

Curriculum Vitae

G. Bhanuprakash Reddy

Scientist-G & Head, Biochemistry Division

ICMR-National Institute of Nutrition, Hyderabad-500 007

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ORCID: <https://orcid.org/my-orcid?orcid=0000-0003-4787-3944>

Google Scholar: <https://scholar.google.co.in/citations?hl=en&user=u8hxilcAAAAJ>

Education

Ph.D. (Biochemistry): Osmania University, 1996

M.Sc. (Biochemistry): Osmania University, 1990

Postdoctoral Training

- 1998-2000: Research Associate, Case Western Reserve University, Cleveland, USA.
- 1996-98: DBT-Postdoctoral Fellow, Indian Institute of Science, Bangalore, India

Positions Held

- 2019-Present: Scientist-G & Head, Biochemistry, National Institute of Nutrition, Hyderabad
- 2014-19: Scientist-F & Head, Biochemistry, National Institute of Nutrition, Hyderabad
- 2009-2014: Scientist-E & Head, Biochemistry, National Institute of Nutrition, Hyderabad
- 2005-2009: Scientist-D & Group Leader, National Institute of Nutrition, Hyderabad
- 2000-2005: Senior Research Officer, National Institute of Nutrition, Hyderabad

Visiting Appointments

- Aug-Sep 2017: Visiting Fellow, Cincinnati Children's Hospital Medical Centre, Cincinnati, USA
- Oct-Dec 2014: Visiting Scientist, Cincinnati Children's Hospital Medical Center, USA
- August-October 2007: Visiting Scientist, University of Michigan, USA
- Sept 2005-Feb 2006: Visiting Scientist, University of Michigan
- April-July 2003: Visiting Scientist, University of Michigan, USA

Honors/Awards

- Fellow, National Academy of Agricultural Sciences-2025
- Fellow, International Union of Nutritional Sciences-2022
- Fellow, National Academy of Medical Sciences - 2020
- Fellow, Royal Society of Chemistry (London, UK) - 2019
- Fellow, Telangana Academy of Sciences, India - 2015
- Fellow, AP Akademi of Sciences, India - 2012
- Fellow, National Academy of Sciences, India - 2006
- Dr. SG Srikantia Memorial Oration Award by Nutrition Society of India, 2024
- Vepachedu Gopalkishan Rao Memorial Endowment Award - 2023
- Bireswar Chakraborty Oration by ARVO-India Chapter, 2019
- ICMR International Fellowship (for Senior Scientists)- 2017
- Gates Foundation Global Health Travel Award - 2015
- Eminent Research Supervisor Award by Dr. KV Rao Scientific Society – 2015
- Department of Health Research (DHR) Short-term Fellow – 2014
- ICMR-Basanti Devi Amir Chand Prize – 2010
- Scopus India Young Scientist Award (Medicine) – 2008
- Research to Prevent Blindness (USA)-International Research Scholars Award - 2007
- DBT-Associateship for Young Scientists in Niche Areas of Biotechnology-2006-07

- Prof. B. K. Bachhawat International Travel Grant for Young Scientist-2007
- ICMR Award for Excellent Research Output - 2006
- ICMR International Fellow – 2005
- ICMR Dr. V. N. Patwardhan Prize – 2002
- Young Scientist Award, Nutrition Society of India – 1994
- CSIR-UGC Junior and Senior Research Fellowship- 1990-95
- National Merit Scholarship- 1982-90

Membership in professional societies

- **Vice-President, Nutrition Society of India (2024-26)**
- Vice-President: Telangana Academy of Sciences (2023-25)
- Member, Expert Committee, Telangana State Council of Science and Technology, Hyderabad (2022-)
- Member, Governing Council, DBT-National Agri-Food Biotechnology Institute & Center of Innovative and Applied Bioprocessing, Mohali (2021-24)
- Member, Board of Governors, NIPER, Hyderabad (2019-22)
- Executive Council Member, Royal Society of Chemistry-Local Section Deccan (2020-22)
- Executive Council Member, Telangana Academy of Sciences (2018-22)
- Regional Coordinator, Telangana Academy of Sciences (2015-23)
- Executive Committee Member, Nutrition Society of India (2008-12)
- Life Member, Society of Biological Chemists, India
- Life Member, Association of Food Scientist & Technologists of India
- Member, American Society of Nutrition
- Member, Association for Research in Vision and Ophthalmology (ARVO)-India Chapter

Membership in professional committees

- **Chairman, INSA-National Committee for International Union of Nutritional Sciences (IUNS)-2024-26**
- Chairperson, Institutional Ethics Committee, Apollo Institute of Medical Sciences, Hyderabad (2021-24).
- Member, Experts Committee, Asian Healthcare Foundation, Hyderabad (2005-)
- Member, Local Research Advisory Committee, ICMR-Model Research Development Unit, NIMS, Hyderabad
- Member, CSIR-Experts Committee on Agriculture Nutrition Biotechnology Theme Proposals (2024)
- Co-Chair, ICMR- Project Selection Committee –PSC36 (2024)
- Co-Chair, ICMR- Project Selection Committee –PSC24_04_IG05 (2024)
- Chairperson, ICMR-Project Selection Committee-1 on RCN (2023)
- Chairperson, ICMR- Project Selection Committee-V on Basic Descriptive Studies (2023)
- Co-Chair, ICMR- Project Selection Committee -23 on RCN (2023)
- Co-Chair, ICMR- Project Selection Committee-3 on Non-communicable diseases (2023)
- Member, FSSAI-Scientific Panel on Nutrition and Fortification (2023-25)
- Member, FSSAI-Scientific Panel on Functional Food and Nutraceuticals (2017-19 & 2020-22)
- Member, FSSAI-Working Group to review the safety and efficacy of use of vitamins and minerals from natural and/or synthetic sources under Food Safety and Standards (Fortification) Regulations (2021-22)
- Member, WCD-Ministry of Health Committee for Devising the Revised Strategy for Vitamin-A Supplementation in under-five children (2020-21).
- Member, Scientific Advisory Committee, AIIMS-Bibinagar, Telangana (2021-)
- Member, Research Council, CSIR-Central Food Technological Research Institute, Mysuru (2021-24)
- Member, Scientific Advisory Committee, National Agri-Food Biotechnology Institute & Center of Innovative & Applied Bioprocessing, Mohali (2021-24)
- Member, SERB-Task Force Committee on Covid-19 proposals (2020)
- Member, Stem Cell Research Committee, Yenepoya (Deemed to be University), Mangalore (2018-23)
- Member Secretary, Publication Committee, Telangana Academy of Sciences (2018-22)
- Member, Sectional Committee (Health, Medical & Pharma), Telangana Academy of Sciences (2017-23)
- Member, Research Advisory Committee, IIFPT/ NIFTEM, Thanjavur (2017-22)
- Co-option Member of Expert Committee of Ministry of Food Processing Industries (2016-)
- Subject Expert, Screening Committee for recruitment of faculty, Department of Biotechnology, University of

