Geetha Thangiah, Ph.D.
Alumni Professor
Department of Nutritional Sciences
College of Human Sciences
Auburn University
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EDUCATION

Postdoctoral Fellow., Cell and Molecular Biosciences, Auburn University, Auburn, AL
Ph.D., Medical Biochemistry, University of Madras, Chennai, India
M.S., Medical Biochemistry, University of Madras, Chennai, India
B.S., Chemistry, University of Madras, Chennai, India

ACADEMIC APPOINTMENTS

2024-	Professor, Department of Nutritional Sciences, Auburn University, AL
2024-2029	Alumni Professor, Auburn University, Auburn, AL, USA
2021- 2024	Associate Professor (tenured), Auburn University, Auburn, AL, USA
2017- 2021	Associate Professor, Department of Nutritional Sciences, Auburn University, AL
2013-2017	Assistant Professor, Department of Chemistry, Auburn University at Montgomery, AL
2011-2013	Assistant Research Professor, Auburn University, Auburn, AL, USA
2009-2010	Assistant Research Professor, Arizona State University, Tempe, AZ, USA
2001-2008	Postdoctoral Fellow, Auburn University, Auburn, AL, USA
1999-2001	Instructor, Ethiraj College for Women, Chennai, India

PROFESSIONAL APPOINTMENTS

Member:	American Diabetes Association
	Health Disparities Research Initiative, Auburn University
	Boshell Diabetes and Metabolic Disease Research Program
	Auburn University Food Systems Institute Obesity Working Group
	Center for Neuroscience, Auburn University
Grant Review Panel:	NIH Reproductive, Perinatal, and Pediatric Health Study Section
	NSF Graduate Research Fellowship Program Panel
	Alabama Agricultural Experiment Station (AAES) Review Panel
Editorial Board Member:	Genes
	Frontiers in Endocrinology
	Journal of Obesity and Bariatrics
	Innovare Journal of Food Science
	European Journal of Bioinformatics

TEACHING

Courses Teaching in Current Rank at Auburn University:

NTRI 8990: Research and Dissertation – This course is designed for graduate students who would like to undergo an intense research program. The students are expected to work on research projects, analyze data, present their results in professional meetings, and publish in peer-reviewed manuscripts.

NTRI 8850/7850/7850-D01: Research Seminar for Doctoral/Master's Program – This is one credit advanced topic in nutrition or hospitality management presented by Master's and Doctoral students. This course is a capstone experience, in which students identify a research topic, conduct comprehensive literature reviews, write an abstract, and then develop a Research Seminar Presentation. It provides students opportunities to develop skills in publicly presenting research papers.

NTRI 7980: Non-Thesis Research – This course is designed to be more flexible and is tailored for graduate students who don't necessarily need a great deal of research training. The course is organized largely around working on a research paper, with a goal of making it a journal-publishable article.

NTRI 7930: Advanced Topics in Nutrition and Food Science - This course involves advanced study of a particular theme or topic through readings, research, and analysis. It is designed for students who plan to study specific topics in the areas of food, nutrition, and dietetics that interest them. Students are expected to intensively read a particular topic, write a review article, and submit the article for publication by the end of the course.

NTRI 7530/7530-D01: Human Nutrient Metabolism – This is a graduate level four credit advanced study of nutrition and metabolism, as related to humans. This course introduces graduate students to the metabolic pathways of three classes of substrates: carbohydrates, lipids, and proteins. This class covers the biochemical and physiological concepts and mechanisms related to normal healthy states to disease or pathologic states. The candidate taught this class during fall 2018, as Dr. Jeganathan was serving as Interim Associate Dean for Research, College of Human Sciences.

NTRI 7520/7520-D01: Macronutrients: Integration and Metabolism – This is a graduate level four credit lecture course that is team taught by three faculty members. This course is an advanced study of energy metabolism, digestion, absorption, transport and integrative metabolism of carbohydrates, proteins, and lipids. The candidate covers the proteins section of this course. The course is primarily lecture with problem-based learning applications provided through individual case-study analysis and primary research literature review applying the principles of the macronutrient metabolism to selected diseases and conditions.

NTRI 4980: Undergraduate Research and Study – This course involves undergraduate students interested in being involved in research projects. As a first research experience, emphasis will be

placed on learning laboratory basic techniques, analyze the results, and contribute to problem solving in Nutrition research. The student will be given the opportunity to present their results in professional meetings and serve as co-authors in manuscripts.

NTRI 2000: Nutrition and Health – This is an undergraduate level three credit lecture course. This is one of the larger classes at Auburn University, averaging 200 students per section, per semester. This course is part of the core curriculum for students in the College of Human Sciences and a required course for pre-nursing students. It is also taken as an elective by students from a variety of disciplines.

Courses Taught at Auburn University at Montgomery:

CHEM 1100/1200: General Chemistry I and II - This is a three-credit lecture course. It is part of the core curriculum for freshman students.

CHEM 1101/1201: General Chemistry I and II Lab - This is a one-credit lab course taught along with the lecture course. The candidate was involved in updating the "A Laboratory Manual for General Chemistry I [CHEM 1101]" 8th Edition.

CHEM 3300: Biochemistry - This is a three-credit lecture course. This course introduces junior and senior undergraduate students to all three macronutrients and their metabolism.

CHEM 3301: Biochemistry Lab - This is a one-credit lab course taught along with the lecture course. The candidate designed all the experiments independently.

1. Graduate Students Completed
Published Research Articles

a. Major Professor:

No.	*Name*	*Degree*	*Thesis/Non-thesis Title*	*Year*	*Current Position*
1	Priyadarshni Patel*	Ph.D. Nutrition	Nutrient Intake and Epigenetic Influences on Childhood Obesity: A Racial Perspective	Fall 2023	Postdoctoral Fellow, Emory University
2	Summer McNeill	M.S. Nutrition (non-thesis)	The Effect of Omega-3 Supplementation on Exercise Induced Inflammation and Recovery	Spring 2023	Preparing for RD exam
3	Brittannie Chester*	Ph.D. Nutrition	The Efficacy of a Diabetes Self-Management Education and Support Coaching Structure on Health Outcomes for the Ongoing Management of Type 2 Diabetes	Spring 2022	Associate Professor and Didactic Program Director (DPD) at Alabama A & M University
4	Priscilla Ayine*	Ph.D. Nutrition	An Analysis of Social-Ecological Elements Influence on Weight Gain in Children from Alabama	Spring 2021	Assistant Professor in Nutrition, Tennessee State University

5	Megan Phillips*	Ph.D. Nutrition	Contributions of DNA Copy Number and Structural Variation to Racial Disparities in Childhood Obesity	Spring 2021	Research Scientist, Discovery Life Sciences, Huntsville, AL
6	Bailey Saneman	M.S. Nutrition (non-thesis)	Sleep Duration, Patterns and Timing Associated with Childhood Obesity	Spring 2020	Renfrew Center, Specialist for eating disorders
7	Ashley Williams*	M.S. Nutrition (non-thesis)	The Effects of Vitamin D Supplementation on Metabolic Profiles in Women with Polycystic Ovary Syndrome	Summer 2019	Dietetic Intern Morrison Healthcare, Mobile Infirmary Hospital, AL

b. Committee Member:

No.	*Name*	*Degree*	*Thesis Title*	*Year*	*Current Position*
8	Emily Bourne	Ph.D. Nutrition	Beliefs and Intentions of U.S. Registered Dietitians/Registered Dietitian Nutritionists Toward Providing Breastfeeding Support to Prenatal/Postpartum Mothers	2024	Assistant Professor, Samford University, Birmingham, AL
9	Lauren Jun*	Ph.D. Nutrition	Exploration of Obesity, Type 2 Diabetes Mellitus, Nerve Growth Factor, and Exercise Impacts on Skeletal Muscle	2024	Postdoctoral fellow, Columbia University, NY
10	Courtney Frerichs	M.S. Nutrition (non-thesis)	Caffeine and Endurance Performance	2024	Dietetic Internship
11	Brandan Kauer	M.S. Nutrition (non-thesis)	Vitamin B12 and Its Effects on Alzheimer's Disease – A Narrative Review.	2024	Dietetic Internship
12	Becky Cannon	M.S. Nutrition (non-thesis)	Culinary Medicine and Its Impact on Nutrition Confidence in Pre-Health Students	2024	Dietetic Internship
13	Megan Robinson*	Ph.D. Nutrition	The Effect of Nerve Growth Factor on Gut Microbiota in Obesity, Type II Diabetes Mellitus, and Alzheimer's Disease in a Mouse Model	2023	Nutritionist, Pediatric Therapy and Wellness, Atlanta, GA
14	Emma Colombo	M.S. Nutrition (non-thesis)	Glutamine Supplementation and Gut Health	2023	Dietetic Internship
15	Sadie Jakim	M.S. Nutrition (non-thesis)	Vitamin D and Epilepsy	2023	Dietetic Internship
16	MaryGrace Gilkey	M.S. Nutrition (non-thesis)	Wernick's Encephalopathy and Thiamine Treatment of Alcoholics	2023	Registered Dietitian, Carolinas Medical Center, Charlotte, NC

