Dr. Nandini CD



Principal Scientist Department of Molecular Nutrition CSIR-CFTRI Mysuru-570 020

Professional Career

Post-doctoral Fellow	Dept. of Biochemistry,
	Kobe Pharmaceutical
	University, Kobe,
	Japan
Research Associate	Dept. of Pathology
	and Laboratory
	Medicine,
	Univ. of Wisconsin,
	Madison
Scientist Fellow	CSIR-CFTRI, Mysore
Principal Scientist	CSIR-CFTRI

Award/Prize/Honours

- UGC-CSIR-Research Fellowship award 1993
- Kobe Pharmaceutical University Fellowship for Post-Doctoral work 2002
- Research Associateship by University of Wisconsin, Madison 2005
- Platinum jubilee lecture in Indian Science Congress Association at their 103rd meeting held at University of Mysore, Mysuru from Jan 3-7 2016
- CFTRI-Best Scientist Award 2017-18

Professional Membership

Life member- Society of Biological Chemists Life member: ACCTI Life Member: Indian Science Congress Life Member: AFSTI

Research:



Projects:

As Principal Investigator:

Externally funded projects from DST-SERB, DST-WOS (A) (**Completed**). Industry sponsored project (**Completed**) Projects from MoFPI and DBT, New Delhi (**On going**) In-house projects funded by CSIR (**Ongoing**) Mission-mode project from CSIR (**Ongoing**)

Publications: (https://scholar.google.co.in/citations?user=5A58Ew4AAAAJ&hl=en) Book Chapter: 01 Reviews: 02 Research papers: 38

Key Publications:

Shrikanth CB and Nandini CD Zerumbone Ameliorates High Glucose-Induced Reduction in AMPActivated Protein Kinase Phosphorylation in Tubular Kidney Cells *Journal of Agricultural and Food Chemistry* 65 (2017) 9208-9216

M.S. Sandeep and C.D. Nandini Influence of quercetin, naringenin and berberine on glucose transporters and insulin signalling molecules in brain of streptozotocin-induced diabetic rats. *Biomedicine & Pharmacotherapy* 94 (2017) 605–611

Sandeep MS and Nandini CD Brain heparan sulphate proteoglycans are altered in developing foetus when exposed to in-utero hyperglycaemia. *Metabolic brain Disease* 32 (2017) 1185–1194

Jamuna JB and **Nandini CD** Feeding of banana (Musa sp. cv. elakki bale) flower and pseudostem to diabetic rats results in modulation of renal GLUTs, TGF β , PKC and

extracellular matrix components of kidney- *Nutrition, Metabolism and cardiovascular disease* 24 (2014) 623 - 631

Srikanth CB, Salimath PV and **Nandini CD** Erythrocytes express chondroitin sulphate/dermatan sulphate, which undergoes quantitative changes during diabetes and mediate erythrocyte adhesion to extracellular matrix components *Biochimie* 94 (2012) 1347-1355

Darukeshwara Joladarashi, Paramahans V Salimath and Nandini CD Diabetes results in structural alteration of chondroitin sulfate /dermatan sulfate in rat kidney: Effects on the binding to extracellular matrix components *Glycobiology* 21 (2011) 960-972

Nandini CD and Kazuyuki Sugahara

Article title:Role of the sulfation pattern of chondroitin sulfate in its biological activation and in the binding of growth factors pp253-280

Book Series: Advances in Pharmacology N. Volpi Editor, Vol.53, 2006, Elsevier publication Book title: Chondroitin Sulfate: Structure, Role and Pharmacology

C.D.Nandini, N. Itoh and K. Sugahara

Novel 70-kDa chondroitin sulfate/dermatan sulfate hybrid chains with a unique heterogeneous sulfation pattern from shark skin, which exhibit neuritogenic activity and binding activities for growth factors and neurotrophic factors. *J Biol Chem* 280 (2005) 4058-4069.

C.D.Nandini, T. Mikami, M. Ohta, N. Itoh, N. Seno and K. Sugahara Structural and functional characterization of oversulfated chondroitin sulfate/dermatan sulfate hybrid chains from the notochord of hagfish: neuroregulatory activities and specific Interactions with growth factors and neurotrophic factors *J Biol Chem* 279 (2004) 50799-50809

Li F, **Nandini CD**, Hattori T, Bao X, Murayama D, Nakamura T, Fukushima N and Sugahara K Structure of Pleiotrophin- and hepatocyte growth factor-binding sulfated hexasaccharide determined by biochemical and computational approaches *J Biol Chem.*, 285 (2010) 27673-27685

Students in Ph.D program: 03 (02 awarded, 01 to submit) 04 (Under Progress)