Hyderabad (2016)

- External Member, Dept Council, Department of Biochemistry, University of Hyderabad (2015-17)
- Expert Member, Academic Council, Osmania University College for Women, Hyderabad (2014-17)
- Member, Project Review Committee, HRD Program of Department of Health Research (2013).
- Member, Research Advisory Committee, KIMS Foundation & Research Center, Hyderabad (2013-18)
- Subject Expert, Assessment Committee for promotion of faculty, Jawaharlal Nehru Technological University, Hyderabad (2011 & 2022)
- Member, Advisory Group, South Asia Centre for Disability Inclusive Development and Research, Indian Institute of Public Health, Hyderabad (2011-16)
- Member, Institutional Review Board, Indian Institute of Public Health, Hyderabad (2011-15 & 2016-20)
- Member, Institutional Animal Ethics Committee, National Institute of Nutrition (2008-14)
- Member, Board of Studies in Biochemistry, Osmania University (2009-13 & 2017-2020)
- Member, Board of Studies in Nutrition, Osmania University (2011-15 & 2018-21)

Editorial & peer reviewing services

- **Associate Editor:** Indian Journal of Medical Research (2024-present)
- **Subject Editor:** *Proceedings of National Academy of Sciences, India* (2017-present)
- **Associate Editor:** *Journal of Food Science & Technology* (2016-19)
- **Guest Editor:** *Reviews Endocrinol Metabol (Metabolic Syndrome and Nutrition, 2013)*
- **Adhoc Reviewer:** Reviewed manuscripts for *Am J Clin Nutr, Arch Biochem Biophys, Arch Med Res, BBA-General Subjects, BBA-Mol Basis Dis, BBA-Proteins, Biochem J, Biochemistry, Br J Nutr, Clin Chem Lab Med, Curr Eye Res, Curr Mol Med, Curr Sci, Diabetes, Diabetologia, Eur J Nutr, Exp Diab Res, Exp Eye Res, Food Chem, Food Func, FEBS Letts, Indian J Biochem Biophys, Indian J Exp Biol, Indian J Med Res, Indian J Ophthal, Internat J Biol Macromolecules, Invest Ophthal Vis Sci, IUBMB Life, J Diab Complications, J Food Sci Technol, Metabolism, Molecular Vision, Nutrition, PLoS One, Proc Natl Acad Sci (India), Scientific Reports.*
- **Grant Reviewer:** Reviewed research grants for *Medical Research Council (London), British Council of Prevention of Blindness, The Cunningham Trust, Indo-French Centre for the Promotion of Advanced Research (CEFIPRA), CSIR, DBT, DST-SERB, ICMR, LSRB-DRDO.*

Research grants*

- *Principal Investigator: 18; Co-PI & Co-Investigator: 15*

Research Supervisor/ Mentor/ Training/ Teaching*

- *Current Graduate students in Biochemistry/ Nutrition: 6*
- *Past Research (PhD) Students: 27; MSc by thesis: 18*
- *Current Postdoctoral Fellows/ Young Investigators: 4*
- *Past Young Investigators/ Woman Scientists/ Postdoctoral Fellows: 11*
- *Project trainees/ interns: 90*

Research Publications*

Number	Total Impact Factor	Citations	h-index	i10-index
261	1332	10989	58	171

Source: Google Scholar (last accessed on 06-06-2025); <https://orcid.org/0000-0003-4787-3944>

Invited Talks: 108*; Papers presented at scientific meetings: 99*

***Details are given in Annexure-I**

ANNEXURE-I

RESEARCH GRANTS

Principal Investigator:

- Diet and biomarkers study of India (DABS-I): Coordinator of Laboratory based analysis. Funding: ICMR; Period: 2022-25
- Impact of vitamin B6 deficiency and protein glycation on aging and age-related disorders: Effect of vitamin B6 supplementation. *Funding:* ICMR (# 2021/8648); Period: 2022-25
- Influence of micronutrient status on biomarkers of aging in frailty. *Funding:* DBT (BT/PR36689/PFN/20/1524/2020); Period: 2020-24
- Cardio-metabolic effects of meat intake in Indians: a pilot study to build nutritional metabolomics capacity and establish short-term and longer-term biomarkers of meat intake and metabolism in Indian context. UKRI (MRC-GCRF) Collaborative Program. Period: 2021-23
- Evaluation of poly-spice (functional food) formulation for diabetes and its complications. *Funding:* Ministry of Food Processing Industry (Q-29/3/2017-R&D[316663]); Period: 2019-22.
- Aldose reductase (AR) mediated aberrant molecular changes in coincident diabetes and cancer: Effect of dietary AR inhibitors. Funding: SERB (# EMR/2016/001984); Period: 2018-21.
- Role of advanced glycation end products (AGE) in diabetic nephropathy: Effect of dietary antiglycating agents. Funding: Department of Health Research (V.25011/287-HRD/2016-HR); Period: 2016-19
- Micronutrient status and its influence on molecular mechanisms in diabetic nephropathy: A nutrigeomics study. Funding: SERB (SB/SO/HS-192/2013); Period: 2015-18.
- Prevalence of deficiency of vitamin-B12 & folate and hyperhomocysteinemia among urban geriatric population. Funding: DBT (BT/PR10658/PFN/20/806/ 2013); Period: 2014-17.
- Indo-EU 7th FP project on FUNCFOOD; Impact of agents with potential use in functional foods on biomarkers for induction of age-related diseases; *Funding:* DBT (BT/IN/EU/17/SN/2009); 2010-15.
- Indo-US Collaborative Program in Vision Research; Title: Characterization of retinal degeneration in an obese rat model. *Funding:* DBT (BT/PR11097/Med/12/411/2008); Period: 2010-14
- Characterization of aldose reductase inhibitors and antiglycating agents from dietary sources. *Funding:* Life Sciences Research Board/DRDO (DLS/81/48222/LSRB-217/FSB/2010); Period: 2010-13
- Diabetic retinopathy: Role of micronutrients. *Funding Agency:* Department of Science & Technology (SR/SO/HS-52/2008); Period: 2009-12
- Transcriptome and proteome analysis of ALR2 and its involvement in diabetic retinopathy- (Multicentric Study). *Funding:* DBT (BT/PR9299/BRB/10/549/2007); Period: 2009-12
- Biochemical molecular basis of diabetes-induced cataract and retinopathy: Evaluation of a suitable animal model and role of dietary agents. *Funding:* DST (SR/SO/HS-01/2007); Period: 2007-10
- Biochemical, molecular, and nutritional aspects of cataract and retinal degeneration. *Funding:* ICMR-Excellent Research Output Grant. Period: 2007-10 (No. 2/2/2003-Admn.II; Dt: 27-02-2007)
- Characterization of cataractogenesis in WNIN-Obese mutant rats. *Funding:* ICMR; Period: 2005-09
- Characterization of a novel fatty acid elongase, Elovl4, of the eye lens. *Funding:* DBT (BT/PR5058/BRB/10/367/2004); Period: 2005-08
- Importance of α -crystallin heteropolymer in the eye lens: chaperone-like activity and associated physicochemical properties. *Funding:* DST-Fast Track Project (SR/FT/L-05/2004); Period: 2004-07
- Molecular chaperone function of α -crystallin under hyperglycemic conditions: Modulation by aldose reductase inhibitors and antiglycating agents. *Funding Agency:* DST; Period: 2004-2007
- Screening and testing of aldose reductase inhibitors and antiglycating agents from dietary sources. *Funding Agency:* LSRB/DRDO; *Funding Period:* 2003-06

