

# GEETHA THANGIAH, PhD

Associate Professor  
Department of Nutritional Sciences  
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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

2017- Associate Professor, Auburn University, Auburn, AL, USA  
2013-2017 Assistant Professor, Auburn University at Montgomery, AL, USA  
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: 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

### Teaching in Current Rank at Auburn University:

NTRI 8990: Research and Dissertation  
NTRI 8850/7850/7856: Research Seminar for Doctoral/ Master's Program  
NTRI 7980: Non-Thesis Research  
NTRI 7930: Advanced Topics in Nutrition and Food Science  
NTRI 7530/7536: Human Nutrient Metabolism  
NTRI 7520/7526: Macronutrients: Integration and Metabolism  
NTRI 4980: Undergraduate Research and Study  
NTRI 2000: Nutrition and Health

**Courses Taught at Auburn University at Montgomery:**

CHEM 3300/3301: Biochemistry Course/Lab

CHEM 1100/1101: General Chemistry I Course/Lab

CHEM 1200/1201: General Chemistry II Course/Lab

**Graduate Students Completed****Major Professor:**

<b>No.</b>	<b>Name</b>	<b>Degree</b>	<b>Thesis/Non-thesis Title</b>	<b>Year</b>	<b>Current Position</b>
1	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
2	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 Director, Didactic Program in Dietetics (DPD) at Alabama A & M University
3	Priscilla Ayine	Ph.D., Nutrition	An Analysis of Social Ecological Elements Influence on Weight Gain in Children from Alabama	Spring 2021	Assistant Professor and Extension Specialist at Tennessee State University
4	Megan Phillips	Ph.D., Nutrition	Association of DNA Copy Number and Structural Variation with Racial Disparities in Childhood Obesity	Spring 2021	Research Scientist, Discovery Life Sciences, Huntsville, AL
5	Bailey Saneman	M.S Nutrition (non-thesis)	Sleep Duration, Patterns and Timing Associated with Childhood Obesity	Spring 2020	Renfrew Center, Specialist for eating disorders
6	Ashley Williams	M.S Nutrition (non-thesis)	The Effects of Vitamin D Supplementation on Metabolic Profiles in Women with Polycystic Ovary Syndrome	Summer 2019	Dietitian, Morrison Healthcare, Mobile Infirmary Hospital, AL

**Committee Member:**

<b>No.</b>	<b>Name</b>	<b>Degree</b>	<b>Thesis Title</b>	<b>Year</b>	<b>Current Position</b>
7	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 Company, GA
8	Emma Colombo	M.S., Nutrition (non-thesis)	Glutamine and Gut health	2023	Dietetic Internship
9	Sadie Jakim	M.S., Nutrition (non-thesis)	Vitamin D and Epilepsy	2023	Dietetic Internship

10	MaryGrace Gilkey	M.S., Nutrition (non-thesis)	Wernick's Encephalopathy and Thiamine Treatment of Alcoholics	2023	Registered Dietician, Carolinas Medical Center, Charlotte, NC
11	Erika Richter	M.S., Nutrition (non-thesis)	The effects of <i>momordica charantia</i> (bitter melon) on type 2 diabetes mellitus and Alzheimer's disease	2023	Starting in Fall as Doctoral student in Nutritional Science, Auburn University, AL
12	Katherine Kinnaird	M.S., Nutrition (non-thesis)	The role of vitamin D in post-stroke rehabilitation	2023	Dietetic Internship
13	Amanda Buchanan	M.S., Nutrition (non-thesis)	The Menopausal Transition and Metabolic Syndrome	2023	Dietetic Internship
14	Addison Rains	M.S., Nutrition (non-thesis)	The Effect of Vitamin D Supplementation on Depressive Symptoms in Adults	2023	Dietetic Internship
15	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
16	Abril Rodriguez	M.S., Nutrition (non-thesis)	Potential Risks and Metabolic Concerns Associated with Obesity and Branched Chain Amino Acids	2023	Dietetic Internship
17	Jessica Crim	M.S., Nutrition (non-thesis)	Ashwagandha (AW) and its effects on stress and neuropsychiatric disorders: Anxiety, Depression, and Insomnia	2023	Dietetic Internship
18	Madelyn Borel	M.S., Nutrition (non-thesis)	Effects of Intermittent Fasting on Cancer Treatment and Prevention	2023	Dietetic Internship
19	Sara Tamplin	M.S., Nutrition (non-thesis)	Brain abnormalities in Anorexia Nervosa	2023	Dietetic Internship
20	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
21	Jade Jensen	M.S., Nutrition (non-thesis)	Enhanced Recovery After Surgery (ERAS) Protocol: Gastrointestinal Tract Surgeries	2022	Clinical Dietitian Mayo clinic, Rochester, MN
22	Cailyn Meador	M.S., Nutrition (non-thesis)	The effect of caffeine on endurance cycling performance	2022	Completed Dietetic Internship RD Eligible
23	Glenn Walters	M.S., Nutrition (non-thesis)	Eating Disorders in Female Athletes	2022	Specialist for eating disorders
24	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

