# Rajashekhar Kanchanapally, PhD

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#### **EDUCATION**

Ph.D.: Chemistry 2015

Jackson State University, Jackson, MS

M.Sc.: Organic Chemistry 2007

Kakatiya University, Warangal, India

B.Sc.: Chemistry, Computer Applications and Biotechnology 2005

Kakatiya University, Warangal, India

## PROFESSIONAL EXPERIENCE

## **Asst. Professor of Chemistry**

2025-Present

Texas A&M University - San Antonio, Department of Natural Science, San Antonio, TX

- > Taught Quantitative Analysis, and General Chemistry courses.
- Mentored undergraduate students in research, providing guidance on experimental design, data analysis, and scientific communication.
- ➤ Held regular office hours and offered additional support through email, special appointments, and review sessions prior to midterm and final exams to enhance student performance.
- > Provided timely feedback by promptly grading and returning assignments.
- ➤ Utilized the Blackboard learning management system extensively to organize course content, assessments, and communication.
- > Established and conducted research projects on the application of nanomaterials in cancer treatment.
- Actively contributed to departmental and university committees.

## **Asst. Professor of Chemistry**

2022-2025

Mississippi Valley State University, Department of Natural Science and Environmental Health, Itta Bena, MS

- ➤ Taught Organic Chemistry, General Chemistry, Chemical Instrumentation, Survey of Physical Sciences, and Chemistry Seminar courses
- > Provided academic advising and research mentoring to students
- > Dedicated office hours for assisting students
- > Promoted students' grades by making myself available outside classroom through email, special appointments, and a special review session before midterm and final exams
- > Promptly returned graded assignments to students
- > Extensively used learning management system the "Canvas"
- > Selected for a MS-INBRE developmental grant
- Established and conducted research involving nanomaterials' application in cancer treatment

- > Took a course titled "Creating an Inclusive and Supportive Learning Environment" offered by the Association of College and University Educators (ACUE)
- ➤ Actively participated in departmental and university committees

## **Asst. Professor of Chemistry**

2020-2022

Tougaloo College, Department of Chemistry and Physics, Tougaloo, MS

- ➤ Taught Organic Chemistry and Biochemistry courses
- > Developed a new "Green Chemistry" course
- > Used visual communication tools along with a conventional molecular model set to help students understand the molecular geometry
- Extensively used learning management systems the "Canvas" and the "Moodle"
- Actively participated in departmental, divisional, and all faculty meetings
- > Developed a research program to develop Exosome-based drug delivery for the eradication of advanced stage breast cancer tumors
- > Submitted a grant to MS-INBRE within the first year of joining

Postdoctoral Fellow 2019-2020

University of Memphis, Department of Chemistry, Memphis, TN

- Non-invasive Raman imaging of circulating exosomes for cancer diagnosis
- > Establishing exosomal markers for early detection of cancers

Postdoctoral Fellow 2016-2019

University of South Alabama, Mitchell Cancer Institute, Mobile, AL

- > Development of exosome-based drug delivery for improved therapeutic efficacy and reduced toxicity
- > Development of a novel nano-formulation for co-delivery of chemo drugs to treat cancer
- > Development of natural product-based metal nanoparticles for combined chemotherapy and photothermal therapy
- ➤ Determination of molecular mechanism in cancer progression

#### **Graduate Research Assistant**

2010-2015

Jackson State University, Department of Chemistry & Biochemistry, Jackson, MS

- Malignant melanoma detection from infected blood by SERS using label-free hybrid graphene oxide
- ➤ Development of a long-range SERS ruler to measure molecular level distances beyond FRET limits
- > Development of graphene oxide based hybrids for sensing of toxic chemicals by SERS
- > Trace level identification of toxic metals and chemicals by nanoparticle based techniques
- > Sensing and selective removal of toxic metal ions from water, using 3-D graphene oxide -based hybrid nanomaterials
- > Drug delivery using protein-based nanoparticles
- ➤ Cancer cells imaging and photothermal therapy using Gold, Iron oxide and Ag-Au alloy nanoparticle based techniques
- Efficient removal and effective killing of multiple drug resistant bacteria using graphene oxide membrane
- > Cancer cells imaging and photothermal therapy using graphene oxide-based hybrid nanomaterials
- > Cancer cell imaging and photothermal therapy using CNT based hybrid nanomaterials