Sponsored by Industry

- Therapeutic effect of capsaicin (Capsimax) and Salacia against obesity associated complications in WNIN-Ob rats. Funding: OmniActive Health Technologies Pvt. Ltd; Period: 2016-17
- Therapeutic effect of soluble lutein and soluble curcumin against diabetic cataract and retinopathy in rats: A nutrigenomics study. Funding: OmniActive Health Technologies Pvt. Ltd; Period: 2012-14

Co-PI & Co-Investigator

- Impact evaluation of the iron fortified rice supplied through public distribution system and other welfare schemes in reducing the burden iron deficiency anemia in India. Funding: ICMR; Period: 2024-26 (PI: Dr. NS Reddy, National Institute of Nutrition)
- In vitro and in vivo evaluation of anti-colon cancer potential of a probiotic strain of *Bacillus licheniformis* PUFSTP35 of food origin and characterization of active principle. Funding: SERB (CRG/2023/002857); Period: 2024-07; (PI: Dr. Prathap Shetty, Pondicherry University)
- Design and development of a mucoadhesive micelle-based dual drug delivery system for the non-invasive treatment of diabetic cataract and retinopathy. Funding: ICMR; Period: 2024-27 (PI: Dr. DA Srinivasarao, NIPER-Hyderabad)
- Unraveling the essence of riboflavin in retinal function and development. Funding: ICMR; Period: 2022-25 (PI: Dr S Sreenivasa Reddy, National Institute of Nutrition)
- Efficacy of vitamin D2 vs vitamin D3 on the classical and nonclassical functions in rat models. Funding: DBT; Period: 2021-24 (PI: Dr A. Ismail: National Institute of Nutrition)
- Evaluation of prebiotic and anti-obesity properties of galactan exopolysaccharides; Funding: ICMR; Period: 2021-24. (PI: Dr. Prathap Shetty, Pondicherry University)
- Dissecting vitamin K specific Genes: A systems genomics study. *SERB IRR/2018/00025*); Period: 2020-23. (PI: Dr. P Suravajhala, Birla Institute of Scientific Research)
- Understanding the role of vitamin B12 in diabetic neurodegeneration; implications of protein quality control processes. Funding: *DBT (BT/PR27607/PFN/20/1337/2018)*; *Period: 2019-22* (PI: Dr. VS Reddy, National Institute of Nutrition)
- Development of a noninvasive drug delivery system for the treatment of posterior eye disease. Funding: *DBT (BT/PR26925/NNT/28/1498/2017)*; *Period: 2019-22* (PI: Prof. DS Katti, IIT-Kanpur)
- Development of a nanoparticulate drug (bevacizumab) delivery system for the non-invasive treatment of diabetic retinopathy. Funding: DST-TMD (Nanomission)(*SR/NM/NB1099/2017*); Period: 2018-21 (PI: Prof. DS Katti, IIT-Kanpur)
- Gut microbiome studies in diabetic retinopathy patients and rats. *SERB (# EMR/2017/000815)*; Period: 2018-21. (PI: Dr. S. Shivaji, LVPEI)
- Role of aldose reductase (AR) in diabetes and cancer: A clinical study. Funding: ICMR; Period: 2017-20 (PI: Dr. P. Uday Kumar, National Institute of Nutrition)
- Assessment of micronutrients status and non-communicable diseases of the urban geriatric population: A population-based cross-sectional study. Funding: DST; Period: 2013-15
- Proteasome inhibitory potential of cinnamon extract in prostate cancer: In vitro and in vivo studies. *Funding: DBT (BT/PR6197/FNS/20/698/2012)*; *Duration: 2013-16*
- Pre-diabetes induced retinopathy: Biochemical and molecular mechanisms and intervention by dietary agents. *Department of Biotechnology*; *Period: 2012-15*
- Isolation and characterization of food derived iron binding peptides and their effect on iron bioavailability: A proteomic approach. *Funding: DBT*; *Period: 2012-15*
- Biological monitoring of advanced glycation endproducts (AGE) of protein in the human samples: the role of antiglycating dietary agents in case of diabetic complications. *Funding: UGC*; *Period: 2012-15*
- Design and development of a non-invasive nanoparticulate drug delivery system for the treatment of retinal diseases. Funding: ICMR; Period: 2011-14
- Childhood obesity in India: A multicenter study of its measurements and determinants. *Funding: ICMR-Taskforce study*; *Period: 2011-13*.

RESEARCH SUPERVISOR/ MENTOR/ TRAINING/ TEACHING

Past Research (PhD) Students:

- Udaykanth Suryavanshi, ICMR-Fellow, submitted thesis to Osmania University in June 2025
- Richa Panda, ICMR-Fellow, submitted thesis to Osmania University in May 2024
- HE Harshavardhana, UGC-Fellow, PhD awarded by Osmania University in December 2024 (currently Postdoctoral Fellow at the College of Medicine, University of Cincinnati, USA)
- Paromita Banerjee, ICMR-Fellow, PhD awarded by Osmania University in March 2024 (currently Project Coordinator-UNICEF-LFOF, ICMR-National Institute of Nutrition, Hyderabad)
- K Ashok Reddy, ICMR-Fellow, PhD awarded by Osmania University in December 2022 (currently Managing Director, Synteny Life Sciences Pvt Ltd, Hyderabad).
- Ch Uday Kumar, ICMR-Fellow, PhD awarded by Osmania University in March 2022 (Currently Postdoctoral Fellow at Harvard Medical School and Massachusetts General Hospital, USA).
- P. Swathi Chitra, ICMR-Fellow PhD awarded by Osmania University in June 2021 (currently Assistant Professor/Course Coordinator at the National Institute of Nutrition, Hyderabad).
- PS Prashanthi, PhD awarded by Osmania University in March 2021 (currently Technical Officer at the National Institute of Nutrition, Hyderabad).
- K. Rajesh Kumar, DBT-Fellow, PhD awarded by Osmania University in July 2020 (currently Research Associate at the Cincinnati Children's Hospital Medical Center, USA).
- Rahul Kshirsagar, PhD awarded by JNTU-Hyderabad in May 2020 (Co-Supervisor) (currently Principal, Yash Institute of Pharmacy, Aurangabad)
- T. Shalini, ICMR-Fellow, PhD awarded by Osmania University in November 2019 (currently Research Associate at Columbia University New York, USA)
- M. Sivaprasad, ICMR-Fellow, PhD awarded by Osmania University in June 2019 (currently Editorial Consultant at Turaco Healthcare Pvt. Ltd).
- Sneha Jakhota, UGC-Fellow, PhD awarded by Osmania University in March 2019 (currently DBT-BioCARE Scientist at the National Institute of Nutrition, Hyderabad).
- S. Vishwaraj, CSIR-Fellow, PhD awarded by Osmania University in April 2018 (Currently Senior Scientist, Gordian Biotechnology, South San Francisco, CA, USA).
- Sara Sarin Jose, ICMR-SRF PhD awarded by Osmania University, April 2018 (currently Assistant Professor at St. Teresa's College, Ernakulam, Kerala).
- K. Shruthi, DST-INSPIRE-Fellow, PhD awarded by Osmania University in March 2018 (Currently Assistant Research Scientist at the University of California, Berkely, USA).
- G. Kishore Kumar, CSIR-Fellow, PhD awarded by Osmania University in February 2018 (Currently Assistant Professor, Shathavahana University, Karimnagar).
- Madhoosudan A Patil, ICMR-Fellow, PhD awarded by Osmania University, April 2015 (currently Senior Scientist at Ora, Inc, Andover, MA, USA)
- V. Sudhakar Reddy, UGC-Fellow, PhD awarded by Osmania University, February 2015 (Currently Scientist-C at the National Institute of Nutrition, Hyderabad).
- P. Muthenna, UGC-Fellow, PhD awarded by Osmania University, September 2013 (Currently Associate Professor, Shathavahana University, Karimnagar)
- P. Yadagiri Reddy, PhD awarded by Osmania University, October 2012 (Retired as Technical Officer from National Institute of Nutrition, Hyderabad)
- A. Satyanarayana, ICMR Fellow, PhD awarded by Osmania University, August 2012 (Currently Research Scientist at the University of Tennessee, Memphis, USA)
- T. Mrudula, PhD awarded by Osmania University, October 2010 (Currently Associate Solution Leader, Brane Enterprises Pvt Ltd)).
- PNBS Srinivas, DBT-SRF, PhD awarded by Osmania University, August 2010 (Currently Senior Scientist, Aurobindo Pharma, Hyderabad)
- Megha Saraswat, ICMR Fellow, PhD awarded by Osmania University, October 2009
- P. Anil Kumar, CSIR Fellow, PhD awarded by Osmania University, March 2008 (Currently Associate Professor, Department of Biochemistry, University of Hyderabad)
- M. S. Moghaddam, PhD awarded by University of Pune, March 2005 (Co-Guide) (Currently Associate Professor at the University of Pyam Noor, Iran)

- M. Satish Kumar, CSIR Fellow, PhD awarded by Osmania University, April 2005 (Currently Professor & Director-Pulmonary/Basic Science, College of Medicine, University of Cincinnati, USA)
- Raghu Pullakhandam, CSIR Fellow, PhD awarded by Osmania University, April 2004 (Currently Scientist-F & HoD-Drug Safety Division, ICMR-National Institute of Nutrition, Hyderabad) (Co-Supervisor)

MSc by thesis

- Mr. Snehasis Tripathy, M. Pharm (Pharmacol), GITAM University, Visakhapatnam, 2024
- Mr. Abdul, MSc (Applied Nutrition), NIN-KNR Health University, 2023
- Ms. Sudeshna, MSc (Applied Nutrition), NIN-KNR Health University, 2023
- Ms. A Amulya, BTech (Biotechnology), Chaitanya Bharathi Institute of Technology (OU), 2023
- Ms. R Annapurna, MSc (Biochemistry), Osmania University, 2023
- Ms. Niti Agrawal, MSc (Applied Nutrition), NIN-KNR Health University, 2022
- Ms. Debolina Chaki, MSc (Applied Nutrition), NIN-KNR Health University, 2018
- Ms. Nebadita Majji, MSc (Applied Nutrition), NIN-NTR Health University, 2017
- Ms. Shayari Das, MSc (Applied Nutrition), NIN-NTR Health University, 2016
- Ms. Dorit Joy, MSc (Applied Nutrition), NIN - NTR Health University, Hyderabad, 2016
- Ms. B. Binasha, MSc (Applied Nutrition), NIN - NTR Health University, Hyderabad, 2013
- Ms. Preskshi Srivastava, MSc (Applied Nutrition), NIN - NTR Health University, Hyderabad, 2013
- Mr. S. Chennakhesava Reddy, MSc (Pharmacology), NIPER, Hyderabad, 2012-13
- Ms. M. Nagamani, IMSc (Optomet & Vis Sci), SMS, Hyderabad University, Hyderabad, 2012-13
- Mr. M. Sudarshan, MSc (Applied Nutrition), NIN - NTR Health University, Hyderabad, 2012
- Ms. Nilanja Pal, MSc (Applied Nutrition), NIN - NTR Health University, Hyderabad, 2011
- Mr. G. Mahesh Kumar, MSc (Pharmacology), NIPER, Hyderabad, 2010-11
- Mr. Prashanth Kumar, MSc (Pharmacology), NIPER, Hyderabad, 2009-10
- Ms. Akileshwari, MSc (Biotechnol), Jawaharlal Nehru Technological University, Hyderabad, 2009
- Ms. P. Swathichitra, MSc (Nutrition), Avinashilingam Institute for Home Science. Coimbatore, 2006
- Ms. I. Srivalli, MSc (Applied Nutrition), National Institute of Nutrition, Hyderabad, 2002

Trainees: Trained about 90 (MSc/ BSc students in Biochemistry/ Biotechnology/ Nutrition) students for project work and summer training including the candidates sponsored by **Indian Academy of Sciences**.

