Bioprocessing products for food, Nutrition, Health and Environment” Dec, 15-17, 2016. Center of Innovative and applied Bioprocessing, Knowledge city, Sector 81, Mohali (Punjab), India.
21. Raja Rajan RG, G Bhaskargoud, AG Gopala Krishna and G Suresh Kumar (2016) Hypolipidemic activity of Phytosterols derived from Indian rice bran oil deodorizer distillate in free and esterified from with alpha Linolenic acid. 85th Annual Meeting of Society of Biological Chemists(Inida), CSIR-CFTRI, Mysuru, India 21st -24th November 2016.
22. **Sharanappa Talawar and Suresh Kumar G (2017)**. “Wheat bran oil concentrate bioactives for their antioxidant and hypolipidemic properties” Poster presentation in a National Seminar on

Science and Technology: Reaching the Unreached NCST-RU 2017 between 8th and 9th Sep 2017 at Mangalagangothri, Mangalore University.

23. Vaibhavi pimpley, Nivas Desai, Suresh Kumar and Pushapa.S Muruthy. “*In vitro* biofunctionality studies of native and micro-structured dietary polyphenols from green coffee” Nutri-concept: Innovative food concepts and technologies for Global Nutrition and business, May 15-16, 2018 at CSIR-CFTRI, Mysuru.
24. Siddhi Patil, Nivas Desoi, Suresh Kumar and pushpa S Muruthy. “In-vitro anti-diabetic and bioactivity studies of coffee pulp polyphenols for functional food formulation”. Nutri-concept: Innovative food concepts and technologies for Global Nutrition and business, May 15-16, 2018 at CSIR-CFTRI, Mysuru.
25. Geetha. V & Suresh Kumar. G* (2018) “Isolation/Extraction of Glycosaminoglycans from Fishwaste and Estimation of their Biological Activities” Souvenir Page no. 64. **Nutri-concept: Innovative food concepts and technologies for Global Nutrition and business, at CSIR-CFTRI, Mysuru**
26. Geetha V, Mohan Kumar. A.S & Suresh Kumar. G* (2018) “Modulatory Effect of Tender Coconut Water and Testa Concentrates on Fatty Acid Composition of High Fat Fed Rats” Souvenir Page no 16. National conference for virgin coconut oil (VCO) manufacturers” jointly organized by CSIR- Central Food Technological Research Institute, Mysuru and Coconut Development Board, Kochi, at CSIR-CFTRI, Mysuru.
27. Moumita Das, Hema Kumar. C & Suresh Kumar. G* (2018) “Biological activity of the ergosterol extract from white button mushroom (*Agaricus bisporus*)”. Nutri-concept: Innovative food concepts and technologies for Global Nutrition and business, at CSIR-CFTRI, Mysuru.
28. Mayookha. V.P & Suresh Kumar. G (2018) “Medium chain triglycerides extraction from VCO and their biological effect” Souvenir Page no 18. National conference for virgin coconut oil (VCO) manufacturers” jointly organized by CSIR- Central Food Technological Research Institute, Mysuru and Coconut Development Board, Kochi, Conducted at CSIR-CFTRI, Mysuru.
29. Geetha and Suresh Kumar G(2019): “**Studies on the effect of enzyme digestion on the isolated bioactive glycosaminoglycans from processed fish waste**” Organised by CSIR-CFTRI, on “Advances in bioprocessing of agri-food resources” in December14-16.
30. Moumitha Das and G.Suresh Kumar (2019): “**Effect of sterol extract from mushroom on obesity related complications**” Organised by CSIR-CFTRI, on “Advances in bioprocessing of agri-food resources” in December14-16.

31. **Geetha V**, Chetana R and Suresh Kumar G*. “Studies on Jujubes- A Soft Chewy Candy with added Glycosaminoglycans (GAGs)”. Poster presented at National Conference- 28th Indian Convention of Food Scientists & Technologists (ICFOST). Emerging and Adoptable Technologies for Sustainable Agro-Food Industries and Economy (EAT-SAFE). Held from 20th to 22nd January, 2022 through virtual mode. Organized by Association of Food Scientists & Technologists (India) with AFST(I)- Mumbai Chapter & Aurangabad Chapter Co- organisers: CSIR-Central Food Technological Research Institute, Mysuru, DRDO-Defence Food Research Laboratory, Mysuru, Institute of Chemical Technology, Mumbai
32. **Geetha V** and Suresh Kumar G*. “Studies on isolated glycosaminoglycans as anti-obesity potent *in-vitro* and *in-vivo*”. Poster presented at International Conference on Advances in Chemistry and Biology of Carbohydrates [CARBO-XXXV]. Held from December 04-05, 2021 in virtual mode. Organized by the Forest Research Institute, Dehradun, India in collaboration with the Association of Carbohydrate Chemists and Technologists, India.

Proceeding

1. Bhaskaragoud, Suresh Kumar G, “Effect of oryzanol concentrate on diabetic nephropathy induced animal model” presented in symposium 7th Indo Global diabetes and Medicare Expo” organized by OMICS international conference on November 23-23, 2016 Bangalore, India Bangalore. J Diabetes Metab 2015, 6:11. <http://dx.doi.org/10.4172/2155-6156.C1.034>

Best paper award during 2019

G. Bhaskaragoud, V. Geetha, T. Sharanappa, A. S. Mohan Kumar, C. Hema Kumar, and G. **Suresh Kumar**. Hypolipidemic and Antioxidant Properties of Oryzanol Concentrate in Reducing Diabetic Nephropathy via SREBP1 Downregulation Rather than Beta Oxidation. Molecular Nutrition and. Food Research. 2018 (62) 1700511. doi: 10.1002/mnfr.201700511. **(best Paper award)**

(Suresh Kumar. G.)