25	Morgan Huebner	M.S., Nutrition (non-thesis)	Relieving IBS Symptoms with a Low FODMAP Diet: A Review of the Literature	2022	Dietetic Internship
26	Ansley Sharpe	M.S., Nutrition (non-thesis)	Adverse Childhood Experiences and Adult Outcomes	2022	Associate Scientist, Pharmaceutical Associates & Cooperative, South Carolina
27	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
28	Madeline Workman	M.S., Nutrition (non-thesis)	Effects of Beta-Alanine Supplementation on Athletic Performance	2022	Registered Dietitian Tennessee
29	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
30	Heidi Lohmann-Schrader	M.S., Nutrition (non-thesis)	The Effect of Bariatric Surgeries on Binge Eating Disorder	2022	Registered Dietitian
31	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
32	Alecia Catron	M.S., Nutrition (non-thesis)	Evaluating the Effects of Plant-Based Style Diets in Outcomes Among Hemodialysis Patients	2021	Registered Dietitian Ohio
33	Maranda Boyd	M.S., Nutrition (non-thesis)	Breastfeeding's Association with Postpartum Depression	2021	Nutritionist, Women, Infants, and Children
34	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
35	Brian Bowers	M.S., Nutrition (non-thesis)	Beneficial Effects of Intermittent Fasting on Cognitive Decline in Dementia	2021	Registered Dietitian, Philadelphia, PA
36	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
37	Maitha Aldokhayyil	Ph.D., Kinesiology	Role of TNFRI Signaling in Racial Differences in Endothelial Function: Potential Modulatory	2020	Lecturer, Imam Abdulrahman bin Faisal University, Dammam, SA
38	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

39	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
40	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
41	Lisa Clarke	M.S., Nutrition (non-thesis)	Polyphenols and Flavonoids on Cognitive Function and Athletic Performance	2020	Registered Dietitian
42	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
43	Allison Tolman	M.S., Nutrition (non-thesis)	Perceptions of Registered Dietitians on Performance and Value of Certified Dietary Managers	2020	Registered Dietitian Georgia
44	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
45	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
46	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
47	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
48	Gisele Miller	M.S., Nutrition (non-thesis)	Lipid Emulsion in Pediatric Intestinal Failure and Short Bowel Syndrome	2019	Dietetic Internship
49	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
50	Emily Dodd	M.S., Nutrition (non-thesis)	The Ketogenic Diet and Inflammatory Disease	2018	Dietetic Internship
51	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, Auburn University

52	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
53	Talia Tornabene	M.S., Nutrition (non-thesis)	Obesity, Insulin Resistance and Cognitive Impairment: Pathogenesis and Treatment	2017	Ph.D. student, Auburn University, AL
54	Katie Vines	M.S., Nutrition (thesis)	TrkA receptor in streptozotocin induced diabetes rat brain	2016	Doing General Surgery fellowship at USA, Mobile, AL

**Outside Reader/External Examiner**

<b>No.</b>	<b>Name</b>	<b>Degree</b>	<b>Thesis Title</b>	<b>Year</b>	<b>Current Position</b>
55	Olivia Nichols	Ph.D., Human Development and Family Studies	Early Contextual Influences on Young Adult Sleep and Sleep Inequities	Summer 2023	Executive Director of a Community Health Center, Wisconsin
56	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 Research Fellow
57	Cordelia Mano John	Ph.D., Biomedical Sciences Sri Ramachandra Institute of Higher Education and Research, India	Anti-adipogenic potential of natural phytochemicals 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
58	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
59	Kameron Suire	Ph.D., Kinesiology	Motivational Interviewing for Weight Management among College Students	Summer 2021	Postdoctoral Fellow University of Kansas Medical Center, Kansas
60	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

**Graduate Students Currently Serving  
Major Professor**

<b>No.</b>	<b>Name</b>	<b>Degree Expected (Department)</b>	<b>Tentative Graduation Date</b>
1	Priyadarshini Patel	Ph.D (Nutrition)	Fall 2023
2	Adebowale Samuel Oyerinde	Ph.D (Nutrition)	Spring 2026
3	Erika Richter	Ph.D (Nutrition)	Spring 2026

**Committee Member**

<b>No.</b>	<b>Name</b>	<b>Degree Expected (Department)</b>	<b>Tentative Graduation Date</b>
1	Megan Shawl	M.S., Nutrition (non-thesis)	Fall 2023
2	Courtney Frerichs	M.S., Nutrition (non-thesis)	Fall 2023
3	Lauren Jun	Ph.D (Nutrition)	Summer 2024
4	Emily Bourne	Ph.D (Nutrition)	Summer 2024
5	Phillip Hajek	Ph.D (Nutrition)	Summer 2024
6	Hassan Jafari	Ph.D (Nutrition)	Summer 2024
7	Rita Fiagbor	Ph.D (Nutrition)	Fall 2024

**Supervision of Postdoctoral Fellow**

<b>No.</b>	<b>Name</b>	<b>Year</b>	<b>Current Position</b>
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