17	Erika Richter*	M.S. Nutrition (non-thesis)	The Effects of *momordica charantia* (bitter melon) on Type 2 Diabetes Mellitus and Alzheimer's Disease	2023	Starting in Fall as Doctoral student in Nutritional Science, Auburn University, AL
18	Alexandra Clifton	M.S. Nutrition (non-thesis)	The Use of Carbon Isotope Analysis for Understanding Polyunsaturated Fatty Acid Metabolism	2023	Dietetic Internship
19	Megan Shawl*	M.S. Nutrition (non-thesis)	Omega-3 Supplementation and its Effects on Osteoarthritis	2023	Registered Dietitian, Mayo Clinic, Rochester, MN
20	Phillip Hajek	M.S. Nutrition (non-thesis)	A Clinical Prediction Model for Preventative Health Care	2023	Physician
21	Katherine Kinnaird	M.S. Nutrition (non-thesis)	The Role of Vitamin D in Post-Stroke Rehabilitation	2023	Dietetic Internship
22	Amanda Buchanan	M.S. Nutrition (non-thesis)	The Menopausal Transition and Metabolic Syndrome	2023	Dietetic Internship
23	Addison Rains	M.S. Nutrition (non-thesis)	The Effect of Vitamin D Supplementation on Depressive Symptoms in Adults	2023	Dietetic Internship
24	Claire Merva	M.S. Nutrition (non-thesis)	Probiotics for the treatment of depression: A narrative review of clinical trials	2023	Clinical Dietitian, West Chester, PA
25	Abril Rodriguez	M.S. Nutrition (non-thesis)	Potential Risks and Metabolic Concerns Associated with Obesity and Branched Chain Amino Acids	2023	Dietetic Internship
26	Jessica Crim	M.S. Nutrition (non-thesis)	Ashwagandha (AW) and its effects on stress and neuropsychiatric disorders: Anxiety, Depression, and Insomnia	2023	Dietetic Internship
27	Madelyn Borel	M.S. Nutrition (non-thesis)	Effects of Intermittent Fasting on Cancer Treatment and Prevention	2023	Dietetic Internship
28	Sara Tamplin	M.S. Nutrition (non-thesis)	Brain Abnormalities in Anorexia Nervosa	2023	Dietetic Internship
29	Xiaowen Ding*	Ph.D. Nutrition	The Role of Nerve Growth Factor in both Type 2 Diabetes and Alzheimer's Disease in the Mouse Model	2022	Postdoctoral Fellow, Stanford University, Stanford, CA
30	Jade Jensen	M.S. Nutrition (non-thesis)	Enhanced Recovery After Surgery (ERAS) Protocol: Gastrointestinal Tract Surgeries	2022	Clinical Dietitian Mayo clinic, Rochester, MN
31	Cailyn Meador	M.S. Nutrition (non-thesis)	The Effect of Caffeine on Endurance Cycling Performance	2022	Completed Dietetic Internship RD Eligible
32	Glenn Walters	M.S. Nutrition	Eating Disorders in Female Athletes	2022	Specialist for eating disorders

		(non-thesis)			
33	Linda Steinhardt	M.S. Nutrition (non-thesis)	Athletes' Opinions and Perceptions of, Behaviors Around, and Experiences with Body Composition Testing	2022	Registered Dietitian Denver, CO
34	Morgan Huebner	M.S. Nutrition (non-thesis)	Relieving IBS Symptoms with a Low FODMAP Diet: A Review of the Literature	2022	Dietetic Internship
35	Ansley Sharpe	M.S. Nutrition (non-thesis)	Adverse Childhood Experiences and Adult Outcomes	2022	Associate Scientist, Pharmaceutical Associates & Cooperative, South Carolina
36	Emily Knight*	M.S. Nutrition (non-thesis)	The Role of Diet and Dietary Patterns in Parkinson's Disease	2022	Doctoral student in Nutritional Science, Auburn University, AL
37	Madeline Workman	M.S. Nutrition (non-thesis)	Effects of Beta-Alanine Supplementation on Athletic Performance	2022	Registered Dietitian Tennessee
38	Elizabeth Miller	M.S. Nutrition (non-thesis)	Effects of Polyunsaturated Fatty Acids in Children Diagnosed with Attention-Deficit/Hyperactivity Disorder	2022	Nutritionist, Alabama Dept of Public Health
39	Heidi Lohmann-Schrader	M.S. Nutrition (non-thesis)	The Effect of Bariatric Surgeries on Binge Eating Disorder	2022	Registered Dietitian
40	Johanna Key*	M.S. Nutrition (non-thesis)	The Childhood Obesity Epidemic: The Effects of Food Environment on Obesity in Children-A review of the Literature and Current Evidence	2021	Clinical Dietitian Columbus Regional Hospital, GA
41	Alecia Catron	M.S. Nutrition (non-thesis)	Evaluating the Effects of Plant-Based Style Diets in Outcomes Among Hemodialysis Patients	2021	Registered Dietitian, Ohio
42	Maranda Boyd	M.S. Nutrition (non-thesis)	Breastfeeding's Association with Postpartum Depression	2021	Nutritionist, Women, Infants, and Children
43	Rongzi Li*	Ph.D. Nutrition	Neuroprotective Effects of Bioactive Compounds (resveratrol and genistein) in Various Mouse Models	2021	Assistant Professor, China Agricultural University, Beijing, China
44	Brian Bowers	M.S. Nutrition (non-thesis)	Beneficial Effects of Intermittent Fasting on Cognitive Decline in Dementia	2021	Registered Dietitian, Philadelphia, PA
45	Savannah Raney	M.S. Nutrition (non-thesis)	Caloric Restriction and Mediterranean Longevity Diets: Comparing the Efficacy of the 2 Diets in Increasing Longevity	2021	Registered Dietitian, Auburn, AL
46	Maitha Aldokhayyil*	Ph.D. Kinesiology	Role of TNFRI Signaling in Racial Differences in Endothelial Function: Potential Modulatory	2020	Lecturer, Faisal University, Dammam, SA

47	Peyton Parker	M.S. Nutrition (non-thesis)	The Effects of a Meat-Restricted Diet in the Treatment of Rheumatoid Arthritis	2020	Clinical Dietitian, Birmingham, AL
48	Kara McCracken	M.S. Nutrition (non-thesis)	Evaluating the Clinical Efficacy of the ERAS Protocol: Oral Carbohydrate Loading 2-3 hours Prior to Surgery	2020	Clinical Dietitian, Paradise Valley Hospital, San Diego, CA
49	Samantha White	M.S. Nutrition (non-thesis)	A Comparison of Pharmacological versus Non-pharmacological Treatment Approaches for Older Adults with Type 2 Diabetes and Cognitive Impairment	2020	Registered Dietitian, North Carolina
50	Lisa Clarke	M.S. Nutrition (non-thesis)	Polyphenols and Flavonoids on Cognitive Function and Athletic Performance	2020	Registered Dietitian
51	Lynice Barnes	M.S. Nutrition (non-thesis)	The Effectiveness of Medical Nutrition Therapy on the Improvement of Glycemic Control in Patients with Type 2 Diabetes	2020	Dietetic Internship, Atlanta, GA
52	Allison Tolman	M.S. Nutrition (non-thesis)	Perceptions of Registered Dietitians on Performance and Value of Certified Dietary Managers	2020	Registered Dietitian Georgia
53	Megan Sieprawski	M.S. Nutrition (non-thesis)	Evaluating the Safety and Efficacy of the Ketogenic Diet with Type 2 Diabetes and Related Precursors	2020	Registered Dietitian North Carolina
54	Adelola Adeyemo	Ph.D. Kinesiology	Effects of the Hexosamine Biosynthesis Pathway in Endothelial Function	2019	Postdoctoral Fellow Translational Vascular Physiology Laboratory, University of Utah School of Medicine
55	Emily Thompson	M.S. Nutrition (non-thesis)	The effects of the Ketogenic Diet on chronic disease: Alzheimer's Disease, Obesity, and Type 2 Diabetes	2019	Clinical Dietitian
56	Sari Bronstein	M.S. Nutrition (non-thesis)	Comparing a Very Low-Carbohydrate versus Moderate-Carbohydrate Dietary Approach to Optimize Glycemic Control in Patients with Type 2 Diabetes	2019	Clinical Dietitian, Santa Rosa, CA
57	Gisele Miller	M.S. Nutrition (non-thesis)	Lipid Emulsion in Pediatric Intestinal Failure and Short Bowel Syndrome	2019	Dietetic Internship
58	Katherine Salomone	M.S. Nutrition (non-thesis)	Vitamin D deficiency may increase risk of obesity and related complications due to gut dysbiosis	2018	Registered Dietitian Rutgers Sports Nutrition Director
59	Emily Dodd	M.S. Nutrition (non-thesis)	The Ketogenic Diet and Inflammatory Disease	2018	Dietetic Internship