Current Postdoctoral Fellows/ Young Investigators

- Dr Sneha Jakhotia, DBT-BioCARE Scientist
- Dr Kamakshi Dandu, DBT-BioCARE Scientist
- Dr Hima Kumari, DST-Woman Scientist
- Dr S Pandarinath, ICMR-RA

Past Young Investigators/ Woman Scientists/ Postdoctoral Fellows

- Dr. Digambar Kavitate, SERB-NPDF (currently Senior Scientist, Arjuna Naturals Pvt Ltd, Kochi)
- Dr Sneha Jakhotia, ICMR-PDF (currently DBT-BioCARE Scientist at ICMR-National Institute of Nutrition)
- Dr M Nagaraju, SERB-NPDF (currently Postdoctoral Fellow, University of Connecticut, Farmington,)
- Dr. Utkarsh R Addi, SERB-NPDF (currently Postdoctoral Fellow at Wisconsin Eye Institute, USA)
- Dr Swagata Banerjee, ICMR-RA (currently Associate Editor, Wiley Publishers)
- Dr. G. Praveen, ICMR-PDF (currently Research Associate at Columbia University New York, USA)
- Dr. T. Kranti Kishore, ICMR-PDF (currently Postdoctoral Fellow at Columbia University, NY, USA)
- Dr. Y. K. Prabhakar, ICMR-PDF (Currently working at Krijan Biotech, Bengaluru)
- P. Swathi Chitra, DST-Woman Scientist-A (Currently Assistant Professor, National Institute of Nutrition)
- Dr. Swapna Nagalingam, Research Associate in a DBT project (currently Lecturer)
- Dr. G. Raghu, DBT-PDF (currently Assistant Professor at the University of Alabama, USA)
- Dr. V. Vakdevi, ICMR-PDF (currently Scientist-D at ICMR-National Institute of Nutrition, Hyderabad)
- Dr. S. Sreenivasa Reddy, CSIR-Senior RA (currently Scientist-D at ICMR-National Institute of Nutrition)

Teaching: To participants of M. Sc. (Applied Nutrition), PG Certificate Course (Nutrition), Certificate Course in Endocrinology, Animal House Training Courses and Pre-PhD. (Biochemistry) students at Osmania.

PUBLICATIONS

Research articles:

1. Banerjee S, Shyam SK, Jatavath R, Roy S, **Reddy GB**. A label-free in vitro detection platform for human serum copper using a Su-per-stable fenton active gold-coated silver nanoprism by UV-visible spectroscopy. **ACS Omega** (submitted revised version).
2. AK Sharma, S Rao, AC Antony, RM Vora, HK Dutta, SJ Karmarkar, J Modi, S Vishnubhatla, **GB Reddy**, M Kabra, V Kancherla. Prevention of neural tube defects (NTD) in India. **Annals of NAMS** (Accepted).
3. KK Kalahasti, S Jakhotia, M Nagaraju, SS Reddy, **GB Reddy*** Functional food prevents diabetic nephropathy in a rat model through inhibition of aldose reductase and accumulation of advanced glycation end-products. **Pharma Nutr** (Accepted)
4. M Nagaraju, KK Kalahasti, U Suryavanshi, SS Reddy, **GB Reddy***. Vitamin B12 modulates D-galactose-induced renal dysfunction associated with advanced glycation endproducts and hyperphosphatemia in aged rats. **Indian J Med Res** (In press).
5. U Suryavanshi, M Nagaraju, ACT Mallu, **GB Reddy**, VS Reddy. Vitamin B12 supplementation attenuates ER stress and neuronal cell death in the cortex of high-fat-high-sucrose fed male mice. **Nutrition**. 2025 Apr; 138:112808. PMID: 40499198
6. P Savitikadi, L Dash, KK Angadi, **GB Reddy**, Reddy VS. Systemically administered mini α -crystallin peptide delays cataract progression in streptozotocin-induced diabetic rats. **Biochim Biophys Acta (Gen Sub)**. 2025 Apr 26:130814. doi: 10.1016/j.bbagen.2025.130814. PMID: 40294808
7. JK Singh, PB Devi, PU Rani, DR Rajapuram, D Kavitate, **GB Reddy**, PH Shetty. Purification and characterization of a bacteriocin produced by the probiotic *Lactiplantibacillus plantarum* subsp. *Argentoratensis* strain I1B. **3 Biotech**, April 2025; 15:137. <https://doi.org/10.1007/s13205-025-04279-5>.
8. V Manika, PB Devi, SP Singh, **GB Reddy**, D Kavitate, PH Shetty. Microbial poly-glutamic acid: Production, biosynthesis, properties, and their applications in the food, environment and biomedical. **Fermentation** 2025, 11, 208. <https://doi.org/10.3390/fermentation11040208>.
9. M Nagaraju, KK Kalahasti, U Suryavanshi, SS Reddy, **GB Reddy***. Amelioration of D-galactose-induced renal injury by a functional food mix through AGE/RAGE/NF- κ B dependent mechanism in a rat model. **Curr Functional Foods** (10.2174/0126668629328687240926050822).
10. **GB Reddy**. Book Review of 'Annual Review of Nutrition, 2023, Vol 43'. **Curr Sci**. 2024; 127 (11): 1363-64.
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Books & Book Chapters/Monographs:

1. **Textbook of Human Nutrition (Editors: MS Bamji, R Hemalatha, G Bhanuprakash Reddy) 5th Edition, 2024, CBS Publishers (In print).**
2. R Pullakhandam, R Palika, CN Neeraja, **GB Reddy** (2024). Importance of nutrient requirements of humans. In: Tiwari, S., Singh, B. (eds) *Harnessing Crop Biofortification for Sustainable Agriculture*. Springer, Singapore. 2024. https://doi.org/10.1007/978-981-97-3438-2_1.
3. AK Pasupulati, V Nagati, ASV Paturii, **GB Reddy**. Non-enzymatic glycation and diabetic kidney diseases. *In Vitamins and Hormones*, Vol 124 (Glycation): 251-258 (Ed: Gerald Litwack), 2024, Academic Press. ISBN 0083-6729. <https://doi.org/10.1016/bs.vh.2024.01.002>
4. G Praveen, M Sivaprasad, **GB Reddy**. Telomere length and vitamin B12. *In Vitamins and Hormones*, Vol 119 (Vitamin B12): 299-324 (Ed: Gerald Litwack), March 2022, Academic Press.
5. Reddy GB. **Nutrient Requirement for Indians**: Recommended Dietary Allowance and EAR [2020]- A report of the expert group. Contributed to the chapters on Water soluble vitamins and Fat-soluble vitamins. ICMR-National Institute of Nutrition, 2020.
6. Reddy VS, Trinath J, **Reddy GB** (2020). Small heat shock proteins in inflammatory diseases. *in Heat Shock proteins in Inflammatory Diseases* (Heat Shock Proteins-22; Eds: AAA Asea and P Kaur). Springer https://doi.org/10.1007/7515_2020_9.
7. SS Reddy, **GB Reddy** and K Krishnaswamy. Case studies on functional foods-Health benefits of turmeric (*Curcumin longa Linn*). In: *Functional Foods Monographs 2017*. ILSI Southeast Asia Region Monograph Series, 2018, pp 32-27. <http://ilsisea-region.org/wp-content/uploads/sites/21/2018/07/ILSI-SEA-Region-Functional-Foods-Monograph-2017.pdf>
8. **GB Reddy**. Prospects of nutrigenomics for public health nutrition in India: Opportunities & challenges. In: *Insights on Global Challenges and Opportunities for the Century Ahead*. (Eds: VD Reddy, KV Rao and K. Rama Krishna), pp 217-224, Osmania University Centenary Celebrations (1917-2017), 2017. BS Publications, Hyderabad.
9. **GB Reddy**, PS Chitra and N Arlappa. Aging: health and nutrition *in Textbook of Human Nutrition* (eds: MS Bamji, K Krishnaswamy & GNV Brahman) 4th Edn, pp 445-464, 2016, Oxford & IBH, New Delhi.
10. K Krishnaswamy and **GB Reddy**. Water soluble vitamins-deficiency disorders *in Textbook of Human Nutrition* (eds: M.S. Bamji, K. Krishnaswamy & G. N. V. Brahman) 4th Edn, pp 336-357, 2016, Oxford & IBH, New Delhi.
11. N Lakshmaiah, AV Lakshmi and **GB Reddy**. Water soluble vitamins *in Textbook of Human Nutrition* (eds: MS. Bamji, K Krishnaswamy, GNV Brahman) 4th Ed, 63-84, 2016, Oxford & IBH, New Delhi.
12. **GB Reddy** and P Suryanarayana. Diabetes and diabetic complications and *Phyllanthus sp* in *Phyllanthus* species: Scientific Evaluation and Medicinal Applications (eds: K. B. Hari Kumar & Ramadas Kuttan), pp 235-253, 2011, Taylor & Francis Group.
13. **GB Reddy** and N Saravanan. Nutrition and eye diseases *in Textbook of Human Nutrition* (eds: M.S. Bamji, K. Krishnaswamy & GNV. Brahman) 3rd Edn, pp 418-430, 2009, Oxford & IBH, New Delhi.

Popular Articles:

14. **GB Reddy**. Functional food components and nutraceuticals in the management of complications of diabetes. **CRNSS-Nutrition in Disease Management**. Update Series 78, April 2018.
15. Sivaprasad M, Shalini T, Balakrishna N, Sudarshan M, Lopamudra P, Suryanarayana P, Arlappa N, Ravikumar BP, Radhika MS, **Reddy GB**. Status of vitamin B12 and folate among the urban adult population in South India. **Nutrition News**. 2018; **39** (Issue1)
16. **GB Reddy**. Nutrition and cataract. **CRNSS-Nutrition in Disease Management**, Update Series 67, July 2015.
17. **Reddy GB**. Nutrition and cataract. **In Touch** 2014; **16** (Issue 1-April-June): 2-7
18. **Reddy GB**. Molecular-target based nutraceuticals: Prospects for alleviating diabetic complications. **Nutrition News**, 2009; **30** (Issue 1)
19. **Reddy GB**. Diabetic complications and dietary factors. **In Touch** 2008; **9**:4
20. **Reddy GB**, Suryanarayana P. Turmeric and curcumin delay cataract in rats. **Nutrition News**. 2005; **26** (Issue1&2)
21. **Reddy GB**, Reddy PY, Suryanarayana P. Cataract: Role of nutritional chaperones. **Nutrition News**, 2001; **22** (Issue 2)

List of Patents/IPR:

- ALR2 inhibitors and their synthesis from a natural source (JM Rao, **GB Reddy**, VRS Rao and P. Muthenna); Patent # WO/2011117706; US 20120245357; EP 2550063 A1.
- Isolation and characterization of molecules(pm-2) from cinnamon and its antiglycating potential (**GB Reddy**, P. Muthenna, C. Akileshwari and G. Raghu). Application Number: **1452/DEL/2012**.
- A prophylactic composition for diabetes-associated complications (**GB Reddy**, SS Reddy, KK Kalahasti, S Pandarinath, M Nagaraju). IPR Application Number: **202311067322**
- Anti-obesogenic functional food and method of preparation thereof (**GB Reddy**, SS Reddy, KK Kalahasti, S Pandarinath). IPR Application Number: **202411045411**
- β -glucogallin from *Embblica officinalis* as a chemopreventive agent against breast cancer (**GB Reddy**, KP Reddy). IPR Application Number: **202411073461**

SELECTED INVITED TALKS (Out of total 108):

1. Spices as nature's pharmacy: Therapeutic potential of spices and their bioactive compounds at the National Health Research Conference-2025 on 'Nutraceutical and Functional Foods in Health' at Mumbai on March 12, 2025
2. Nutritional requirements: Concepts and interpretations of EAR, RDA and TUL. At the Consultation on Dietary Guidelines for Indians Meeting by NIHFW & ICMR-NIN, Hyderabad, December 16, 2024.
3. From research to practice: Implementing evidence-based approaches in nutrition for geriatrics. At the International Conference on 'Vanasprashthshram: Longevity and Health in Senior Citizens. Dr. BMN College of Home Science, Mumbai, December 10, 2024.
4. **Dr SG Srikanthia Oration Lecture** on B-vitamin: Aging and age-related disorders. At the 56th Annual Conference of Nutrition Society of India, Pune, November 14-15, 2024
5. Aging: Dementia, frailty, and nutrition. At the National Workshop on Behavior and Brain Health in Aging, University of Hyderabad, October 18-19, 2024.
6. Food supplements and nutraceuticals in health. At **Word Food Day-2024** programme organized by Telangana Academy of Sciences and National Institute of Technology-Warangal, Oct 16, 2024.
7. Role of non-enzymatic glycation in profibrotic mechanisms: A scope for drug development. To the participants of the Faculty Development Programme organized by NIPER-Hyderabad, 19-03-2024.
8. **National Science Day Lecture** on *Indigenous Technologies for Viksit Bharat: Hundred Years Contributions of NIN to the Nation*. Andhra Mahila Sabha Arts & Science College, Osmania University, February 28, 2024
9. Micronutrients and prediabetes. At the Vishwa Swasthyam 2024: International Conference on Integrative Global Health, Mumbai, January 6-7, 2024.
10. **Vepachedu Gopalkishan Rao Memorial Endowment Award Lecture** on 'A journey with the inhibitors of aldose reductase and non-enzymatic glycation'. At the Department of Biochemistry, University College of Science, Osmania University, December 28, 2023
11. Scope for nutrigenomic studies in public health nutrition. At Nutrition Seminar Series III on Connecting Nutrition and Health through the Integration of 'Omics' Data. Conducted by N2RTU, Centre for Biomedical and Nutrition Research, Universiti Tunku Abdul Rahman, Malaysia in association with University of Reading, UK. November 18, 2023
12. Nutraceuticals in food and health. At the XVI Agricultural Science Congress, Kochi, Oct 10-13, 2023
13. Meeting the nutrient requirements through balanced diet, to the students and faculty of Andhra Mahila Sabha Arts & Science College, Osmania University, Hyderabad on 27-09-2023.
14. Protein glycation mediated fibrosis signalling mechanisms: A scope for the development of therapeutics. to the participants of the Refresher Course in Molecular Medicine at the UGC-Human Resource Development of Centre, Osmania University, Hyderabad. August 22, 2023.
15. **Back to nature** for complications of diabetes and obesity. **National Science Day Lecture** at the Indian Food and Beverage Association, February 28, 2023
16. Indian perspectives and need for scientific outlook as Indian way of life. **National Science Day Lecture** at the RBVR Women's College, Hyderabad, February 27, 2023.
17. Industry-Academia Collaboration for Promotion of Innovations & Translational Research. Hyderabad Life Science Innovation Cluster Meet, Organized Federation of Asian Biotech Associations (FABA), 23-02-2023
18. Micronutrient deficiencies and molecular mechanisms in diabetic complications. At the CME program of National Academy of Medical Sciences Annual Conference, Jaipur, November 11-13, 2022.
19. Micronutrient status and biochemical pathways in diabetic complications: Scope for nutrigenomics studies. At the International Conference on Frontiers in Nutrition, Medical Genomics and Drug Discovery, Vigan