- ➤ Development of 2D graphene oxide based magnetic nano platforms for isolation, detection and combined therapy of different cancer cells
- ➤ Development of 2D graphene oxide based plasmonic-magnetic nano platforms for separation and identification of Alzheimer's disease biomarker

Teaching Assistant 2011-2013

Jackson State University, Department of Chemistry & Biochemistry, Jackson, MS

Fall 2011: CHML 141 (TA: Under Graduate General Chemistry lab)

Fall 2012: CHML 141 (TA: Under Graduate General Chemistry lab)

Spring 2013: CHML 241 (TA: Under Graduate Organic Chemistry lab)

- > Created writing assignments for students to encourage student involvement in the course
- ➤ Held special sessions for students with weak mathematical background
- > Dedicated office hours for assisting students
- > Promoted students grades by making myself available outside class room through email, special appointments, and a special review session before midterm and final exams
- Assisted in the development of course content and evaluated student performance
- Participated in weekly review of the TA course, where I interacted with fellow TAs to discuss the week's targets and challenges
- > Promptly returned graded assignments to students
- > Received excellent evaluations from my students and supervisors
- ➤ Participated in "Institutional Change through Faculty Advancement in Instruction and Mentoring" (May 11-15, 2015) workshop offered by the Jackson State University

# **Student Mentoring in Research Lab**

2011-Present

Mentored high school and undergraduate students during the summer semesters of five consecutive years (2011-2015). As an Asst. Professor, I continued mentoring summer, undergraduate, and graduate students. My role as a mentor is to help students smoothly execute their day-to-day tasks to successfully finish their projects. As each student works on a different project, it is important for me to train them to efficiently complete their respective projects. Safety is always the top priority under my supervision. I am always available to my lab members whenever they need my help.

Quality Analyst 2007-2009

Dr. Reddy's Laboratories, API manufacturing unit, Hyderabad, India

- ➤ Quality analysis of raw material, in-process goods, finished products, water samples
- > Stability study of finished products
- ➤ Calibration of balances, FTIR, UV-Vis spectrophotometer, HPLC, GC, Karl Fischer titrator, Potentiometric titrator and Malvern mastersizer
- Maintenance of lab, equipment as per cGMP/GLP
- ➤ Maintenance of customer product specifications
- Making sure that shipments conform to specifications through procedures

#### **Synthetic Skills**

- > Synthesis and surface modification of various nanoparticles
- > Chemical modification of Graphene and SWCNT

- ➤ Graphene-nanoparticle/SWCNT-nanoparticle hybrid preparation
- > DNA origami (DNA self-assembly)
- > Liposome synthesis

## Biological, Imaging and Analytical Skills

- Surface Enhanced Raman Spectroscopy (SERS)
- > TEM
- > SEM
- > Immunoblotting
- ➤ UV/Vis
- > DLS
- > NTA
- > AAS
- > FTIR

- > HPLC
- ➤ GC Cell/Bacteria culture
- > RT-PCR
- ➤ Cell proliferation assays
- > Staining
- > Fluorescence Microscopy
- Imaging
- > ELISA
- Nanodrop