60	Mallori Roberts	M.S. Nutrition (non-thesis)	The Effects of DHA on Cognitive Function and Serum Lipid Levels in Elderly with Mild Cognitive Impairment	2018	Registered Dietitian Dietetic Internship Coordinator
61	Marina Sycheva*	M.S. Nutrition (thesis)	Pro-Nerve Growth Factor Induced RhoA Kinase Activation in PC12 cells	2017	Research Fellow, CRC Atrium Health, Charlotte, NC
62	Talia Tornabene	M.S. Nutrition (non-thesis)	Obesity, Insulin Resistance and Cognitive Impairment: Pathogenesis and Treatment	2017	Ph.D. student, Auburn University, AL
63	Katie Vines*	M.S. Nutrition (thesis)	TrkA receptor in streptozotocin induced diabetes rat brain	2016	Doing General Surgery fellowship at USA, Mobile, AL

c. University Reader/External Examiner

No.	*Name*	*Degree*	*Thesis Title*	*Year*	*Current Position*
64	Bhavana Sridhar	Ph.D. Biomedical Sciences, Sri Ramachandra Institute of Higher Education and Research, India	Synergistic cytotoxic effect of CDRI 08 in combination with Abiraterone targeting EGFR/P13K/Akt pathway on Androgen independent prostate cancer cell line	Spring 2024	Postdoctoral Fellow All India Institute of Medical Sciences, India
65	Danielle Lang	Ph.D. Kinesiology	Chronic effects of hatha yoga on heart rate variability and EEG spectral power in young adults with elevated mental health symptoms	Summer 2023	Postdoctoral Fellow University of Kansas Medical Center
66	Olivia Nichols	Ph.D. Human Development and Family Studies	Early Contextual Influences on Young Adult Sleep and Sleep Inequities	Summer 2023	Executive Director, Community Health Center, Wisconsin, MD
67	Cordelia Mano John	Ph.D. Biomedical Sciences, Sri Ramachandra Institute of Higher Education and Research, India	Anti-adipogenic potential of natural phytocompounds as regulators of adipocyte differentiation, antioxidant status and gene expression profile in 3T3-L1 adipocytes	Fall 2022	Postdoctoral Fellow All India Institute of Medical Sciences, India
68	Jaganmoy Choudhury	Ph.D. Reproductive Biology, All India Institute of Medical Sciences, India	Epigenetic Regulation of Epithelial to Mesenchymal Transition in Trophoblast Cells	Fall 2022	Research Scholar, Indian Institute of Chemical Biology, West Bengal, India
69	Kameron Suire	Ph.D. Kinesiology	Motivational Interviewing for Weight Management among College Students	Summer 2021	Postdoctoral Fellow University of Kansas Medical Center, Kansas

70	Ashley Peart	Ph.D. Kinesiology	Examining the Physiological Effects of a Sprint Interval and Resistance Training Intervention on Sedentary Women with Metabolic Syndrome Risk Factors	Fall 2019	Lecturer, Biological Sciences, Auburn University

2. Graduate Students Currently Serving

a. Major Professor

No.	*Name*	*Degree Expected (Department)*	*Tentative Graduation Date*
1	Adebowale Samuel Oyernide*	Ph.D. Nutrition	Fall 2025
2	Erika Richter*	Ph.D. Nutrition	Spring 2026
3	Ashley Williams*	Ph.D. Nutrition	Spring 2027

b. Committee Member

No.	*Name*	*Degree Expected (Department)*	*Tentative Graduation Date*
4	Hassan Jafari*	Ph.D. Nutrition	Summer 2024
5	Rita Fiagbor	Ph.D. Nutrition	Fall 2024
6	Kerry Casey	M.S. Nutrition (non-thesis)	Fall 2024

c. University Reader

No.	*Name*	*Degree Expected (Department)*	*Tentative Graduation Date*
7	Yadav Sangeeta Muthyalaiah	Ph.D. Biomedical Sciences Sri Ramachandra Institute of Higher Education and Research, India	Spring 2025

3. Supervision of Postdoctoral Fellow

No.	*Name*	*Year*	*Current Position*
1	Vaithinathan Selvaraju*	June 2018 – October 2022	Senior Scientist, Labcorp, Madison, WI
2	Chandra M.K. Venkatapoorna*	October 2018 – May 2019	R&D Scientist, BioGx, Birmingham, AL

4. Undergraduate Researchers Mentored/Currently Mentoring

No.	*Name*	*Year*	*Current Position*
1	Mary Sheringham	Fall 2024-present	Sophomore, Biology
2	Mallory Gibson	Summer 2023-Spring 2024	Medical school, Tennessee Medical school
3	Jack'Quoia Baulding	Summer 2023-present	Senior, Biomedical Science, (Pre-Medicine)
4	Jeremy Carson	Spring 2023-Spring 2024	Dental school, UAB
5	Margaret Crim	Fall 2021	Senior, Nutrition Science (Pre-dental)
6	Cassie Ambrose	Fall 2021	Senior, Microbiology (Pre-Physician's Assistant)
7	Sydney Burnett	Fall 2021	Senior, Microbiology (Pre-Physician's Assistant)
8	Caleb Killingsworth	Summer 2021	Senior, Microbiology (Pre-Med)
9	Anna Fouty*	Spring 2019 – Spring 2021	Medical School, University of South Alabama
10	Alana Blocker	Spring 2019 – Spring 2020	Senior, Nutrition Sciences
11	Taylor Koenigs*	Spring 2018 – Spring 2019	Public Health Nutrition, University of Tennessee, Knoxville
12	Moni Fadamiro*	Spring 2019 – Summer 2019	Unknown
13	Emily Peyton Parra*	Fall 2017 – Spring 2019	Medical School, University of South Alabama
14	Beatriz Carmona	Fall 2017 – Spring 2018	Doctoral student, Cornell University
15	Isabella A. Lopez	Fall 2017 – Spring 2018	Senior, Biomedical Sciences
16	Jake Sustarich*	Fall 2013 – Spring 2017	Mechanical Engineering Graduate Student, Auburn University
17	Sanmeet Suchdeva	Spring 2016 – Spring 2017	Unknown
18	Joshua Baker	Fall 2015 – Spring 2016	Student at VCOM, Auburn
19	Maryam Qayum	Fall 2013 – Spring 2015	Adjunct faculty, AUM
20	Troi Batman	Fall 2013 – Spring 2014	Unknown

5. Graduate and Undergraduate students Fellowship/Awards:

1. 2023 Three Minute Thesis (3MT) Finals Competition, Auburn University: **People's Choice** was awarded to Adebowale Oyernide, Graduate Research Student. **Role: Major Professor and Dissertation Supervisor**. Award: $250. https://graduate.auburn.edu/current-students/three-minute-thesis-competition/2023-3mt-winners/
2. 2022 Auburn Research Student Symposium: **First place in oral presentation category—University-Wide Graduate Student Winners** in Human Sciences, Social Sciences, Creative Arts, Nursing and Humanities was awarded to Priyadarshini Patel. **Role: Major Professor and**

Dissertation Supervisor. Award: $500. Her research was spotlighted on the Auburn University website. https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2022Spot_PPatel

3. The Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics: Awarded to Margaret Crim, Undergraduate Research Student. **Role: Mentor.** Total Award: $2,000 (Fall 2021 to Spring 2022).

4. 2021 Auburn Research Student Symposium: **Second place in oral presentation category—University-Wide Graduate Student Winners** in Human Sciences, Social Sciences, Creative Arts, Nursing and Humanities was awarded to Priscilla Ayine. Role: Major Professor and Dissertation Supervisor. Award: $250.

5. Center for Clinical and Translational Science (CCTS) Predoctoral Clinical/Translational Research Program (TL1) from NIH National Research Service Award (NRSA): Awarded to Brittannie Chester, Graduate Research Student. **Role: Major Professor and dissertation supervisor.** Total Award: $47,126 (Stipend- $25,320, project Funds- $2,000, Travel support- $1,500, Tuition support- $16,000, Indirect cost- $2,305) (July 1, 2020- June 30, 2021). https://www.uab.edu/ccts/training-academy/research-fellowships/tl1/tl1-predoctoral-trainees

6. Undergraduate Research Fellowship: Awarded to Anna Fouty, Undergraduate Research Student. **Role: Mentor**. Total Award: $1,500 (Fellowship: $1,000, Project Funds $500) (Fall 2020). http://our.auburn.edu/meet-the-2020-2021-undergraduate-research-fellows/#humansci

7. The Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics: Awarded to Anna Fouty, Undergraduate Research Student. **Role: Mentor**. Total Award: $1,500 (Fall 2020 to Spring 2021).

8. 2020 Auburn Research Student Symposium: **Second place in poster presentation category—University-Wide Graduate Student Winners** in Human Sciences, Social Sciences, Creative Arts, Nursing and Humanities was awarded to Priscilla Ayine. **Role: Major Professor and Dissertation Supervisor**. Award: $250. Her research was spotlighted on the Auburn University website. https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2020Spot_PAyine

9. Conference of Southern Graduate Schools Regional Competition Three Minute Thesis (3MT) Regional Competition Finalist: People's Choice (Group 2) was awarded to Brittannie Chester, Graduate Research Student. **Role: Major Professor and Dissertation Supervisor** (March 2020).

10. 2019 Three Minute Thesis (3MT) Finals Competition, Auburn University: **First place** was awarded to Brittannie Chester, Graduate Research Student. **Role: Major Professor and Dissertation Supervisor**. Award: $500. http://ocm.auburn.edu/newsroom/campus_notices/2019/12/02150-3mtwinner.php

11. Undergraduate Research Fellowship: Awarded to Anna Fouty, Undergraduate Research Student. **Role: Mentor**. Award: $3,000 (Fellowship: $2,250, Project Funds $750) (Fall 2019 –Spring 2020). http://our.auburn.edu/past-fellows/

12. The Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics: Awarded to Alana Blocker, undergraduate research student. **Role: Mentor**. Total Award: $2,500 (Fall 2019 to Spring 2020).

13. CHS Graduate symposium: Second place was awarded to Brittannie Chester, Graduate Student. **Role: Major Professor and Dissertation Supervisor**. Award: $150 (Spring 2018).

14. Undergraduate Research Fellowship: Awarded to Emily Parra, Undergraduate Research Student. **Role: Mentor**. Total Award: $6,000 (Fellowship: $4,500, Project Funds $1,500) (Summer 2018 – Spring 2019). http://our.auburn.edu/past-fellows/

15. The Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics: Awarded to Taylor Koenigs, Undergraduate Research Student. **Role: Mentor**. Total Award: $1,500 (Fall 2018 to Spring 2019).

16. AUM Undergraduate Research Symposium: **First place and best research paper** was awarded to Jake Sustarich. **Role: Honors Research Thesis Mentor**. Award: $200 (April 2017). http://sciences.aum.edu/student-resources/undergraduate-research-and-scholarship/symposium-archives

17. AUM Undergraduate Research Symposium: **First place for oral presentation** was awarded to Jake Sustarich and Sanmeet Suchdeva. **Role: Mentor**. Award: $100 (April 2016).