**Undergraduate Researchers Mentored/Currently Mentoring**

<b>No.</b>	<b>Name</b>	<b>Year</b>	<b>Current Position</b>
1	Mallory Gibson	Summer 2023-Present	Junior, Biomedical Science, (Pre-Medicine)
2	Jack'Quoia Baulding	Summer 2023-Present	Junior, Biomedical Science, (Pre-Medicine)
3	Jeremy Carson	Spring 2023-Present	Senior, Biomedical Sciences (Pre-Dental student)
4	Margaret Crim	Fall 2021	Junior, Nutrition Science (Pre-dental)
5	Cassie Ambrose	Fall 2021	Junior, Microbiology (Pre-Physician's Assistant)
6	Sydney Burnett	Fall 2021	Junior, Microbiology (Pre-Physician's Assistant)
7	Caleb Killingsworth	Summer 2021 – Fall 2021	Junior, Microbiology (Pre-Med)
8	Anna Fouty	Spring 2019 – Spring 2021	Senior, Nutrition Sciences

9	Alana Blocker	Spring 2019 – Spring 2020	Senior, Nutrition Sciences
10	Taylor Koenigs	Spring 2018 – Spring 2019	Public health Nutrition, University of Tennessee, Knoxville
11	Moni Fadamiro	Spring 2019 – Summer 2019	Junior, Nutrition Sciences
12	Emily Peyton Parra	Fall 2017 – Spring 2019	Medical School, University of South Alabama
13	Beatriz Carmona	Fall 2017 – Spring 2018	Senior, Nutrition Sciences
14	Isabella A. Lopez	Fall 2017 – Spring 2018	Senior, Biomedical Sciences
15	Jake Sustarich	Fall 2013 – Spring 2017	Mechanical Engineering Graduate Student, Auburn University
16	Sanmeet Suchdeva	Spring 2016 – Spring 2017	Unknown
17	Joshua Baker	Fall 2015 – Spring 2016	Student at VCOM, Auburn
18	Maryam Qayum	Fall 2013 – Spring 2015	Adjunct faculty, AUM
19	Troi Batman	Fall 2013 – Spring 2014	Senior, Biomedical Sciences

### Graduate and Undergraduate students Fellowship/Awards

The candidate has mentored several undergraduate, graduate research students, and postdoctoral fellows in research, and is co-authors on several manuscripts, abstracts, and presentations. The candidate has assisted undergraduate and graduate research students who received awards and funding for their research projects as follows:

1. 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 in University-Wide Graduate Student Winners. Role: Major Professor and Dissertation Supervisor. Award: \$500. Her research was spotlighted in the Auburn University website.  
[https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2022Spot\\_PPatel](https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2022Spot_PPatel)
2. 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).
3. 2021 Auburn Research Student Symposium: Second place was awarded to Priscilla Ayine in University-Wide Graduate Student Winners. Role: Major Professor and Dissertation Supervisor. Award: \$250.
4. 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-predocotrinal-trainees>
5. 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>



6. 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).
7. 2020 Auburn Research Student Symposium: Second place was awarded to Priscilla Ayine in University-Wide Graduate Student Winners. Role: Major Professor and Dissertation Supervisor. Award: \$250. Her research was spotlighted in the Auburn University website. [https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2020Spot\\_PAyine](https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2020Spot_PAyine)
8. 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).
9. 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](http://ocm.auburn.edu/newsroom/campus_notices/2019/12/02150-3mtwinner.php)
10. 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/>
11. 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).
12. CHS Graduate symposium: Second place was awarded to Brittannie Chester, Graduate Student. Role: Major Professor and Dissertation Supervisor. Award: \$150 (Spring 2018).
13. 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/>
14. 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).
15. 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>
16. AUM Undergraduate Research Symposium: First place for oral presentation was awarded to Jake Sustarich and Sanmeet Suchdeva. Role: Mentor. Award: \$100 (April 2016).
17. AUM Undergraduate Research Symposium: Second place for oral presentation was awarded to Joshua Baker and Jake Sustarich. Role: Mentor. Award: \$75 (April 2015).

## Scholarly and Creative Productivity

### Publications:

Book Chapters: **2**

Research Publications Refereed Full Length: **81**

Abstract Publications: **19**

International / National meetings: **36**

State / Regional meetings: **84**

### Books

1. Selvaraju V., Babu J.R., **Geetha T<sup>+</sup>** (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](https://doi.org/10.1007/978-3-030-81303-1_17-1)

2. Patel P., **Geetha T<sup>+</sup>** (2023)

Personalized Epigenetics: Analysis and Interpretation of DNA Methylation Variation.

In: Tollefsbol T.O. (ed) Personalized Epigenetics—Second Edition. Elsevier Publisher. (In Process)

### 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 (<sup>P</sup>), graduate research student with an superscript G (<sup>G</sup>), undergraduate research student with an superscript U (<sup>U</sup>). The contribution of the candidate is given as percentage in parenthesis. In the manuscript the first author is the most significant, and candidate allowed the graduate students or the postdoctoral fellow as first author. When the candidate is listed as corresponding author, it signifies that the research was done under candidate's direction and lab. The publications are in the name of Thangiah Geetha (Geetha T). **5Y IF= Five-year Impact factor; TC = Total citations; % = candidate effort; <sup>+</sup> Corresponding author.**

**Research findings are cited in 5716 articles to date (October 19, 2023).**

Citation indices	All	Since 2018
Citations	5716	2238
h-index	37	24
i10-index	59	51

Number of journal citations was obtained from Google Scholar (author search: Geetha T).

[Google Scholar](#)

1. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, **Geetha T<sup>+</sup>**. Association of the DNA methylation of obesity-related genes with the dietary nutrient intake in children. *Nutrients* 2023; 15(13):2840. doi: 10.3390/nu15132840. [30%; IF-6.706]
2. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, Wang X, **Geetha T<sup>+</sup>**. Novel differentially methylated regions identified by genome-wide DNA methylation analyses contribute to racial disparities in childhood obesity. *Genes* 2023; 14(5):1098. doi: 10.3390/genes14051098. [30%; TC-1; IF-4.141]

3. Oyerinde AS,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, **Geetha T**<sup>†</sup>. Potential role of oxidative stress in the production of volatile organic compounds in obesity. *Antioxidants* 2023; 12(11):129. doi: 10.3390/antiox12010129. [30%; IF-7.675]
4. Aldokhayyil M, Gomez DH, Cook MD, Kavazis AN, Roberts MD, **Geetha T**, Brown MD. Influence of race and high laminar shear stress on TNFR1 signaling in endothelial cells. *Int J Mol Sci.* 2023; 24(19):14723. doi: 10.3390/ijms241914723.
5. Knight E,<sup>G</sup> **Geetha T**, Broderick TL, Babu JR. The role of dietary antioxidants and their potential mechanisms in Alzheimer's disease treatment. *Metabolites* 2023; 13(3):438. doi: 10.3390/metabo13030438. [10%; IF – 5.581]
6. Richter E,<sup>G</sup> **Geetha T**, Burnett D, Broderick TL, Babu JR. The effects of *Momordica charantia* on type 2 diabetes and Alzheimer's disease. *Int J Mol Sci.* 2023; 24(5):4643. doi: 10.3390/ijms24054643. [10%; IF – 6.208]
7. Jun L,<sup>G</sup> Robinson M,<sup>G</sup> **Geetha T**, Broderick TL, Babu JR. Prevalence, and mechanisms of skeletal muscle atrophy in metabolic conditions. *Int J Mol Sci.* 2023; 24(3):2973. doi: 10.3390/ijms24032973 [10%; IF – 6.208]
8. Key J,<sup>G</sup> Burnett D, Babu JR, **Geetha T**<sup>†</sup>. The effects of food environment on obesity in children: A systematic review. *Children* 2023; 10(1):98. doi: 10.3390/children10010098. [30%; IF-2.835]
9. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, Wang X, **Geetha T**<sup>†</sup>. Racial disparities in methylation of *NRF1*, *FTO*, and *LEPR* gene in childhood obesity. *Genes* 2022; 13(11):2030. doi: 10.3390/genes13112030 [30%; TC-1; IF-4.141]
10. Knight E,<sup>G</sup> **Geetha T**, Burnett D, Babu JR. The role of diet and dietary patterns in Parkinson's disease. *Nutrients* 2022; 14(21):4472. doi: 10.3390/nu14214472 [10%; TC-5; IF – 6.706]
11. Selvaraju V,<sup>P</sup> Babu JR, **Geetha T**<sup>†</sup>. Salivary neurotrophins brain-derived neurotrophic factor and nerve growth factor associated with childhood obesity: A multiplex magnetic luminescence analysis. *Diagnostics* 2022; 12(5):1130. doi: 10.3390/diagnostics12051130 Highlighted in cover page <https://www.mdpi.com/2075-4418/12/5> [40%; TC-1; IF - 3.992]
12. Selvaraju V,<sup>P</sup> Babu JR, **Geetha T**<sup>†</sup>. Multiplexed measurements of salivary fetuin-A, insulin, and adiponectin as potential non-invasive biomarkers in childhood obesity. *Cytokine* 2022; 153:155843. doi: 10.1016/j.cyto.2022 [40%; TC-2; IF-3.926]
13. Li R<sup>G</sup>, Ding X,<sup>G</sup> **Geetha T**, Fadamiro M,<sup>U</sup> St Aubin CR, Shim M, Al-Nakkash L, Broderick TL, Babu JR. Effects of Genistein and Exercise Training on Brain Damage Induced by a High-Fat High-Sucrose Diet in Female C57BL/6 Mice. *Oxidative Medicine and Cellular Longevity* 2022:1560435. doi: 10.1155/2022/1560435 [10%; TC-3; IF – 7.310]
14. Patel P,<sup>G</sup> Babu JR, Wang X, **Geetha T**<sup>†</sup>. Role of macronutrient intake in the epigenetics of obesity. *Biochemical Society Transactions* 2022; BST20211069. doi: 10.1042/BST20211069 [30%; TC-2; IF-5.407]

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**Abstracts Publications:**

1. Phillips M,<sup>G</sup> Selvaraju V,<sup>P</sup> Fouty A,<sup>U</sup> Sandey M, Jeganathan R, **Geetha T**<sup>†</sup>. Gender differences in the copy number of 11q11 gene in European American obese children. *Diabetes* 2020; 66: 1256-P [30%; IF-9.461]
2. Venkatapoorna C,<sup>P</sup> Ayine P,<sup>G</sup> Parra P,<sup>U</sup> Koenigs T,<sup>U</sup> Sandey M, Jeganathan R, **Geetha T**<sup>†</sup>. Low AMY1 gene copy number is associated with increased childhood obesity in Alabama. *Diabetes* 2019; 65: A5064. [30%; IF-9.461]
3. Selvaraju V,<sup>P</sup> Ayine P,<sup>G</sup> Parra P,<sup>U</sup> Brown M, Jeganathan R, **Geetha T**<sup>†</sup>. Endothelial dysfunction, inflammation, and oxidative stress urinary biomarkers in obese children from Alabama. *Diabetes* 2019; 65: A6137. [30%; IF -9.461]