#### **PUBLICATIONS**

# Peer-reviewed journal articles:

Total No. of publications: 23

**Total No. of citations: 1755** 

h-index: 20

- 1. Cancer Cell-Derived Exosomes as the Delivery Vehicle of Paclitaxel to Inhibit Cancer Cell Growth. **Kanchanapally, R.\***; and K. Brown. *J Cancer Discovery* 2022, 1, 49.
- **2.** Exosomal Formulation Escalates Cellular Uptake of Honokiol Leading to the Enhancement of Its Antitumor Efficacy. **Kanchanapally, R.;** Khan, M. A.; Deshmukh, S. K.; Srivastava, S.K.; Khushman, M.; Singh, S.; Ajay Pratap Singh. *ACS Omega* 2020, 5, 23299.
- **3.** Epigallocatechin Gallate-Gold Nanoparticles Exhibit Superior Antitumor Activity Compared to Conventional Gold Nanoparticles: Potential Synergistic Interactions. Chavva, S.R.; Deshmukh, S.K.; **Kanchanapally, R.;** Tyagi, N.; Coym, J.W.; Singh, A.P.; Singh, S. *Nanomaterials* 2019, 9 (3), 396.
- **4.** Drug-loaded exosomal preparations from different cell types exhibit distinctive loading capability, yield, and antitumor efficacies: a comparative analysis. **Kanchanapally, R.;** Deshmukh, S. K.; Chavva, S. R.; Tyagi, N.; Srivastava, S. K.; Patel, G. K.; Singh, A. P.; Singh, S. *Int J Nanomedicine* 2019, 14, 531-541.
- **5.** Multifunctional Three-Dimensional Chitosan/Gold Nanoparticle/Graphene Oxide Architecture for Separation, Label-Free SERS Identification of Pharmaceutical Contaminants, and Effective Killing of Superbugs Jones, S.; Pramanik, A.; **Kanchanapally, R.;** Viraka Nellore, B. P.; Begum S.; Sweet, C.; and Ray, P. C. *ACS Sustainable Chem. Eng.*, 2017, *5* (8), 7175–7187
- **6.** Hybrid Theranostic Platform for Second Near-IR Window Light Triggered Selective Two-Photon Imaging and Photothermal Killing of Targeted Melanoma Cells Tchounwou, C.; Sinha, S. S.; Viraka Nellore, B. P.; Pramanik, A.; **Kanchanapally, R.;** Jones, S.; Chavva, S. R.; Ray, P. C. *ACS Appl. Mater. Interfaces* 2015, 7 (37), 20649–20656.