- Foundation for Science, Technology and Research, Vadlamudi, Oct 31-Nov 2, 2022.
20. Nutrient requirements: Why elderly cannot be left behind. At the **National Webinar on "Leave no one behind"** on the occasion of World Food Day, National Institute of Nutrition, October 17, 2022.
 21. Vitamin D deficiency: metabolites and assessment methods. At the International Symposium of 'Role of Vitamin D in Early Life'. St John's Medical College, Bengaluru, Sep 19-20, 2022.
 22. Scope for 'omics' studies on public health nutrition in India. At the International Conference on Advances in Genetic Diagnostics in the Era of Omics, Inst of Genetics, Hyderabad, June 17-18, 2022.
 23. Impact of the COVID- 19 Pandemic on Vision Research: Reflections and Lessons Learned. At the Association for Research in Vision and Ophthalmology (**ARVO Covid Webinar**), November 3, 2021.
 24. Biochemical and functional evidence of micronutrient deficiencies in India. At **NASI-NIN Webinar** on Food-based Remedies to Nutrition Maladies-*Commemorating the Rashtriya POSHAN Maah*, Sep21, 2021.
 25. Immunity and nutrition in the context of Covid-19. At the **NASI Webinar on Jagrukta Abhiyan for Covid-19 Pandemic**. July 28, 2021.
 26. **National Science Day Lecture**: Biology of complications of diabetes, food and nutrition. At the Apollo Institute of Medical Sciences and Research, Hyderabad, February 26, 2021
 27. Spices and their novel bioactive molecules for diabetes complications. At the International Spice Symposium-**SymSacX** (virtual) organized by Indian Institute of Spices Research, Feb 9-12, 2021.
 28. Micronutrient status: sub-clinical status and dietary intakes in apparently healthy adults and in complications of diabetes. **At the two-day Science Academies (INSA, IAS, NASI) Lecture Workshop** (virtual) organized by SN Vanita Maha Vidyalya, Hyderabad, Feb 9-10, 2021
 29. Nutrigenomics for public health research: Opportunities and challenges. At the Webinar on A paradigm shift in nutrition from generic to person-centric – setting the stage for the transition organized by Symbiosis International (Deemed University), Pune, September 29, 2020.
 30. Interdisciplinary approaches to teaching and research in biology. At the National Webinar on ICT Enabled Science Education in India, organized by Telangana Academy of Sciences, June 28, 2020.
 31. **Keynote Address** on Recent research trends in systems nutrition and nutritional biochemistry. At the National Conference on 'Recent Research on Innovations in Life Sciences', MMK & SDM Mahavidyalaya, Mysuru, January 31, 2020.
 32. Glycation in aging and age-related disorders: Novel antiglycating agents from natural sources. At the 5th IUPHA World Conference on the Pharmacology of Natural Products, National Institute of Nutrition, Hyderabad, December 5-7, 2019
 33. **Keynote Address** on "Nutrigenomics-opportunities and challenges in India" at the ICMR-sponsored workshop on 'From Nutrigenetics to Personalized Nutrition' University of Mysore, Mysuru, Aug 22-23, 2019.
 34. **Bireswar Chakraborty Oration** on 'Our journey through Ocular complications of diabetes and obesity: Biology, food and nutrition'. At the ARVO-INDIA Chapter Annual Meeting of Indian Eye Research Group, Chennai, July 27-28, 2019
 35. Molecular chaperones as drug targets for fibrotic diseases. At the International Conference on Applied Chemical Biology & Biologics, IICT Platinum Jubilee Celebrations, Hyderabad, Feb 28-Mar 2, 2019.
 36. A need for review of various health and nutrition standards. At the International Conference on Developmental Discourse, Hyderabad, February 8-10, 2019.
 37. **Golden Jubilee Lecture** on Diabetic complications and functional foods. At the Golden Jubilee Celebrations and National Seminar on Nutraceuticals and functional foods, Indian Institute of Food Processing Technology, Thanjavur, January 30, 2019.
 38. Sorbitol: A molecular link between metabolic syndrome and neuronal & retinal degeneration. At the Telangana State Science Congress, National Institute of Technology, Warangal, Dec 22-24, 2018.
 39. Functional food molecules in the management of diabetic complications. At the CSIR-Platinum Jubilee International Conference on Biotechnological Research and Innovation for Sustainable Development, Hyderabad, November 22-25, 2018.
 40. Diabetic wound: Diet and nutrition. At the 16th Annual Conference of Diabetic Foot Society of India, August 31-Sept 2, 2018, Hyderabad.
 41. Establishing the maximum levels for vitamins & minerals in food products. At the FSSAI-ReCHaN meeting on "Vitamins & minerals: Regulatory approaches to the establishment of maximum levels in health supplements and nutraceuticals, FDA Bhavan, New Delhi, July 25, 2018
 42. Molecular chaperones as drug targets for fibrotic diseases at the International Conference on Integrative Biology & Applied Genetics" at the IICT, Hyderabad, March 15-16, 2018
 43. Functional food components in the management of diabetic complications. Symposium speaker at the 49th

- National Conference of Nutrition Society of India, Jorhat, November 3-4, 2017
44. Design, planning and execution of in vitro and animal studies for nutrition studies. Pre-Conference Workshop at the 49th National Conference of Nutrition Society of India, Jorhat, Nov 2, 2017.
 45. Complications of diabetes and obesity: Biology of food and nutrition. At the School of Life Sciences, Pondicherry University, August 21, 2017.
 46. Sorbitol-mediated activation of insulin signaling and ER stress in obesity-induced retinal degeneration. At the 24th Indian Eye Research Group (ARVO-India Chapter), Madurai, July 29-30, 2017.
 47. Regional Scientific Updates on use of animal models in Biomedical Research. At the JAX-India Symposium on Animal Health and Colony Management conducted by the National Center for Laboratory Animal Sciences and Jackson Laboratory (USA), Hyderabad on June 1, 2017
 48. Modulation of signaling mechanisms in diabetic complications by micronutrient status at the 85th Annual Meeting of Society of Biological Society (India), Mysuru, October 21-24, 2016.
 49. Functional food molecules as novel aldose reductase inhibitors and antiglycating agents. International Conference on Nutraceuticals and chronic diseases, Cochin, September 9-11, 2016
 50. Molecular nutrition of complication of diabetes and obesity. At the Department of Ophthalmology, University of Colorado Denver, USA, November 21, 2014.
 51. Nutritional problems of the persons with disability. At the International Symposium on Global Disability and Health, PHFI-Indian Institute of Public Health, Hyderabad, February 22-23, 2014.
 52. Impact of metabolic syndrome on retinal abnormalities in rodent models. At Asia-ARVO (Association for Research in Vision and Ophthalmology) International Conference, New Delhi, Oct 28-31, 2013.
 53. Diabetic retinopathy: Functional foods. At the International Workshop on New Frontiers in Treating and Preventing Diabetic Retinopathy, CR Rao Advanced Institute, Hyderabad, January 30-31, 2013.
 54. Nutrigenomics of ocular complications of diabetes. At the Indo-US Science & Technology Forum brain storming meeting on Novel Tools and Themes in Vision Sciences, Hyderabad, Jan 21-22, 2013
 55. Molecular-target based phytonutrients for diabetic complication. Symposium (Molecular Nutrition) At 80th Annual Meeting of Society of Biological Chemists (India), Lucknow, November 13-15, 2011
 56. Mutations, retinal dystrophies, and phytonutrients. Symposium (Chemical Basis of Nutrient Function) At 43rd National Conference of Nutrition Society of India, Hyderabad, Nov 11-12, 2011
 57. Concepts, principles and applications of nutrigenomics. Pre-Conference Workshop speaker at the 43rd National Conference of Nutrition Society of India, Hyderabad, November 10, 2011
 58. Structural and functional impact of a novel mutation (F71L) in α -crystallin associated with age-related cataract. At the Indo-US Bilateral Symposium on Aging and Age-Related Diseases, National Institute of Immunology, New Delhi, Marc 3-4, 2011
 59. Diet-based approach for diabetic complications. At the International Conference on Traditional Foods, conducted by Pondicherry University, Pondicherry, Dec1-3, 2010.
 60. Characterization of retinal degenerations in WNIN-Ob rat model. At the symposium on "Animal models developed by Indians in India" conducted by National Center for Laboratory Animal Sciences, Hyderabad, April 24, 2010.
 61. Nutritional & dietary factors in diabetic ocular complications. At the 41st National Conference of Nutrition Society of India, Hyderabad, November 20-22, 2009
 62. Nutritional and dietary factors in complications of diabetes. At 6th Indo-Australian Biotechnology Conference on "Nutrition and life-course evolution of non-communicable diseases", Hyderabad, September 2-4, 2009
 63. Structure and functional significance of heteropolymer of eye lens small heat shock protein, α -crystallin. At National Conference on Cellular and Molecular Biophysics conducted by Indian Biophysical Society, CCMB, Hyderabad, January 22-24, 2009
 64. Chaperone-like activity of β -crystallin under hyperglycemic conditions. At the Asia-ARVO International Conference, Hyderabad, January 15-18, 2009
 65. Diabetic ocular complications and dietary factors. At Dept of Ophthalmology and Dean A. McGee Eye Institute, University of Oklahoma Health Science Center, Oklahoma City, USA, Oct 19, 2007.
 66. Expression, structure, and function of small heat shock proteins, alpha-crystallins, under hyperglycemic conditions. At the Department of Ophthalmology and Visual Sciences, Washington University, St. Louis, MO, USA, October 17, 2007
 67. Nutrition Research in the era of 'Omics' and beyond. At the Trendys in Biochemistry-2006 meeting, National Institute of Nutrition, Hyderabad, August 18-19, 2006
 68. Retinal degenerations in obese rat: microarray analysis. At the Indo-Swedish Workshop on Genomics and

- proteomics of diabetes, Madras Diabetic Res Foundation, Chennai, Apr 1-2, 2006
69. Anticataract potential of dietary components. At the *National Eye Institute*, National Institutes of Health, Bethesda (USA), January 19, 2006
 70. Curcumin: Role in delaying the progression of cataract. At Grandrounds of Kellogg Eye Center, *University of Michigan* (USA), October 27, 2005
 71. Effect of glycation on molecular chaperone function of eye lens α -crystallin. At the Kellogg Eye Center, *University of Michigan* (USA), July 17, 2003
 72. Effect of diabetes and dietary factors on molecular chaperone function of eye lens α -crystallin. At the *Washington University*, Department of Ophthalmology, St. Louis (USA), June 16, 2003
 73. Structural determinants of chaperone function of α -crystallin: A study with single tryptophan mutants. At Molecular Biology Unit, *Indian Institute of Science*, Bangalore, May 17, 2000.

PAPERS PRESENTED AT SCIENTIFIC MEETINGS (Last 5 years from a total of 90)

1. S Udaykanth, M Nagaraju, ACT Mallu, **GB Reddy**, VS Reddy. Vitamin b12 supplementation attenuates er stress and neuronal cell death in the cerebral cortex of mice fed with high fat high sucrose diet. At the 56th Annual Conference of Nutrition Society of India, Pune, November 14-15, 2024
2. P Savitikadi, KK Kalahasti, SS Reddy, **GB Reddy**. A polyherbal formulation prevents obesity associated cardiac hypertrophy in a spontaneous obese rat model. At the 56th Annual Conference of Nutrition Society of India, Pune, November 14-15, 2024
3. JM Petrash, M Pedler, KK Kalahasti, **GB Reddy**. Dietary intake of a functional food mixture protects against PCO following extracapsular lens extraction in a mouse model. At the Annual Meeting of Association for Research in Vision and Ophthalmology, Seattle, USA, May 5-9, 2024. Abstract published *Invest Ophthalmol Vis.* 2024; 65(7): A3235.
4. V Vepakomma, S Singireddy, N Agarwal, T Shalini, **GB Reddy**. Oxidative stress and micronutrient status in elderly with and without frailty. At the 55th Annual National Conference of the Nutrition Society of India, Hyderabad Nov 25-26, 2023.
5. S Gurralla, PR Kallamadi, D Rajapuram, **GB Reddy**. Vitamin B6 deficiency induces cardiac fibrosis through AGE-modification of extracellular matrix proteins. At the 55th Annual National Conference of the Nutrition Society of India, Hyderabad Nov 25-26, 2023.
6. U Suryavanshi, KK Angadi, VS Reddy, **GB Reddy**. Impact of vitamin B12 supplementation on streptozotocin-induced diabetic rat brain. Presented at the 22nd IUNS-International Congress of Nutrition, Tokyo, Japan, December 6-11, 2022. *Annals Nutr Metab* (2023) 79 (Suppl. 1): 457
7. KK Kalahasti, M Nagaraju, SS Reddy, **GB Reddy**. A Functional Food Formulation for Diabetic Nephropathy. Presented at the 22nd IUNS-International Congress of Nutrition, Tokyo, Japan, December 6-11, 2022. *Annals Nutr Metab* (2023) 79 (Suppl. 1): 682
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