4. Ayine P,<sup>G</sup> Parra P,<sup>U</sup> Jeganathan R, **Geetha T<sup>+</sup>**. Influence of Race, Ethnicity, and behavioral factors on Childhood Obesity. *Diabetes* 2018; 65: A452. [30%; TC-4; IF-9.461]
5. Chester B,<sup>G</sup> Stanley WG, **Geetha T<sup>+</sup>**. The efficacy of registered dietitian interventions in type 2 diabetes management in a family practice clinic in North Alabama. *Diabetes* 2018; 65: A452. [40%; TC-2; IF-9.461]
6. **Geetha T<sup>+</sup>**, Zheng C,<sup>G</sup> Kothari V,<sup>G</sup> Carter A, SD, Vines K, Sustarich J, Babu JR. The RING finger domain of TRAF6 interacts with Akt for its ubiquitination and activation of insulin stimulation. *Diabetes* 2016; 65: A452. [30%; IF-9.461]
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8. **Geetha T<sup>+</sup>**, Zheng C,<sup>G</sup> Baker J, Gearing M, and Babu JR. Polyubiquitination of Akt is impaired in Alzheimer's disease. *Alzheimer's & Dementia* 2015; 11: P861. [40%; 5Y IF-16.655]
9. **Geetha T<sup>+</sup>**, Rege SD,<sup>G</sup> Vines K,<sup>G</sup> White D, Carroll C, Broderick T, Babu JR. TrkA Receptor in Streptozotocin-induced Diabetic Rat Brain (2842-PO). *Diabetes* 2015; 64: A715. [40%; IF-9.461]
10. Pondugula SR, Flannery PC, Apte U, Babu JR, **Geetha T**, Rege SD,<sup>G</sup> Chen T, Abott KL. PPM1A phosphatase is involved in regulating PXR-mediated CYP3A4 gene expression. *Drug Metabolism and Disposition* 2015; dmd 114.062083. [20%; TC-1; 5Y IF-3.61]
11. Rege SD,<sup>G</sup> **Geetha T**, Broderick T, and Babu JR. Resveratrol Protects Proteins Associated with Memory Loss in Obese Diabetic Mice (1988-P). *Diabetes* 2014; 63: A509. [20%; IF-9.461]
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### **Presentation in Professional Meetings**

#### ***Papers at International / National meetings***

1. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Wang X, Babu JR, and **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.
2. Phillips M,<sup>G</sup> Selvaraju V,<sup>P</sup> Fouty A,<sup>U</sup> Sandey M, Babu JR, and **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.
3. Venkatapoorna C,<sup>P</sup> Ayine P,<sup>G</sup> Parra P,<sup>U</sup> Koenigs T,<sup>U</sup> Sandey M, Babu JR, and **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.
4. Selvaraju V,<sup>P</sup> Ayine P,<sup>G</sup> Parra P,<sup>U</sup> 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.
5. Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Babu JR, and **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.
6. Chester B,<sup>G</sup> Stanley WG, and **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.
7. Sustarich J,<sup>U</sup> Suchdeva S,<sup>U</sup> Sycheva M, Babu JR, and **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.
8. **Geetha T**, Zheng C,<sup>G</sup> Kothari V,<sup>G</sup> Carter A, Vines K, Sustarich J,<sup>U</sup> and 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.
9. Kothari V,<sup>G</sup> Tornabene T,<sup>G</sup> Luo Y,<sup>G</sup> Greene M, **Geetha T**, and 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*).
10. **Geetha T**, Zheng C,<sup>G</sup> Baker J,<sup>U</sup> Gearing M, and 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.
11. Rege SD,<sup>G</sup> Bottcher M, **Geetha T**, Broderick T, and Babu JR (2014). Neuroprotective effects of resveratrol against  $\beta$ -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.

12. Zheng C,<sup>G</sup> Mathews S,<sup>U</sup> **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.
13. Rege SD,<sup>G</sup> **Geetha T**, Broderick T, and 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.
14. Zheng C,<sup>G</sup> **Geetha T**, Gearing M, and Babu JR (2013). Amyloid  $\beta$  induced impairment of TrkA signaling in PC12 cells equivalent to Alzheimer’s disease. *“23rd Neuropharmacology Conference”*, San Diego, CA, USA, November 7-8, 2013.
15. **Geetha T**, Zheng C,<sup>G</sup> Diaz-Meco, M, Moscat J, and Babu JR (2013). TRAF6/p62 complex prevents amyloid  $\beta$  induced neuronal death. *“23rd Neuropharmacology Conference”*, San Diego, CA, USA, November 7-8, 2013.
16. Zheng C,<sup>G</sup> **Geetha T**, and Babu JR (2012). TRAF6 and p62 inhibit amyloid  $\beta$ -induced neuronal death through p75 neurotrophin receptor. *“Society for Neuroscience”*, New Orleans, LA, USA, October 13-17, 2012. Abstract No. 66.27/U4.
17. **Geetha T**, Zheng C,<sup>G</sup> Broderick T, and 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*).
18. Babu JR, Diarra A, Vishwaprakash N,<sup>P</sup> **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.
19. 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*).
20. **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”*, 70<sup>th</sup> 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*)
21. **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”*, 70<sup>th</sup> Scientific Sessions, Orlando, Florida, USA, 25-29 June 2010. Abstract No. 1377ADA10D1. (*Selected to be featured on a guided tour in the Poster Hall*)
22. **Geetha T**, Wooten MW (2006). Trafficking and sorting of the nerve growth factor receptor TrkA. *“Society for Neuroscience”*, 36<sup>th</sup> Annual Meeting, Atlanta, GA, USA, 14-18 October 2006. Abstract No. 622.6.
23. 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”*, 36<sup>th</sup> Annual

Meeting, Atlanta, GA, USA, 14-18 October 2006. Abstract No. 754.2.

24. Babu JR, Seibenhener ML, **Geetha T**, Cox N, Parameshwaran K, Suppramaniam V and 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.
25. 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.
26. 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.
27. 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
28. **Geetha T**, Seibenhener ML, Babu JR, and Wooten MW (2005). Interaction of TRAF6 with the p62 scaffold drives neurotrophin activation of NF- $\kappa$ B. *"Society for Neuroscience"*, Washington, DC, USA, November 12-16, 2005. Abstract No. 148.24.
29. 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.
30. 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.
31. 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.
32. **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.
33. **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.
34. **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.
35. **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.

36. **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.

***Presented at State and Local Professional Meeting***

1. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> 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).
2. Adebowale OS,<sup>G</sup> Boersma M, **Geetha T** (2023). Effect of H<sub>2</sub>O<sub>2</sub> 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).
3. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Wang X, Babu JR, **Geetha T** (2023). Epigenome-wide identification of novel methylated regions in childhood obesity. *"14<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. O03 (oral presentation).
4. Adebowale OS,<sup>G</sup> Selvaraju V,<sup>P</sup> **Geetha T** (2023). Oxidative stress in 3T3-L1 differentiated adipocytes. *"14<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. P36 (poster presentation).
5. Jun L,<sup>G</sup> Ding X,<sup>G</sup> Robinson M,<sup>G</sup> Jafari H,<sup>G</sup> **Geetha T**, Greene M, Babu JR. Molecular mechanisms of muscle atrophy in obese and T2DM mouse model. *"14<sup>th</sup> 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)
6. Robinson M,<sup>G</sup> Jun L,<sup>G</sup> 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. *"14<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference"*, Auburn University, Auburn, AL, USA, April 28, 2023. Abstract No. P42 (poster presentation).
7. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> 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).
8. Adebowale OS,<sup>G</sup> Selvaraju V,<sup>P</sup> **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).
9. Patel P,<sup>G</sup> **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).
10. Adebowale OS,<sup>G</sup> **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).
11. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> 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)

12. Chester B,<sup>G</sup> Selvaraju V,<sup>P</sup> 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.
13. Priyadarshni P,<sup>G</sup> **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.
14. Adebowale OS,<sup>G</sup> **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.
15. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> 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).
16. Chester B,<sup>G</sup> Selvaraju V,<sup>P</sup> 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. "13<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference", Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. O04 (oral presentation).
17. Ding X,<sup>G</sup> Selvaraju V,<sup>P</sup> Li R,<sup>G</sup> Aldhowayan A,<sup>G</sup> **Geetha T**, Greene MW, Babu JR (2021). Role of nerve growth factor in insulin resistance amelioration and cognitive performance improvement in diabetic mice brain. "13<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference", Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. O12 (oral presentation).
18. Aldhowayan A,<sup>G</sup> Ding X,<sup>G</sup> Li R,<sup>G</sup> Selvaraju V,<sup>P</sup> 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. "13<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference", Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P04.
19. Patel P,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, **Geetha T** (2021). Epigenetic changes in NRF1 and FTO gene through MethyLight assay amongst races in children. "13<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference", Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P20.
20. Selvaraju V,<sup>P</sup> Balakrishnan B, Chen J, Ayine P,<sup>G</sup> Yang L, Babu JR, **Geetha T** (2021). Ethnic-specific association of gut microbiome with childhood obesity. "13<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases Conference", Auburn University, Auburn, AL, USA, Sep 17, 2021. Abstract No. P32.
21. Ayine P,<sup>G</sup> Selvaraju V,<sup>P</sup> **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)
22. Li R,<sup>G</sup> 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)

23. Ding X,<sup>G</sup> 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)
24. Priyadarshni P,<sup>G</sup> **Geetha T** (2021). Epigenetics, Diet and Obesity. “*CHS Graduate Student Research Symposium*”, Auburn University, Auburn, AL, USA, March 19, 2021.
25. Ayine P,<sup>G</sup> Selvaraju V,<sup>P</sup> **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.
26. Selvaraju V,<sup>P</sup> Phillips M,<sup>G</sup> Fouty A,<sup>U</sup> Babu JR, **Geetha T**<sup>+</sup>. Telomere length as a biomarker for race-related health disparities. “*Health Disparities Research Initiative Virtual Symposium*”, Auburn University, Auburn, AL, USA, July 29, 2020.
27. Ayine P,<sup>G</sup> Selvaraju V,<sup>P</sup> **Geetha T**<sup>+</sup>. 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)
28. Fouty A,<sup>U</sup> Blocker A,<sup>U</sup> Phillips M,<sup>G</sup> Selvaraju V,<sup>P</sup> Babu JR, Sandey M, **Geetha T**<sup>+</sup>. The relationship between the copy number of *11q11* gene and childhood obesity. “*Virtual Symposium*”, Auburn University, Auburn, AL, USA, April 2020.
29. Selvaraju V,<sup>P</sup> 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.
30. Ayine P,<sup>G</sup> Venkatapoorna C,<sup>P</sup> Parra EP,<sup>U</sup> Koenigs T,<sup>U</sup> Selvaraju V,<sup>P</sup> 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. “*12<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference*”, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P29.
31. Venkatapoorna C,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Koenigs T,<sup>U</sup> Sandey M, Babu JR, **Geetha T** (2019) Low *AMY1* gene copy number is associated with childhood obesity. “*12<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference*”, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. O32.
32. Selvaraju V,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Brown M, Babu JR, **Geetha T** (2019) Association of inflammation, oxidative stress and endothelial dysfunction biomarkers in obese elementary school children. “*12<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference*”, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P44.
33. Zhang Y,<sup>G</sup> Rasool S,<sup>P</sup> Woodie L, Greene MW, Miller ME, **Geetha T**, Babu JR (2019) Restricted-time feeding ameliorates high fat sugar diet induced skeletal muscle degeneration. “*12<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference*”, Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P24.
34. Li R,<sup>G</sup> Rasool S,<sup>P</sup> Broderick T, **Geetha T**, Babu JR (2019) Neuroprotective roles of resveratrol and exercise training in Alzheimer disease mice model. “*12<sup>th</sup> Annual Boshell Diabetes and Metabolic*

*Diseases conference*", Auburn University, Auburn, AL, USA, Feb 15, 2019. Abstract No. P25. (Awarded third place for poster presentation)

35. Koenigs T,<sup>U</sup> Venkatapoorna CMK,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> 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.
36. Ayine P,<sup>G</sup> Venkatapoorna C,<sup>P</sup> Parra EP,<sup>U</sup> Koenigs T,<sup>U</sup> Selvaraju V,<sup>P</sup> 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.
37. Parra EP,<sup>U</sup> Ayine P,<sup>G</sup> Venkatapoorna CMK,<sup>P</sup> Koenigs T,<sup>U</sup> Selvaraju V,<sup>P</sup> 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.
38. Koenigs T,<sup>U</sup> Venkatapoorna CMK,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> 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.
39. Chester B,<sup>G</sup> **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)
40. **Geetha T**, Venkatapoorna C,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Koenigs T,<sup>U</sup> Babu JR (2018) Salivary amylase and childhood obesity. "2018 AAES Faculty Summit" Auburn University, Auburn, AL, USA, Dec 10, 2018.
41. Venkatapoorna C,<sup>P</sup> Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Koenigs T,<sup>U</sup> 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.
42. **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).
43. Venkatapoorna C,<sup>P</sup> 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.
44. Zhang Y,<sup>G</sup> Rasool S,<sup>P</sup> Li R,<sup>G</sup> Woodie L,<sup>G</sup> 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.
45. Li R,<sup>G</sup> Rasool S,<sup>P</sup> Zhang Y,<sup>G</sup> 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.
46. Chester B,<sup>G</sup> **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).



47. Ayine P,<sup>G</sup> Parra EP,<sup>U</sup> Carmona B,<sup>U</sup> Lopez I,<sup>U</sup> 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.
48. Sustarich J,<sup>U</sup> **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).
49. Sycheva M, Sustarich J,<sup>U</sup> **Geetha T**, Babu JR (2017) Pro-nerve growth factor induces activation of RhoA kinase in Alzheimer’s disease. *“10<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. P29.
50. 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. *“10<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. P16. (Award second place for poster presentation)
51. Rasool S, Zhang Y, Li Y, Woodie L, Greene M, **Geetha T**, Babu JR (2017) High-fat Diet in Mice Induced Skeletal Muscle Degeneration. *“10<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, March 3, 2017. Abstract No. O14.
52. **Geetha T**, Sycheva M, Sustarich J,<sup>U</sup> 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.
53. 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.
54. Sustarich J,<sup>U</sup> Suchdeva S,<sup>U</sup> **Geetha T** (2016) Enhanced expression of p75<sup>NTR</sup> induced by proNGF leads to neuronal apoptosis. *“This is Research - Student Symposium”*, Auburn University, Auburn, AL, USA, April 13, 2016.
55. Sustarich J,<sup>U</sup> Suchdeva S,<sup>U</sup> **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)
56. Vines K, Zheng C, Rege S, Matthews S, Bates J, Sustarich J,<sup>U</sup> **Geetha T**, Broderick TL, Babu JR (2016) TrkA and insulin receptor in streptozotocin induced diabetes rat brain. *“9<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. 007. (Oral presentation)
57. Zheng C, **Geetha T**, Kothari V, Carter A, Sustarich J,<sup>U</sup> Babu JR (2016) TRAF6 interact with Akt for its ubiquitination and activation on insulin stimulation. *“9<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. P25.
58. 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. *“9<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. 002. (Oral presentation)
59. 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*. *“9<sup>th</sup> Annual Boshell Diabetes and Metabolic Diseases conference”*, Auburn University, Auburn, AL, USA, February 26, 2016. Abstract No. P19.

60. **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.
61. 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.
62. 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.
63. Rege S, **Geetha T**, Babu JR (2015) Resveratrol protects against  $\beta$ -amyloid induced toxicity. *"This is Research - Student Symposium"*, Auburn University, Auburn, AL, USA, April 13, 2015. (Oral presentation).
64. 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).
65. Baker J, Sustarich J, **Geetha T**. 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)
66. 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.
67. Rege S, **Geetha T**, Babu JR (2015) Resveratrol protects hippocampal neurons from  $\beta$ -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.
68. 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. 002, (Oral presentation).
69. Babu JR, Zheng C, **Geetha T** (2014) Neurotrophin in Alzheimer Disease. *"Auburn Research day"*, Auburn University, Auburn, AL, USA, June 3, 2014. (Oral presentation).
70. 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).
71. Qayum M,<sup>U</sup> Bateman T,<sup>U</sup> Geetha T. Nerve growth factor overlaps with insulin signaling. *"Undergraduate Research Symposium"*, Auburn University at Montgomery, AL, USA. April 4, 2014. Abstract No. 6.
72. Rege S, **Geetha T**, Broderick T, and Babu JR (2014). Neuroprotective effect of Resveratrol in Obese Diabetic Mice. *"Graduate Scholars forum"*, Auburn University, Auburn, AL, USA, March 4, 2014. Oral Presentation#.

73. Zheng C, Mathews S, Qayum M,<sup>U</sup> **Geetha, T**, and 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.
74. Rege S, Mathews S, Qayum M,<sup>U</sup> **Geetha T**, and 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.
75. Zheng C, Mathews S, Qayum M,<sup>U</sup> **Geetha T** and Babu JR (2014). Polyubiquitination of Akt in nerve growth factor signaling. *"Graduate Scholars forum"*, Auburn University, Auburn, AL, USA, March 4, 2014. (Oral Presentation).
76. **Geetha T**, Rege S, Mathews S, Meakin S, Morris M and Babu JR (2014) nerve growth factor receptor TrkA interacts with insulin receptor. *"7th Annual Boshell Diabetes and Metabolic Diseases conference"*, Auburn University, Auburn, AL, USA, February 28, 2014. Abstract No. P021.
77. Wilson D, Rege SD, Kumar S, **Geetha T**, Babu JR and 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.
78. Babu JR, Zheng C, **Geetha, T**, Kluess, H, Singh, N, Diaz-Meco M.T. and Moscat J (2013) Amyloid  $\beta$ -induced neuronal death through p75 receptor is rescued by TRAF6 and p62. *"Research Week"*, Auburn University, Auburn, AL, USA, April 1-4, 2013.
79. Zheng C, **Geetha T**, Gearing M, and Babu JR (2013) A $\beta$  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.
80. **Geetha T**, Rege S, Mathews S, Meakin S, and 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.
81. Rege S, Kumar S, Wilson D, **Geetha T**, Broderick T, and 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.
82. Kumar S, Rege S, Wilson D, **Geetha T**, Broderick T, and 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.
83. **Geetha T**, Zheng C, Broderick T, and 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.
84. 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

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 Hatch funding Program: Epigenetics and Childhood obesity. Role: Principal Investigator, \$543,710 (Oct 1, 2023- Sep 31, 2028).
3. 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).
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. 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).
6. 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).
7. 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).
8. 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].
9. 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).
10. 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).
11. Presidential Awards for Interdisciplinary Research (PAIR) Tier II: Center for Neuroscience. Role: Member of the team, \$637,000. (June 1, 2018-May 31, 2021).
12. 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).
13. 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).
14. 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).

15. 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).
16. Grant-In Aid Award: Scaffolding proteins in insulin signaling. Role: Principal Investigator, \$5,000 (Oct 1, 2015-Sep 30, 2017).
17. Ida Belle Young Faculty Research Award: Cell Culture Facility for Health Sciences Research. Role: Principal Investigator, \$21,426 (Jan 1, 2014-Sep 30, 2014).
18. New Faculty Grant-In Aid: Akt ubiquitination in NGF signaling. Role: Principal Investigator, \$5,000 (Jan 1, 2014-Sep 30, 2015).
19. Dean's Initiative Grant Award: Amyloid beta in TrkA signaling. Role: Principal Investigator, \$2,000 (Oct 1, 2013-Sep 30, 2015).
20. 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).
21. Senior Research Fellowship: University Grants Commission, Delhi, India. Role: Principal Investigator, \$10,000 (July 1, 1997-June 30, 2000).
22. Junior Research Fellowship: University Grants Commission, Delhi, India. Role: Principal Investigator, \$5,000 (July 1, 1995-June 30, 1997).