- Bio-Conjugated CNT-Bridged 3D Porous Graphene Oxide Membrane for Highly Efficient Disinfection of Pathogenic Bacteria and Removal of Toxic Metals from Water Viraka Nellore, B. P.; Kanchanapally, R.; Pedraza, F.; Sinha, S. S.; Pramanik, A.; Hamme, A. T.; Arslan, Z.; Sardar, D.; Ray, P. C. ACS Appl. Mater. Interfaces 2015, 7 (34), 19210–19218.
- **8.** Hybrid Graphene Oxide Based Plasmonic-Magnetic Multifunctional Nanoplatform for Selective Separation and Label-Free Identification of Alzheimer's Disease Biomarkers Demeritte, T.; Viraka Nellore, BP.; **Kanchanapally, R.**; Sinha, S. S.; Pramanik, A.; Chavva, S. R.; Ray P. C. *ACS Appl. Mater. Interfaces*, 2015, *7*(24), 13693-13700.
- **9.** Antimicrobial Peptide-Conjugated Graphene Oxide Membrane for Efficient Removal and Effective Killing of Multiple Drug Resistant Bacteria **Kanchanapally, R.**; Viraka Nellore, BP.; Sinha, S.S.; Pedraza, F.; Jones, S.; Pramanik, A.; Chavva, S. R.; Tchounwou, C.; Shi, Y.; Vangara, A.; Sardar, D.; Ray. P. C. *RSC Adv.* 2015, *5*, 18881-18887.
- **10.** Long Range Two-Photon Scattering Spectroscopy Ruler For Screening Prostate Cancer Cells Sinha, S.S.; Paul, D.; **Kanchanapally, R.**; Pramanik, A.; Chavva, S. R.; Viraka Nellore, BP.; Jones, S.; Ray. P. C. *Chem. Sci.*, 2015, 6, 2411-2418.
- 11. Aptamer-Conjugated Graphene Oxide Membranes for Highly Efficient Capture and Accurate Identification of Multiple Types of Circulating Tumor Cells Viraka Nellore, BP; **Kanchanapally**, **R.**; Pramanik, A.; Sinha, S. S.; Chavva, S. R.; Hamme, II, A.; Ray P. C. *Bioconjugate Chem.*, 2015, 26(2), 235-242.
- **12.** Accurate Identification and Selective Removal of Rotavirus Using a Plasmonic–Magnetic 3D Graphene Oxide Architecture. Fan, Z.; Yust, B.; Viraka Nellore, BP; Sinha, S. S.; **Kanchanapally, R**.; Crouch, R. A.; Pramanik, A.; Chavva, S. R.; Sardar, D.; Ray, P. C. *J. Phys. Chem. Lett.* 2014, *5*, 3216–3221
- **13.** Theranostic Graphene Oxide for Prostate Cancer Detection and Treatment. Chavva, S. R.; Pramanik, A.; Nellore, B. P. V.; Sinha, S. S.; Yust, B.; **Kanchanapally, R.**; Fan, Z.; Crouch, R. A.; Singh, A. K.; Neyland, B.; Ray, P.C. *Part. Part. Syst. Charact.* 2014, *31*, 1252-1259.
- **14.** Graphene Oxide–Gold Nanocage Hybrid Platform for Trace Level Identification of Nitro Explosives Using a Raman Fingerprint. **Kanchanapally, R.**; Sinha, S. S.; Fan, Z.; Dubey, M.; Zakar, E.; Ray, P. C. *J. Phys. Chem. C* 2014, *118*, 7070–7075.
- **15.** Aptamer-Conjugated Theranostic Hybrid Graphene Oxide with Highly Selective Biosensing and Combined Therapy Capability. Viraka Nellore, B. P.; Pramanik, A.; Chavva, S. R.; Sinha, S. S.; Robinson, C.; Fan, Z.; **Kanchanapally, R.**; Grennell, J.; Weaver, I.; Hamme, A. T.; Ray, P.C. *Faraday Discuss* 2014, *175*, 257-271.
- **16.** Multifunctional Hybrid Graphene Oxide for Label-Free Detection of Malignant Melanoma from Infected Blood. **Kanchanapally, R.**; Fan, Z.; Singh, A. K.; Sinha, S. S.; Ray, P. C. *J. Mater. Chem. B* 2014, *2*, 1934–1937.
- 17. Hybrid Graphene Oxide Based Ultrasensitive SERS Probe for Label-Free Biosensing. Fan, Z.; Kanchanapally, R.; Ray, P. C. *J. Phys. Chem. Lett.* 2013, 4, 3813–3818.
- **18.** Development of a Long-Range Surface-Enhanced Raman Spectroscopy Ruler. Singh, A. K.; Khan, S. A.; Fan, Z.; Demeritte, T.; Senapati, D.; **Kanchanapally, R.**; Ray, P. C. *J. Am. Chem. Soc.* 2012, *134*, 8662–8669.

- **19.** A Gold nanocage—CNT Hybrid for Targeted Imaging and Photothermal Destruction of Cancer Cells. Khan, S. A.; **Kanchanapally, R.**; Fan, Z.; Beqa, L.; Singh, A. K.; Senapati, D.; Ray, P. C. *Chem. Commun.* 2012, 48, 6711–6713.
- **20.** Length Dependent NLO Properties of 2D Hollow Gold Nanoprisms Formed by Guided Assembly. Senapati, D.; Senapati, T.; Wate, P. S.; **Kanchanapally, R.**; Fan, Z.; Singh, A. K.; Ray, P. C. *Chem. Commun.* 2012, 48, 6034–6036.
- **21.** Synthesis of Highly Fluorescent Water-Soluble Silver Nanoparticles for Selective Detection of Pb(II) at the Parts per Quadrillion (PPQ) Level. Singh, A. K.; **Kanchanapally, R.**; Fan, Z.; Senapati, D.; Ray, P. C. *Chem. Commun.* 2012, 48, 9047–9049.
- **22.** Highly Efficient SERS Substrate for Direct Detection of Explosive TNT Using Popcorn-Shaped Gold Nanoparticle-Functionalized SWCNT Hybrid. Demeritte, T.; **Kanchanapally, R.**; Fan, Z.; Singh, A. K.; Senapati, D.; Dubey, M.; Zakar, E.; Ray, P. C. *Analyst* 2012, *137*, 5041–5045.
- 23. Highly Selective SERS Probe for Hg(II) Detection Using Tryptophan-Protected Popcorn Shaped Gold Nanoparticles. Senapati, T.; Senapati, D.; Singh, A. K.; Fan, Z.; Kanchanapally, R.; Ray, P. C. *Chem. Commun.* 2011, 47, 10326–10328.

# Profile in Google Scholar

https://scholar.google.com/citations?user=npQMWRgAAAAJ&hl=en&oi=ao

#### **Book Chapters:**

- 1. "The Potential of Antimicrobial Peptides in Breast Cancer Treatment". Viraka Nellore, BP.; Kanchanapally, R. Antimicrobial Peptides: Functions, Mechanisms of Action and Role in Health and Disease. Nova Science Publishers, NY.
- 2. "Antimicrobial Peptide-Modified Nanomaterials for Detection and Extermination of Bacteria". **Kanchanapally, R.**; Shodubi, O. P.; Okanlawon, M. R.; Viraka Nellore, B. P. *Antimicrobial Peptides: Functions, Mechanisms of Action and Role in Health and Disease*. Nova Science Publishers, NY.
- **3.** "Two-Dimensional Graphene Material for Food Pathogen Diagnosis". Viraka Nellore, BP.; **Kanchanapally, R.**; Demeritte, T.; Ray, P. C. Food Poisoning: Outbreaks, Bacterial Sources and Adverse Health Effects. Nova Science Publishers, NY.
- **4.** "Detection of Melamine from Food in Parts per Quadrillion Level Using Functionalized Graphene Oxide-Gold Nanoparticle Hybrid SERS Platform". **Kanchanapally, R.**; Fan, Z.; Wesley, W.; Viraka Nellore, BP.; Crouch, R. A.; Sinha, S. S.; Pramanik, A.; Chavva S. S.; Ray, P.C. *Food Poisoning: Outbreaks, Bacterial Sources and Adverse Health Effects.* Nova Science Publishers, NY.
- 5. "Bioconjugated Gold Nanoparticle for Rapid Capture and Targeted Photothermal Lysis of Pathogenic Bacteria". Ray, P.C.; Khan, S. A.; Singh A. K.; Senapati D.; Fan, Z.; Demeritte, T.; Kanchanapally, R.; In *Nanomaterials for Biomedicine*; ACS Symposium Series; American Chemical Society.

#### **CONFERENCE PRESENTATIONS:**

1. Highly Selective Label Free SERS Probe for Hg(II) Detection Using Tryptophan-Protected Popcorn

- Shaped Gold Nanoparticles. **Kanchanapally, R.;** Senapati, T.; Senapati, D.; Singh, A. K.; Fan, Z.; Ray, P. C. 8th International Symposium on Recent Advances in Environmental Health Research, Jackson, Mississippi. **2011**
- 2. Hybrid CNT/gold nanomaterial for targeted imaging and photothermal destruction of biomolecules. **Kanchanapally, R.;** Khan, S. A.; Fan, Z.; Beqa, L.; Singh, A. K.; Senapati, D.; Ray, P. C. 245<sup>th</sup> American Chemical Society National Meeting & Exposition, New Orleans, Louisiana. 2013
- 3. Selective detection and photothermal therapy of cancer cells using iron core gold shell nanoparticle-SWCNT hybrid nanostructures. Viraka Nellore, B. P.; Fan, Z.; Kanchanapally, R.; Ray, P. C., and Hamme, A. T. MAS 77<sup>th</sup> Annual Meeting in the Chemistry and Chemical Engineering Division, Hattiesburg, Mississippi. 2014
- **4.** Synthesis and characterization of hybrid graphene oxide for chemical toxin detection. **Kanchanapally, R.;** Fan, Z.; Wesley, W.: and Ray, P. C. 247<sup>th</sup> American Chemical Society National Meeting & Exposition, Dallas, Texas. **2014**
- **5.** Multifunctional hybrid graphene oxide for label-free detection of malignant melanoma from infected blood. **Kanchanapally, R.;** Fan, Z.; Singh, A. K.; Sinha, S.S.; and Ray, P. C. 14<sup>th</sup> Southern School on Computational Chemistry& Material Science Conference, Jackson, Mississippi. **2014**
- **6.** Aptamer-Conjugated Graphene Oxide Membranes for Highly Efficient Capture and Accurate Identification of Multiple Types of Circulating Tumor Cells. **Kanchanapally, R.;** Viraka Nellore, B. P.; and Ray, P. C. 15<sup>th</sup> Southern School on Computational Chemistry& Material Science Conference, Jackson, Mississippi. **2015**
- 7. Porous 3-D Graphene Oxide Membrane for Efficient Separation of Multiple Drug Resistant Bacteria and Circulating Tumor Cells. **Kanchanapally, R.;** Viraka Nellore, B. P.; and Ray, P. C. *5th Annual Lester Andrew's Symposium,* Starkville, Mississippi. 2015
- **8.** Membrane nanoparticle-based delivery of Doxorubicin for improved therapeutic efficacy. **Kanchanapally, R.;** Deshmukh S. K.; Chavva, S. R.; Tyagi, N.; Al-Ghadhban, A.; Singh, A. P.; and Singh S. 5<sup>th</sup> Annual Nano Bio Summit, Atmore, Alabama. **2017**
- 9. Epigallocatechin gallate-gold nanoparticles exhibit superior anti-tumor activity than conventional gold nanoparticles: potential synergistic interactions. Chavva, S. R.; Deshmukh S. K.; **Kanchanapally, R.;** Tyagi, N.; Al-Ghadhban, A.; Singh, A. P.; and Singh S. 5<sup>th</sup> Annual Nano Bio Summit, Atmore, Alabama. 2017
- **10.** Drug-loaded exosomal preparations from different cell types exhibit distinctive loading capability, yield, and anti-tumor efficacies: a comparative analysis **Kanchanapally R.**; Deshmukh S. K.; Chavva S. R.; Tyagi N.; Srivastava S. K.; Patel G. K.; Singh A. P.; Singh S. *12<sup>th</sup> Annual College of Medicine Research Forum*, Mobile, Alabama. **2018**
- **11.** EGCG-gold nanoparticles exhibit superior anti-tumor activity than conventional gold nanoparticles or EGCG. Chavva S. R.; Deshmukh S. K.; **Kanchanapally R.;** Tyagi N.; Coym J. W.; Singh A. P.; Singh S. 12<sup>th</sup> Annual College of Medicine Research Forum, Mobile, Alabama **2018**
- **12.** Comparative analyses of drug-loaded exosomal preparations from different cell types reveal distinctive loading capability, yield, and anti-tumor efficacies. **Kanchanapally, R.;** Deshmukh, S. K.; Chavva, S. R.; Srivastava, S. K.; Patel, G. K.; Singh, A. P.; Singh, S. *American Association for Cancer Research Annual Meeting*, Atlanta, Georgia. **2019**

- 13. Epigallocatechin gallate-Gold Nanoparticles Exhibit Superior Anti-tumor Activity than Conventional Gold Nanoparticles: Potential Synergistic Interactions. Chavva, S. R.; Deshmukh, S. K.; Kanchanapally, R.; Tyagi, N.; Coym, J. W.; