



Dr. Vasanthi Nachiappan
Professor

Contact

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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

S.No	Degree	University/Institution	Year of Passing	Class / Grade	Subject of specialization
1.	PhD	University of Madras Chennai, India.	1988	NA	Biochemistry
2.	MPhil	University of Madras Chennai, India.	1984	First Class	Biochemistry
3.	MSc	University of Madras Chennai, India.	1982	First Class	Biochemistry
4.	B.Sc	Madurai Kamaraj University	1979	First Class	Chemistry

Teaching Experience: 14 Years

Research Experience: 27 Years

Additional Responsibilities

1. Head of the department (April 2005 – December 2013)

Areas of Research

Our lab focuses on the role of transcription factors and their involvement in lipids during adverse conditions. Environmental pollutants and heavy metals have an impact on yeast phospholipids. Understanding the lipid related metabolic pathways during such adverse conditions may provide knowledge for developing novel therapeutics for these toxicity related disorders. We use combination of genetics and molecular approaches to implicate the role of genes and proteins that regulate lipid metabolism under pathological conditions using *Saccharomyces cerevisiae* and human cell line as model systems

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	14	06
	M.Phil.	30	00
Project	PG	Xx	Xx
	UG / Others	Xx	Xx

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
41	15	04	11	03

Cumulative Impact Factor (as per JCR) : 102

h-index : **14**
i10 index : **17**
Total Citations : **586**

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	NMPB	01-03-2013	31-03-2017	Characterization of active principle from <i>Cassia auriculata</i> as a potential drug for hyperlipidemia and cardiovascular disease	23.52
2	CSIR	01-04-2012	31-07-2015	Endoplasmic reticulum (ER) stress induced autophagy in <i>Saccharomyces cerevisiae</i> and the implication in Phospholipid.	22.92
3	UGC	01-05-2008	31-05-2011	Remodeling of fatty acid in phosphatidyl choline rat liver as a model system	10.898

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	SERB	21-03-2017	31-03-2020	High throughput screening & molecular analysis of <i>GCRI</i> transcription factor and its impact on the binding motif of <i>OPI3</i> promoter in <i>Saccharomyces cerevisiae</i>	47.92,746

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1					
2					

Others

Note: Budget must be rounded to two decimal places

Patents

NA

Distinctive Achievements / Awards

1. INDIAN ASSOCIATION OF BIOMEDICAL SCIENTISTS (IABMS) award for Dr. C. R. KRISHNAMURTHY MEMORIAL AWARD Nov 4th 2016

Events organized in leading roles

1.	Lecture Workshop On Current Trends In Biology And Biotechnology	19 th – 20 th Sep - 2008	IAS – Bangalore, Indian National Science Academy – New Delhi. The National academy of Science - Allahabad.
2.	Lecture Workshop On Hands on training in Cell and Molecular Biology techniques	14 th -27 th Mar- 2018	Department of Biochemistry, Bharathidasan University Trichy-24.

Events Participated (optional)

Conferences / Seminars / Workshops: xx

S.No.	Name of authors, title of the paper, year , volume and page no. Of publication. (preferably in Vancouver style)	Name of the Conference/Seminar/ Symposia – National / International / Regional
1.	Abishek Raj, Vasanthi Nachiappan . Role of sirtuin for lipid homeostasis in <i>saccharomyces cerevisiae</i> upon exposure of environment toxicant	International Conference on Reproductive Health with emphasis on Occupational, Environmental and lifestyle factor Feb- 2016
2.	Abishek Raj, Kandasamy Selvaraju, Vasanthi Nachiappan . Alteration of Lipid homeostasis in <i>S. cerevisiae</i> upon Hydroquinone Exposure. 2016.	International Conference on Environment and Health in Changing Climate Sep – 2016
3.	Rajendran Vijayakumar, Ganesan Nivethitha, Vasanthi Nachiappan . Effect of Cassia auriculata flower extract in Triton WR-1339 induced hypercholesterolemic rates. 2016	”

4.	Ramachandran Gowsalya, Vasanthi Nachiappan . Family of Serine Hydrolyse plays a crucial role with apoptosis in <i>S.cerevisiae</i> . 2016	„
5.	Chidambaram Ravi, Vasanthi Nachiappan . Inositol Auxtroph allivates the growth & alters the inositol dependent expression of GCR1 deletion in <i>S.cerevisiae</i> . 2016	„
6.	Abishek Raj and Vasanthi Nachiappan . Role of Sirtuin proteins for lipid homeostasis in <i>S.cerevisiae</i> upon exposure of environmental toxicant. 2016	International conference on Reproductive Health with emphasis on Occupational, Environmental and Lifestyle Factors. Feb - 2016
7.	Chinnarasu Sivaprakasam, Murugesan Venkatachalam and Vasanthi Nachiappan . Cadmium activates Phospholipase A ₂ Dependent Pro-Inflammatory signaling pathway in Rat testis. 2014	International Conference on Physiology and Medicine. Oct- 2014.
8.	Chidambaram Ravi, Selvaraj Rajkumar and Vasanthi Nachiappan . Impaired Calcium transporter in ER leads to aberrant Lipid accumulation in <i>S.cerevisiae</i> .2014	„

Overseas Exposure / Visits

Membership in

Professional Bodies

1. Life Member - Society of Biological Chemists (India)
2. Life Member - Indian Association of Biomedical Scientists (IABMS)

Editorial Board

1. NA

Advisory Board

Academic Bodies

Others

Resource persons in various capacities

Others

1. Articles published in Newspapers / Magazines : NA
2. Products developed : NA
3. No. of PhD Thesis evaluated : 14
4. No. of PhD Public Viva Voce Examination conducted : 12
5. Sequences submitted in GenBank

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications

1. Authors, (Year), "Title of the Paper", Journal / Conference Name, Publisher, Country, Volume/ Issue, page numbers. (Impact Factor: xx).

S.No	Authors	Title of the Paper	Conference Name, Publisher, Country	Volume	page numbers	Year	Impact Factor
1.	Rajendran V, Krishnegowda A, Nachiappan V.	Antihyperlipidemic activity of Cassia auriculata flower extract in oleic acid induced hyperlipidemia in <i>Saccharomyces cerevisiae</i> .	J Food Sci Technol. (Elesvier, USA)	54(9):	2965-2972	2017	1.797
2.	Vijayakumar R, Nachiappan V.	Cassia auriculata flower extract attenuates hyperlipidemia in male Wistar rats by	Biomed Pharmacother. (Elesvier,	95	394-401.	2017	3.457

		regulating the hepatic cholesterol metabolism.	USA)				
3.	Rajakumar S, Nachiappan V.	Lipid droplets alleviate cadmium induced cytotoxicity in <i>Saccharomyces cerevisiae</i> .	Toxicology Research (Royal Society of Chemistry, USA)	4;6(1)	30-41	2016	2.161
4.	Muthukumar Kannan, Chinnarasu Sivaprakasam, William A Prinz, Vasanthi Nachiappan,	Endoplasmic reticulum stress affects the transport of phosphatidylethanolamine from mitochondria to the endoplasmic reticulum in <i>S.cerevisiae</i>	Biochim Biophys Acta. (Elesvier, USA)	1861(1 2 Pt A)	1959- 1967	2016	4.96
5.	Chinnarasu Sivaprakasam, Rajendran Vijayakumar, Mathivanan Arul and Vasanthi Nachiappan.	Alteration of mitochondrial phospholipid due to the PLA2 activation in rat brain under cadmium toxicity	Toxicology Research (Royal Society of Chemistry, USA)	3;5(6)	1680- 1687	2016	2.161
6.	James AW Gowsalya R Nachiappan V	Dolichyl pyrophosphate phosphatase-mediated N-glycosylation defect dysregulates lipid homeostasis in <i>Saccharomyces cerevisiae</i> .	Biochim Biophys Acta. (Elesvier, USA)	1861(1 1)	1705- 1718	2016	4.96
7.	Rajakumar S, Bhanupriya N, Ravi C, Nachiappan V.	Endoplasmic reticulum stress and calcium imbalance are involved in cadmium-induced lipid aberrancy in <i>Saccharomyces</i>	Cell Stress Chaperones (Springer, South and Latin America)	Epub ahead of print	Epub ahead of print	2016	2.583

		cerevisiae.					
8.	Raj A, Nachiappan V	Exposure to benzenemetabolites causes oxidativedamage in Saccharomyces	Antonie Van Leeuwenhoek (Springer, South and Latin America)	109(6)	841-54	2016	1.944
9.	Rajakumar S, Ravi C, Nachiappan V.	Defect of zinc transporter ZRT1 ameliorates cadmium induced lipid accumulation in Saccharomyces cerevisiae. Metallomics.	Metallomics (Royal Society of Chemistry, USA).	1;8(4)	453-60	2016	3.54
10.	Selvaraju K, Gowsalya R, Vijayakumar R, Nachiappan V.	MGL2/YMR210w encodes amonoacylglycerol lipase in Saccharomyces cerevisiae.	FEBS Letter (Wiley, Germany)	590(8)	1174-86.	2016	2.9