18. AUM Undergraduate Research Symposium: **Second place for oral presentation** was awarded to Joshua Baker and Jake Sustarich. **Role: Mentor**. Award: $75 (April 2015).

RESEARCH CREATIVE WORK

Book Chapters

1. Patel P., **Geetha T**$^{+}$ (2024)
   Personalized Epigenetics: Analysis and Interpretation of DNA Methylation Variation.
   In: Tollefsbol T.O. (ed) Personalized Epigenetics—Second Edition. Elsevier Publisher.
   Paperback ISBN: 9780443238024, eBook ISBN: 9780443238031

2. Selvaraju V., Babu J.R., **Geetha** T^{+} (2022)
   Salivary C-Reactive Protein as a Biomarker and Implications for Diabetes.
   In: Patel V.B., Preedy V.R. (eds) Biomarkers in Diabetes. Biomarkers in Disease: Methods, Discoveries and Applications. Springer International Publishing.
   https://doi.org/10.1007/978-3-030-81303-1_17-1

Publications in Peer Reviewed Journals:

The publications are listed in reverse chronological order. The postdoctoral research fellow's contribution is marked with a superscript P (^{P}), graduate research student with a superscript G (^{G}), undergraduate research student with a superscript U (^{U}).
The publications are in the name of Thangiah Geetha (Geetha T) at Pubmed Link.
Number of journal citations was obtained from Google Scholar
5Y*IF= Five-year Impact factor; TC = Total citations;* $^{+}$ Corresponding author.

1. Richter E,^{G} Patel P,^{G} Babu JR, Wang X, **Geetha T**$^{+}$. The importance of sleep in overcoming childhood obesity and reshaping epigenetics. *Biomedicines* 2024; 12(6): 1334. doi: 10.3390/biomedicines12061334. [IF – 3.9]

2. Jun L,^{G} Tao YX, **Geetha T**, Babu JR. Mitochondrial adaptation in skeletal muscle: Impact of obesity, caloric restriction, and dietary compounds. *Curr Nutr Rep.* 2024 13(3):500-515. doi: 10.1007/s13668-024-00555-7. [IF – 4.6].

3. Jun L,[G] Knight E,[G] Broderick TL, Al-Nakkash L, Tobin B, **Geetha T**, Babu JR. Moderate-intensity exercise enhances mitochondrial biogenesis markers in the skeletal muscle of a mouse model affected by diet-induced obesity. *Nutrients* 2024; 16(12): 1836. doi: 10.3390/nu16121836. [TC-1; IF – 4.8].

4. Shawl M,[G] **Geetha T**, Burnett D, Babu JR. Omega-3 supplementation and its effects on osteoarthritis. *Nutrients* 2024; 16(11): 1650. doi: 10.3390/nu16111650. [TC-2; IF – 4.8]

5. Jun L,[G] Ding X,[G] Robinson M,[G] Jafari H,[G] Knight E,[G] **Geetha T**, Green MW, Babu JR. Targeting molecular mechanisms of obesity and type 2 diabetes mellitus-induced skeletal muscle atrophy with nerve growth factor. *Int J Mol Sci.* 2024; 25(8):4307. doi: 10.3390/ijms25084307. [IF – 5.6]

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19. **Geetha T**, Wooten MW. Sequestosome/p62 serves as an adaptor for TRAF6-mediated ubiquitination of the NGF receptor TrkA. *The FASEB Journal* 2004; 18: C37. [IF-5.834]

20. **Geetha T**, Wooten MW. Association of ubiquitin-binding protein p62/ZIP with the nerve growth factor receptor TrkA. *The FASEB Journal* 2002; 16: A545. [IF-5.834]

Presentation in Professional Meetings

a. *Papers Presented at International / National meetings*

1. Oyerinde AS,[G] Boersma MD, Babu JR, **Geetha T** (2024). The Influence of Oxidative Stress on Volatile Organic Compounds Generation in Adipocytes. "*World Congress on Pediatrics & neonatology*" 2024 Annual meeting, Barcelona, Spain (Hybrid Event), September 19-20, 2024. (oral presentation)

2. Patel P,[G] Selvaraju V,[P] Wang X, Babu JR, **Geetha T** (2022). Disparities in epigenetic modifications in NRF1 and FTO genes in children. "*American Society of Human Genetics*" 2022 Annual meeting, October 25-29, 2022. Abstract # PB2394.

3. Phillips M,[G] Selvaraju V,[P] Fouty A,[U] Sandey M, Babu JR, **Geetha T** (2020). Gender differences in the copy number of 11q11 gene in European American obese children. "*American Diabetes Association*" 80th Scientific Sessions, Virtual Meeting, June 12-16, 2020. Abstract # 1256-P.

4. Venkatapoorna C,[P] Ayine P,[G] Parra P,[U] Koenigs T,[U] Sandey M, Babu JR, **Geetha T** (2019). Low AMY1 gene copy number is associated with increased childhood obesity in Alabama. "*American Diabetes Association*" 79th Scientific Sessions, San Francisco, CA, USA, June 7-11, 2019. Abstract # 5064-P.

5. Selvaraju V,[P] Ayine P,[G] Parra P,[U] Brown M, Babu JR, and **Geetha T** (2019). Endothelial dysfunction, inflammation, and oxidative stress urinary biomarkers in obese children from Alabama. "*American Diabetes Association*" 79th Scientific Sessions, San Francisco, CA, USA, June 7-11, 2019. Abstract # 6137-P.

6. Ayine P,[G] Parra EP,[U] Babu JR, **Geetha T** (2018). Influence of race, ethnicity, and behavioral factors on Childhood Obesity. "*American Diabetes Association*" 78th Scientific Sessions, Orlando, FL, USA, June 22-26, 2018. Abstract # 2083-P.

7. Chester B,[G] Stanley WG, **Geetha T** (2018). The efficacy of registered dietitian interventions in type 2 diabetes management in a family practice clinic in North Alabama. "*American Diabetes Association*" 78th Scientific Sessions, Orlando, FL, USA, June 22-26, 2018. Abstract # 705-P.

8. Sustarich J,[U] Suchdeva S,[U] Sycheva M, Babu JR, **Geetha T** (2016). Increased pro-nerve growth factor induces RhoA activation in PC12 cells similar to Alzheimer's disease. *"Society for Neuroscience"*, San Diego, CA, USA, November 12-16, 2016. Abstract No. 514.06/Z2.

9. **Geetha T**, Zheng C,[G] Kothari V,[G] Carter A, Vines K, Sustarich J,[U] Babu JR (2016). The RING finger domain of TRAF6 interacts with Akt for its ubiquitination and activation of insulin stimulation. *"American Diabetes Association"* 76th Scientific Sessions, New Orleans, LA, USA, June 10-14, 2016. Abstract No. 1745-P.

10. Kothari V,[G] Tornabene T,[G] Luo Y,[G] Greene M, **Geetha T,** Babu JR (2016). High fat western diet-induced brain insulin resistance and cognitive impairment. *"American Diabetes Association"* 76th Scientific Sessions, New Orleans, LA, USA, June 10-14, 2016. Abstract No. 1936-P. (*This poster was selected to be featured on a guided tour in the Poster* Hall).

11. **Geetha T**, Zheng C,[G] Baker J,[U] Gearing M, Babu JR (2015). Polyubiquitination of Akt is impaired in Alzheimer's disease. *"Alzheimer's Association International Conference",* Washington, D.C, USA, July 18-23, 2015. Abstract No. P4-211.

12. Rege SD,[G] Bottcher M, **Geetha T**, Broderick T, Babu JR (2014). Neuroprotective effects of resveratrol against β-amyloid induced oxidative damage and memory loss in rat hippocampal (H19-7) cells. *"ASN Scientific Sessions and Annual Meetings at Experimental Biology"*, San Diego, CA, USA, April 27, 2014. Abstract No. C403.

13. Zheng C,[G] Mathews S,[U] **Geetha T**, Babu JR (2014). Polyubiquitination is essential for Akt activation in nerve growth factor signaling. *"Society for Neuroscience"*, Washington, DC, USA, November 11, 2014. Abstract No. 121.07/A18.

14. Rege SD,[G] **Geetha T**, Broderick T, Babu JR (2014). Resveratrol Protects Proteins Associated with Memory Loss in Obese Diabetic Mice. *"American Diabetes Association"* 74th Scientific Sessions, San Francisco, CA, USA, June 13-17, 2014. Abstract No. 2014-A-4820.

15. Zheng C,[G] **Geetha T**, Gearing M, Babu JR (2013). Amyloid β induced impairment of TrkA signaling in PC12 cells equivalent to Alzheimer's disease. *"23rd Neuropharmacology Conference"*, San Diego, CA, USA, November 7-8, 2013.

16. **Geetha T**, Zheng C,[G] Diaz-Meco, M, Moscat J, Babu JR (2013). TRAF6/p62 complex prevents amyloid β induced neuronal death. *"23rd Neuropharmacology Conference"*, San Diego, CA, USA, November 7-8, 2013.

17. Zheng C,[G] **Geetha T**, Babu JR (2012). TRAF6 and p62 inhibit amyloid β-induced neuronal death through p75 neurotrophin receptor. *"Society for Neuroscience"*, New Orleans, LA, USA, October 13-17, 2012. Abstract No. 66.27/U4.

18. **Geetha T**, Zheng C,[G] Broderick T, Babu JR (2012). Sequestosome 1/p62, a novel IRS-1 interacting protein, regulates insulin stimulated glucose uptake. *"American Diabetes Association"*, 72nd Scientific Sessions, Philadelphia, PA, USA, June 8-12, 2012. Abstract No. 2012-A-3475. (*This poster was selected to be featured on a guided tour in the Poster* Hall).

19. Babu JR, Diarra A, Vishwaprakash N,[P] **Geetha T** (2011). Ubiquitination of p75 neurotrophin receptor in Alzheimer's disease. *"Society for Neuroscience"* Washington, DC, USA, November 12-16, 2011. Abstract No. 666.12/N7.

20. Babu JR, Diarra A, **Geetha T** (2011). Sequestosome 1/p62, a New Interacting Adapter Protein with IRS-1 in Insulin Signaling. *"American Diabetes Association"*, 71st Scientific Sessions, San Diego, CA, USA, June 24-28, 2011. Abstract No. 0022-OR. (*This abstract was selected for oral presentation*).

21. **Geetha T,** Langlais P, Lou M, Zingsheim M, Mandarino LJ, Yi Z (2010). Protein phosphatase 1 regulatory subunit 12A (PPP1R12A), a new family member in the IRS-1 signaling complex. *"American Diabetes Association"*, 70th Scientific Sessions, Orlando, Florida, USA, 25-29 June 2010. Abstract No. 585ADA10D1. (*This abstract was one of the 100 posters selected to be showcased in the Presidents Poster Session and Reception*)

22. **Geetha T,** Hojlund K, Zingsheim M, Christ-Roberts C, Mapes R, Lou M, Mattern M, Meyer C, Yi Z (2010). Novel tyrosine phosphorylation sites in skeletal muscle identified by HPLC-ESI-MS/MS. *"American Diabetes Association",* 70th Scientific Sessions, Orlando, Florida, USA, 25-29 June 2010. Abstract No. 1377ADA10D1. (S*elected to be featured on a guided tour in the Poster Hall*)

23. **Geetha T,** Wooten MW (2006). Trafficking and sorting of the nerve growth factor receptor TrkA. *"Society for Neuroscience"*, 36th Annual Meeting, Atlanta, GA, USA, 14-18 October 2006. Abstract No. 622.6.

24. Seibenhener ML, **Geetha T,** Peng J, Wooten MW (2006). Disruption of the p62 gene leads to accumulation of K63 polyubiquitin and cognitive deficits. *"Society for Neuroscience"*, 36th Annual Meeting, Atlanta, GA, USA, 14-18 October 2006. Abstract No. 754.2.

25. Babu JR, Seibenhener ML, **Geetha T**, Cox N, Parameshwaran K, Suppramaniam V, Wooten MW (2006). Alzheimer-like characteristics associated with p62 knockout mice. *"Society for Neuroscience"*, Atlanta, GA, USA, October 14-18, 2006. Abstract No. 754.3.

26. Wooten MW, Babu JR, Seibenhener L, **Geetha T**, Cox N, Suppramaniam V, Diaz-Meco MT, Moscat J (2006). Accumulation of tau and amyloid beta in p62 deficient mice. *"10th International Conference on Alzheimer's Disease and Related Disorders"*, Madrid, Spain, July 15-20, 2006.

27. Wooten MW, **Geetha T** (2006). The role of ubiquitin in neurotrophin receptor signalling and sorting. *"Bioscience"*, Glasgow, UK, 23-27 July 2006, Abstract No. 0024.

28. Wooten MW, **Geetha T**, Jiang J (2005). Lysine 63 polyubiquitination of the nerve growth factor receptor TrkA directs internalization. *"Society for Neuroscience"*, 35th Annual Meeting, Washington, DC, USA, 12-16 November 2005, Abstract No. 148.13

29. **Geetha T**, Seibenhener ML, Babu JR, Wooten MW (2005). Interaction of TRAF6 with the p62 scaffold drives neurotrophin activation of NF-κB. *"Society for Neuroscience"*, Washington, DC, USA, November 12-16, 2005. Abstract No. 148.24.

30. Kenchappa RS, **Geetha T**, Teng HK, Hempstead BL, Wooten MW, Carter BD (2005). Ligand dependent cleavage of the p75 neurotrophin receptor is necessary for NRIF nuclear translocation and apoptosis in sympathetic neurons. *"Society for Neuroscience"*, 35th Annual Meeting, Washington, DC, USA, 12-16 November 2005, Abstract No. 252.6.

31. Kenchappa RS, **Geetha T**, Hempstead BL, Wooten MW, Carter BD (2005). Ligand dependent cleavage of the p75 neurotrophin receptor is necessary for NRIF nuclear translocation and apoptosis in sympathetic neurons. *"Neurotrophic Factors"* Gordon Research Conferences, Salve Regina University, Newport, RI, USA, 19-24 June 2005.

32. Seibenhener ML, Babu JR, **Geetha T**, Wooten MW (2004). Protein misfolding in Alzheimer's and other age-related neurodegenerative diseases. *"5th Neurobiology of Aging Conference"* San Diego, CA, USA, October 21-22, 2004. Abstract No. P18.

33. **Geetha T**, Wooten MW (2004). Sequestosome/p62 serves as an adaptor for TRAF6-mediated ubiquitination of the nerve growth factor receptor TrkA. *"The American Society for Biochemistry and Molecular Biology Annual Meeting"*, Boston, Massachusetts, USA, 12-16 June 2004, Abstract No. 441.

34. **Geetha T**, Wooten MW (2003). p62 serves as an adaptor for TRAF6-mediated ubiquitination of the nerve growth factor receptor TrkA. *"American Society for Cell Biology"*, 43rd Annual Meeting, San Francisco, California, USA, 13-17 December 2003, Abstract No. 66.

35. **Geetha T**, Wooten MW (2003). The atypical protein kinase C-interacting protein p62 serves as an adaptor to ubiquitinate the nerve growth factor receptor TrkA by TRAF6. *"Society for Neuroscience"*, 33rd Annual Meeting, New Orleans, Louisiana, USA, 8-12 November 2003, Abstract No. 786.3.

36. **Geetha T**, Wooten MW (2002). Association and colocalization of the atypical protein kinase C-interacting protein p62/ZIP with nerve growth factor receptor TrkA to the endocytic pathway. *"Society for Neuroscience"*, 32nd Annual Meeting, Orlando, Florida, USA, 2-7 November 2002, Abstract No. 630.4.

37. **Geetha T**, Wooten MW (2002). Association of ubiquitin-binding protein p62/ZIP with the nerve growth factor receptor TrkA. *"The American Society for Biochemistry and Molecular Biology Annual Meeting"*, New Orleans, USA, 20-24 April 2002, Abstract No. 852.

b. Presented at State and Local professional meetings

38. Adebowale OS,[G] Boersma M, Babu JR, **Geetha T** (2024). The impact of oxidative stress on the volatile organic compounds in adipocytes. *"2024 Auburn Research Student Symposium",* Auburn University, Auburn, AL, USA, March 26, 2024 (oral presentation).

39. Knight E,[G] Jun L,[G] **Geetha T**, Babu JR (2024). Exploring the impact of diet and exercise training on the murine gastrointestinal microbiota. *"2024 Auburn Research Student Symposium",* Auburn University, Auburn, AL, USA, March 26, 2024 (oral presentation).

40. Jafari H, [G] Jun L,[G] Knight E, [G] **Geetha T**, Babu JR (2024). Role of nerve growth factor in diabetic cardiomyopathy. *"2024 Auburn Research Student Symposium",* Auburn University, Auburn, AL, USA, March 26, 2024 (poster presentation).

41. Jun L,[G] Knight E,[G] Jafari A, [G] **Geetha T**, Babu JR (2024). Exercise protects from fiber type shift in obese muscles by enhancing mitochondrial biogenesis and dynamics. *"2024 Auburn Research Student Symposium",* Auburn University, Auburn, AL, USA, March 26, 2024 (oral presentation).

42. Bourne E, [G] Burnett D, White D, **Geetha T**, Wang CH, Babu JR (2024). Beliefs and intentions of U.S. Registered Dietitians/Registered Dietitian Nutritionists toward providing breastfeeding support to prenatal/postpartum mothers. *"2024 Auburn Research Student Symposium",* Auburn University, Auburn, AL, USA, March 26, 2024 (oral presentation).

37. Adebowale OS,[G] Boersma M, Babu JR, **Geetha T** (2024). The impact of oxidative stress on the volatile organic compounds in adipocytes. *"15th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, March 15, 2024. Abstract No. O09 (oral presentation).

38. Jun L,[G] Knight E, [G] Jafari H, [G] Broderick T, **Geetha T**, Babu JR (2024). Exercise protects slow, oxidative fibers in obese skeletal muscles by promoting mitochondrial biogenesis and dynamics machinery. *"15th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, March 15, 2024. Abstract No. O04 (oral presentation and was awarded third place).

39. Knight E,[G] Jun L,[G] Broderick T, **Geetha T**, Babu JR (2024). Assessing the influence of diet and exercise training on murine gastrointestinal microbiota. *"15th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, March 15, 2024. Abstract No. O07 (oral presentation).

40. Bourne E, [G] Burnett D, White D, **Geetha T**, Wang CH, Babu JR (2024). Beliefs and intentions of U.S. Registered Dietitians/Registered Dietitian Nutritionists toward providing breastfeeding support to prenatal/postpartum mothers. *"15th Annual Boshell Diabetes and Metabolic Diseases*

Conference", Auburn University, Auburn, AL, USA, March 15, 2024. Abstract No. P09 (poster presentation)

41. Jafari H, [G] Selvaraju V, [P] Jun L,[G] Knight E, [G] **Geetha T**, Babu JR (2024). Role of nerve growth factor in diabetic cardiomyopathy. *"15th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, March 15, 2024. Abstract No. P17 (poster presentation)

42. Oyerinde A,[G] **Geetha T** (2023). Volatile organic compounds: a new potential marker for obesity. *"2023 Three Minute Thesis (3MT) Finals Competition"* November 21, 2019. (Awarded People's Choice winner)

43. Patel P,[G] Selvaraju V,[P] Wang X, Babu JR, **Geetha T** (2023). Racial disparities in methylation of NRF1, FTO, and LEPR genes in childhood obesity. "*Cell and Molecular Biology Symposium*", Auburn University, Auburn, AL, USA, October 13, 2023 (oral presentation).

44. Adebowale OS,[G] Boersma M, **Geetha T** (2023). Effect of H_2O_2 induced oxidative stress on volatile organic compounds in differentiated 3T3-L1 cells. "*Cell and Molecular Biology Symposium*", Auburn University, Auburn, AL, USA, October 13, 2023 (oral presentation).

45. Patel P,[G] Selvaraju V,[P] Wang X, Babu JR, **Geetha T** (2023). Epigenome-wide identification of novel methylated regions in childhood obesity. *"14th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. O03 (oral presentation).

46. Adebowale OS,[G] Selvaraju V,[P] **Geetha T** (2023). Oxidative stress in 3T3-L1 differentiated adipocytes. *"14th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. P36 (poster presentation).

47. Jun L,[G] Ding X,[G] Robinson M,[G] Jafari H,[G] **Geetha T**, Greene M, Babu JR (2023). Molecular mechanisms of muscle atrophy in obese and T2DM mouse model. *"14th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. O09 (Oral presentation and was awarded first place)

48. Robinson M,[G] Jun L,[G] Robinson N, Morrow C, **Geetha T**, Greene M, Babu JR. (2023). "I've Gut a Feeling": The effect of nerve growth factor on the gut microbiome in an obese, diabetic, and Alzheimer's disease mouse model. *"14th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. P42 (poster presentation).

49. Patel P,[G] Selvaraju V,[P] Wang X, Babu JR, **Geetha T** (2023). Genome-wide DNA methylation analyses identifies novel differentially methylated regions in childhood obesity. "*2023 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 28, 2023 (oral presentation).

50. Adebowale OS,[G] Selvaraju V,[P] **Geetha T** (2023). Induction of oxidative stress in 3T3-L1 differentiated adipocytes. "*2023 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 28, 2023 (oral presentation).

51. Patel P,[G] **Geetha T** (2023). Genome-wide DNA methylation analyses identifies novel differentially methylated regions in childhood obesity. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 17, 2023 (oral presentation).

52. Adebowale OS,[G] **Geetha T** (2023). Induction of oxidative stress in 3T3-L1 differentiated adipocytes. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 17, 2023 (oral presentation).

53. Patel P,[G] Selvaraju V,[P] Wang X, Babu JR, **Geetha T** (2022). Racial variability in methylation of NRF1 and FTO gene in childhood obesity. "*2022 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 28, 2022. (Awarded first place in University-Wide Graduate Students oral presentation)

54. Chester B,[G] Selvaraju V,[P] Cassie A, Sydney B, Martin K, **Geetha T** (2022). Hemoglobin A1c Level and the Efficacy of a Diabetes Self-Management Education and Support Coaching Structure for the Ongoing Management of Type 2 Diabetes. "*2022 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 28, 2022.

55. Priyadarshni P,[G] **Geetha T** (2022). Disparities in Methylation of *NRF1* and *FTO* Gene in Childhood Obesity. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 21, 2022.

56. Adebowale OS,[G] **Geetha T** (2022). Volatile Organic Compounds: A New Potential Marker for Obesity. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 21, 2022.

57. Patel P,[G] Selvaraju V,[P] Babu JR, **Geetha T** (2021). Epigenetic changes in obesity-related genes amongst races in children. "*Auburn University Health Disparities Research Initiative – Virtual Symposium"*, Auburn University, Auburn, AL, USA, Nov 5, 2021 (oral presentation).

58. Chester B,[G] Selvaraju V,[P] Martin K, **Geetha T** (2021). Evaluating the relationship between obesity and the efficacy of a Diabetes Self-Management Education and Support coaching structure for the ongoing management of type 2 diabetes in North Alabama. *"13th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. O04 (oral presentation).

59. Ding X,[G] Selvaraju V, [P] Li R,[G] Aldhowayan A,[G] **Geetha T,** Greene MW, Babu JR (2021). Role of nerve growth factor in insulin resistance amelioration and cognitive performance improvement in diabetic mice brain. *"13th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. O12 (oral presentation).

60. Aldhowayan A,[G] Ding X,[G] Li R,[G] Selvaraju V,[P] Greene MW, **Geetha T,** Babu JR (2021). Nasal administration of nerve growth factor (NGF) implies cardioprotective properties and enhancing insulin sensitivity among high fat high sugar diet-fed mice. *"13th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P04.

61. Patel P,[G] Selvaraju V,[P] Babu JR, **Geetha T** (2021). Epigenetic changes in NRF1 and FTO gene through Methylight assay amongst races in children. *"13th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P20.

62. Selvaraju V,[P] Balakrishnan B, Chen J, Ayine P,[G] Yang L, Babu JR, **Geetha T** (2021). Ethnic-specific association of gut microbiome with childhood obesity. *"13th Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P32.

63. Ayine P ,[G] Selvaraju V, [P] **Geetha T** (2021). The children's eating behaviors: Relation to child weight status and maternal education. "*2021 Auburn Research Student Symposium*", Auburn University,

Auburn, AL, USA, March 29 – April 2, 2021. (Awarded second place in University-Wide Graduate Students oral presentation)

64. Li R,[G] Babu JR, **Geetha T** (2021). Beneficial effects of exercise and/or genistein treatment on high-fat, high-sugar diet-induced brain damage in C57BL/6 mice. "*2021 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 29 – April 2, 2021. (Awarded second place in University-Wide Graduate Students poster presentation)

65. Ding X,[G] Babu JR, **Geetha T** (2021). Role of nerve growth factor in insulin resistance amelioration and cognitive performance improvement in diabetic mouse brain. "*2021 Auburn Research Student Symposium*", Auburn University, Auburn, AL, USA, March 29 – April 2, 2021. (Awarded third place in University-Wide Graduate Students poster presentation)

66. Priyadarshni P,[G] **Geetha T** (2021). Epigenetics, Diet and Obesity. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 19, 2021.

67. Ayine P,[G] Selvaraju V,[P] **Geetha T** (2021). Association of Children's eating behaviors to child weight status and maternal education. "*CHS Graduate Student Research Symposium*", Auburn University, Auburn, AL, USA, March 19, 2021.

68. Selvaraju V,[P] Phillips M,[G] Fouty A,[U] Babu JR, **Geetha T** (2020). Telomere length as a biomarker for race-related health disparities. *"Health Disparities Research Initiative Virtual Symposium",* Auburn University, Auburn, AL, USA, July 29, 2020.

69. Ayine P,[G] Selvaraju V,[P] **Geetha T** (2020). Parental feeding practices and perceptions of child weight in relation to maternal education and childhood obesity. *"Virtual Symposium"*, Auburn University, Auburn, AL, USA, April 2020. (Awarded second place in University-Wide Graduate Students)

70. Fouty A,[U] Blocker A,[U] Phillips M,[G] Selvaraju V,[P] Babu JR, Sandey M, **Geetha T** (2020). The relationship between the copy number of *11q11* gene and childhood obesity. *"Virtual Symposium"*, Auburn University, Auburn, AL, USA, April 2020.

71. Selvaraju V,[P] Babu JR, **Geetha T** (2020). Association of Salivary neurotrophins and insulin in childhood obesity. *"Center for Neuroscience Initiative Inaugural Retreat",* Auburn University, Auburn, AL, USA, February 28, 2020. Abstract No. 57.

72. Ayine P,[G] Venkatapoorna C,[P] Parra EP,[U] Koenigs T,[U] Selvaraju V,[P] Babu JR, **Geetha T** (2019). Socioeconomic and behavioral determinants of childhood obesity. Exploring the relationship between sleep, dinner, and television timing behavior with BMI in children. *"12th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P29.

73. Venkatapoorna C, [P] Ayine P,[G] Parra EP,[U] Koenigs T,[U] Sandey M, Babu JR, **Geetha T** (2019). Low AMY1 gene copy number is associated with childhood obesity. *"12th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. O32.

74. Selvaraju V,[P] Ayine P,[G] Parra EP,[U] Brown M, Babu JR, **Geetha T** (2019). Association of inflammation, oxidative stress and endothelial dysfunction biomarkers in obese elementary school children. *"12th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P44.

75. Zhang Y,[G] Rasool S,[P] Woodie L, Greene MW, Miller ME, **Geetha T**, Babu JR (2019). Restricted-time feeding ameliorates high fat sugar diet induced skeletal muscle degeneration. "*12th Annual Boshell Diabetes and Metabolic Diseases conference",* Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P24.

76. Li R,[G] Rasool S,[P] Broderick T, **Geetha T**, Babu JR (2019). Neuroprotective roles of resveratrol and exercise training in Alzheimer disease mice model. *"12th Annual Boshell Diabetes and Metabolic Diseases conference",* Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P25. (Awarded third place for poster presentation)

77. Koenigs T,[U] Venkatapoorna CMK,[P] Ayine P,[G] Parra EP,[U] Sandey M, Babu JR, **Geetha T** (2019). Reduced AMY1 gene copy number is associated with increased BMI in children, "*2019 Alabama Dietetic Association Annual Meeting*", Montgomery, AL, March 6, 2019.

78. Ayine P,[G] Venkatapoorna C,[P] Parra EP,[U] Koenigs T,[U] Selvaraju V,[P] Babu JR, **Geetha T** (2019). The association between the daily lifestyle habits with BMI in children. *"CHS Graduate Student Research Symposium"*, Auburn University, Auburn, AL, USA, April 5, 2019.

79. Parra EP,[U] Ayine P, [G] Venkatapoorna CMK,[P] Koenigs T,[U] Selvaraju V,[P] Babu JR, **Geetha T** (2019). The relationship between sleep behaviour with obesity, television exposure and dinner time in children. *"This is Research: Student symposium"*, Auburn University, Auburn, AL, USA, April 9, 2019.

80. Koenigs T,[U] Venkatapoorna CMK,[P] Ayine P,[G] Parra EP,[U] Sandey M, Babu JR, **Geetha T** (2019). Reduced AMY1 gene copy number is associated with increased BMI in children. *"This is Research: Student symposium"*, Auburn University, Auburn, AL, USA, April 9, 2019.

81. Chester B,[G] **Geetha T** (2019). Diabetes Utopia for a Dietitian *"2019 Three Minute Thesis (3MT) Finals Competition"* November 21, 2019. (Awarded first place and Brittannie Chester represented Auburn University at Regional level in March 2020)

82. **Geetha T**, Venkatapoorna C,[P] Ayine P,[G] Parra EP,[U] Koenigs T,[U] Babu JR (2018). Salivary amylase and childhood obesity. "*2018 AAES Faculty Summit*" Auburn University, Auburn, AL, USA, Dec 10, 2018.

83. Venkatapoorna C,[P] Ayine P,[G] Parra EP,[U] Koenigs T,[U] Babu JR, **Geetha T** (2018). Association of salivary amylase (AMY1) gene copy number with obesity in Alabama elementary school children. "*2018 Faculty Research Symposium*" Auburn University, Auburn, AL, USA, Oct 23, 2018.

84. **Geetha T** (2018). Racial and ethnic disparities in childhood obesity. "*Human Sciences Research Collaborative*" Center for Health Ecology and Equity Research (CHEER), Auburn University, Auburn, AL, USA, Oct 19, 2018 (Oral Presentation).

85. Venkatapoorna C,[P] Babu JR, **Geetha T** (2018). Relationship between AMY1 gene copy number and body mass index in Alabama school children. "*Nutrition Symposium 2018*", Samford University, Birmingham, AL, USA Sept 21, 2018.

86. Zhang Y,[G] Rasool S, [P] Li R, [G] Woodie L, [G] Greene M, Glabe C, **Geetha T**, Miller ME, Babu JR (2018). Impact of high fat diet with sugar on skeletal muscle in mice. "*Nutrition Symposium 2018*", Samford University, Birmingham, AL, USA Sept 21, 2018.

87. Li R, [G] Rasool S, [P] Zhang Y,[G] Glabe C, **Geetha T**, Anderson M, Broderick T, Babu JR (2018). Neuroprotective roles of resveratrol and / or exercise training in the 3XTg-AD mice model. "*Nutrition Symposium 2018*", Samford University, Birmingham, AL, USA Sept 21, 2018.

88. Chester B,[G] **Geetha T** (2018). Self-management education for adults with type 2 diabetes mellitus improves the clinical outcomes of patients. "*College of Human Sciences Graduate Student Symposium*", Auburn University, Auburn, AL, USA, March 21, 2018. (Oral Presentation and was awarded second place).

89. Ayine P,[G] Parra EP,[U] Carmona B,[U] Lopez I,[U] Babu JR, **Geetha T** (2018). Socioeconomic and behavioral determinants of childhood obesity. "*College of Human Sciences Graduate Student Symposium*", Auburn University, Auburn, AL, USA, March 21, 2018.

90. Sustarich J,[U] **Geetha T** (2017). Overexpression of proNGF in Alzheimer's disease leads to neuronal death. *"Undergraduate Research Symposium"*, Auburn University at Montgomery, 7 April 2017. (Oral presentation and awarded First place and Best research paper award).

91. Sycheva M, Sustarich J, [U] **Geetha T**, Babu JR (2017). Pro-nerve growth factor induces activation of RhoA kinase in Alzheimer's disease. *"10th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. P29.

92. Li Y, Zhang Y, Rasool S, Luo Y, Greene M, **Geetha T**, Babu JR (2017). High Fat Sugar Diet in Mice Induces Impaired Hepatic Insulin Signaling, Activation of Inflammation and Apoptosis. *"10th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. P16. (Award second place for poster presentation)

93. Rasool S, Zhang Y, Li Y, Woodie L, Greene M, **Geetha T**, Babu JR (2017). High-fat Diet in Mice Induced Skeletal Muscle Degeneration. *"10th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. O14.

94. **Geetha T**, Sycheva M, Sustarich J,[U] Suchdeva S, Zheng C, Babu JR (2017). Overexpression of proNGF in Alzheimer's disease leads to neuronal death. *"This is Research - Faculty Symposium"*, Auburn University, Auburn, AL, USA, Sep 16, 2016.

95. Babu JR, Kothari V, Luo Y, Tornabene T, Luo Y, Greene MW, O'Neill AM, **Geetha T** (2016). High fat diet induces brain insulin resistance and cognitive impairment in mice. *"This is Research - Faculty Symposium"*, Auburn University, Auburn, AL, USA, Sep 16, 2016.

96. Sustarich J,[U] Suchdeva S,[U] **Geetha T** (2016). Enhanced expression of $p75^{NTR}$ induced by proNGF leads to neuronal apoptosis. *"This is Research - Student Symposium"*, Auburn University, Auburn, AL, USA, April 13, 2016.

97. Sustarich J,[U] Suchdeva S, [U] **Geetha T** (2016). Accumulation of proNGF leads to neurodegeneration in Alzheimer's disease. *"Undergraduate Research Symposium"*, Auburn University at Montgomery, 1 April 2016. (Oral presentation and awarded First place)

98. Vines K, Zheng C, Rege S, Matthews S, Bates J, Sustarich J,[U] **Geetha T**, Broderick TL, Babu JR (2016). TrkA and insulin receptor in streptozotocin induced diabetes rat brain. "*9th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. 007. (Oral presentation)

99. Zheng C, **Geetha T**, Kothari V, Carter A, Sustarich J,[U] Babu JR (2016). TRAF6 interact with Akt for its ubiquitination and activation on insulin stimulation. *"9th Annual Boshell Diabetes and Metabolic Diseases conference",* Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. P25.

100. Kothari V, Tornabene T, Luo Y, O'Neill AM, Greene MW, Mathews S, **Geetha T,** Babu JR (2016). High fat and sugar in mice brain. *"9th Annual Boshell Diabetes and Metabolic Diseases*

conference", Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. 002. (Oral presentation)

101. Rege S, Kumar S, Wilson D, **Geetha T**, Broderick TL, Babu JR (2016). Neuroprotective effects of Resveratrol against oxidative damage and memory loss *in vivo* and *in vitro*. *"9th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. P19.

102. **Geetha T**, Rege S, Vines KR, Zheng C, Sustarich J, Meakin S, Babu JR (2015). New player in insulin signalling. *"This is Research - Faculty Symposium",* Auburn University, Auburn, AL, USA, Sep 30, 2015.

103. Zheng C, Whitehead J, Baker J, Sustarich J, **Geetha T,** Babu JR (2015). Impairment of NGF signaling in Alzheimer disease. *"6th Annual UAB Diabetes Research Day"*, The University of Alabama at Birmingham, Birmingham, AL, USA, May 5, 2015. Poster No. 42.

104. Rege S, **Geetha T**, Babu JR (2015). Neuroprotective effect of resveratrol in rat hippocampal (H19-7) neuronal cells. *"6th Annual UAB Diabetes Research Day"*, The University of Alabama at Birmingham, Birmingham, AL, USA, May 5, 2015. Poster No. 35.

105. Rege S, **Geetha T**, Babu JR (2015). Resveratrol protects against β-amyloid induced toxicity. *"This is Research - Student Symposium"*, Auburn University, Auburn, AL, USA, April 13, 2015. (Oral presentation).

106. Zheng C, Whitehead J, Phillips B, Pool T, Rushton C, **Geetha T**, Gearing M, Babu JR. (2015). TrkA in Alzheimer's disease. *"This is Research - Student symposium",* Auburn University, Auburn, AL, USA, April 13, 2015. (Oral presentation).

107. Baker J, Sustarich J, **Geetha T** (2015). Decreased level of NGF in Alzheimer's disease human brain. *"Undergraduate Research Symposium"*, Auburn University at Montgomery, 3 April 2015. (Oral presentation and were awarded second place)

108. Carter A, **Geetha T**, Babu JR (2015). TRAF6 and p62 complex is necessary for Akt ubiquitination, activation and translocation in insulin signaling. *"8th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 13, 2015. Abstract No. 7.

109. Rege S, **Geetha T**, Babu JR (2015). Resveratrol protects hippocampal neurons from β-amyloid induced oxidative damage and memory associated proteins. *"8th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 13, 2015. Abstract No. P22.

110. Zheng C, Whitehead J, Phillips B, Pool T, Rushton C, **Geetha T**, Gearing M, Babu JR (2015). TrkA ubiquitination is impaired in Alzheimer's disease. *"8th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 13, 2015. Abstract No. O02, (Oral presentation).

111. Babu JR, Zheng C, **Geetha T** (2014). Neurotrophin in Alzheimer Disease. *"Auburn Research Day",* Auburn University, Auburn, AL, USA, June 3, 2014. (Oral presentation).

112. Mathews S, Zheng C, **Geetha T,** Babu JR (2014). Ubiquitination of TRAF6 is impaired in Alzheimer's disease. *"Auburn Research Day",* Auburn University, Auburn, AL, USA, June 3, 2014 (make-up day). (Oral presentation).

113. Qayum M,[U] Bateman T,[U] Geetha T (2014). Nerve growth factor overlaps with insulin signaling. *"Undergraduate Research Symposium"*, Auburn University at Montgomery, AL, USA. April 4, 2014. Abstract No. 6.

114. Rege S, **Geetha T**, Broderick T, Babu JR (2014). Neuroprotective effect of Resveratrol in Obese Diabetic Mice. *"Graduate Scholars forum",* Auburn University, Auburn, AL, USA, March 4, 2014. Oral Presentation[#].

115. Zheng C, Mathews S, Qayum M,[U] **Geetha, T**, Babu JR (2014). Nerve growth factor leads to ubiquitination and phosphorylation of AKT. *"7th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 28, 2014. Abstract No. P024.

116. Rege S, Mathews S, Qayum M,[U] **Geetha T**, Babu JR (2014). Neuroprotective effect of resveratrol in the brain of obese diabetic mice. *"7th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 28, 2014. Abstract No. P017.

117. Zheng C, Mathews S, Qayum M,[U] **Geetha T,** Babu JR (2014). Polyubiquitination of Akt in nerve growth factor signaling. *"Graduate Scholars forum"*, Auburn University, Auburn, AL, USA, March 4, 2014. (Oral Presentation).

118. **Geetha T**, Rege S, Mathews S, Meakin S, Morris M, Babu JR (2014). Nerve growth factor receptor TrkA interacts with insulin receptor. *"7th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, Auburn, AL, USA, February 28, 2014. Abstract No. P021.

119. Wilson D, Rege SD, Kumar S, **Geetha T**, Babu JR, Broderick TL (2013). Beneficial effect of resveratrol on antioxidant status in brain of obese diabetic mice. *"Midwestern University Research Day"*, Midwestern University, Phoenix, AZ, USA, April 16, 2013. Abstract No. P097.

120. Babu JR, Zheng C, **Geetha, T**, Kluess, H, Singh, N, Diaz-Meco MT, Moscat J (2013). Amyloid β-induced neuronal death through p75 receptor is rescued by TRAF6 and p62. *"Research Week"*, Auburn University, Auburn, AL, USA, April 1-4, 2013.

121. Zheng C, **Geetha T**, Gearing M, Babu JR (2013). Aβ impairs TrkA polyubiquitination and activation of MAPK and Akt. *"6th Annual Boshell Diabetes and Metabolic Diseases conference",* Auburn University, Auburn, AL, USA, March 1, 2013. Abstract No. P017.

122. **Geetha T**, Rege S, Mathews S, Meakin S, Babu JR (2013). Interaction of IRS-1 with nerve growth factor receptor TrkA. *"6th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 1, 2013. Abstract No. P021.

123. Rege S, Kumar S, Wilson D, **Geetha T**, Broderick T, Babu JR (2013). Resveratrol protects the oxidative damage in the brain of ob/ob mice. *"6th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 1, 2013. Abstract No. P014.

124. Kumar S, Rege S, Wilson D, **Geetha T**, Broderick T, Babu JR (2012). Attenuation of oxidative damage in brain of obese mice by resveratrol. *"Vanderbilt Diabetes Day",* Vanderbilt University, Nashville, TN, USA, November 14, 2012. Abstract No. 38.

125. **Geetha T**, Zheng C, Broderick T, Babu JR (2012). Sequestosome 1/p62 regulates insulin stimulated glucose uptake. *"5th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, March 2, 2012. Abstract No. P013.

126. Babu JR**,** Diarra A, **Geetha T** (2011). Sequestosome 1/p62, a new family member in the IRS-1 signaling complex. *"4th Annual Boshell Diabetes and Metabolic Diseases conference",* Auburn University, Auburn, AL, March 4, 2011.

Grants and Contracts

Funded Research Grants:

1. NIH-NHLBI-R15 (Academic Research Enhancement Award for Undergraduate-Focused Institutions): Identifying interconnections of the disparities in childhood obesity. **Role: Principal Investigator**, $441,498 (May 3, 2023 – April 30, 2026).
2. USDA, Alabama Agricultural Experiment Station AgR-SEED Program: Race/ethnicity related epigenetic modifications in childhood obesity. **Role: Principal Investigator**, $50,000 (October 1, 2022-Sep 30, 2024).
3. USDA, Alabama Agricultural Experiment Station Hatch funding Program: Epigenetics and Childhood obesity. **Role: Principal Investigator**, $543,710 (Oct 1, 2023- Sep 31, 2028).
4. USDA, Alabama Agricultural Experiment Station Award for Equipment Grant Program: Hybrid fluorescence microscopy for health sciences research. **Role: Principal Investigator**, $51,114.62 (June 1-September 15, 2021).
5. Auburn University-Intramural Grant Program (AU-IGP): Volatile organic compounds and microbiota profile in childhood obesity. **Role: Principal Investigator,** $20,000 (April 1, 2020 - March 31, 2022).
6. USDA, Alabama Agricultural Experiment Station Award for Interdisciplinary (AIR) funding program: Factors associated with disparities in childhood obesity. **Role: Principal Investigator**, $149,873 (Oct 1, 2019-Sep 31, 2021).
7. National Institute of Health (NIH) National Research Service Award (NRSA): Outcomes of Type 2 diabetes prevention and self-management education and support. **Role: Principal Investigator,** Total Award: $47,126 (July 1, 2020- June 30, 2021) [also given under student fellowships/awards].
8. Women's Philanthropy Board Philanthropic Impact Grant: Hereditary and biological markers associated with childhood obesity. **Role: Principal Investigator**, $10,000 (July 1, 2019-June 30, 2020).
9. USDA, Alabama Agricultural Experiment Station Award for Interdisciplinary (AIR) funding program: Nerve growth factor administration for treating type 2 diabetes linked Alzheimer's disease. **Role: Co-Principal Investigator**, $142,747 (Oct 1, 2018-Sep 31, 2020).
10. Presidential Awards for Interdisciplinary Research (PAIR) Tier II: Center for Neuroscience. **Role: Member of the team**, $637,000. (June 1, 2018-May 31, 2021).
11. Women's Philanthropy Board Philanthropic Impact Grant: Treating obesity in college-age women with trauma-informed nutrition care: A needs assessment. **Role: Co-Principal Investigator**, $9,000 (July 1, 2018-June 30, 2019).
12. USDA, Alabama Agricultural Experiment Station AgR-SEED Program: Racial and ethnic health disparities in children of Alabama. **Role: Principal Investigator**, $5,000 (October 2018-Sep 2019).
13. USDA, Alabama Agricultural Experiment Station Hatch funding Program: Childhood obesity in Alabama: Risk Factors. **Role: Principal Investigator**, $644,671 (Oct 1, 2018- Sep 31, 2023).
14. Grant-In Aid Award: Scaffolding proteins in insulin signaling. **Role: Principal Investigator**, $5,000 (Oct 1, 2015-Sep 30, 2017).
15. Ida Belle Young Faculty Research Award: Cell Culture Facility for Health Sciences Research. **Role: Principal Investigator**, $21,426 (Jan 1, 2014-Sep 30, 2014).

16. New Faculty Grant-In Aid: Akt ubiquitination in NGF signaling. **Role: Principal Investigator**, $5,000 (Jan 1, 2014-Sep 30, 2015).
17. Dean's Initiative Grant Award: Amyloid beta in TrkA signaling. **Role: Principal Investigator**, $2,000 (Oct 1, 2013-Sep 30, 2015).
18. American Heart Association Postdoctoral Research Fellowship: Role of Atypical Protein Kinase C Interacting Protein p62 in Assembly of the Nuclear Factor kappa B Complex. **Role: Principal Investigator**, $63,000 (July 1, 2002- June 30, 2014).
19. Senior Research Fellowship: University Grants Commission, Delhi, India. **Role: Principal Investigator**, $10,000 (July 1, 1997-June 30, 2000).
20. Junior Research Fellowship: University Grants Commission, Delhi, India. **Role: Principal Investigator**, $5,000 (July 1, 1995-June 30, 1997).

Funded STEM grants:

21. Graduate Research Training Initiative for Student Enhancement (G-RISE) T32 Application: G-RISE at Auburn University (1T32GM141739-01). **Role: Potential Mentor**, $1,500,000 (June 1, 2021-May 31, 2026).
22. National Science Foundation (NSF-LSAMP): The Greater Alabama Black Belt Region (GABBR) Alliances (Multi-institutional Partnerships) **Role: Principal Investigator** from AUM ($400,000), Total $5,000,000 (Oct 1, 2017- Sep 31, 2022).

PRESS/NEWS FEATURES:

2023: Research featured at Auburn Research Spring/summer issue; "Breaking Childhood Obesity" was highlighted.

2022: Research featured at *Opelika-Auburn News*, *Local Today News*, and *Dothan Eagle News* on September 23rd, "Here's why Alabama has the nation's fifth highest childhood obesity rate and how we can improve."

https://oanow.com/news/local/heres-why-alabama-has-the-nations-fifth-highest-childhood-obesity-rate-and-how-we-can/article_864fadfc-352e-11ed-9a21-57177c388cf4.html

2021: Research featured at Auburn News, "Auburn's Boshell diabetes research program brings together faculty in fight against deadly disease."

2018: Alabama Agricultural Experimental Station (AAES) Annual Report, my research on "Link between genetic and metabolic factors on obesity in children" was highlighted.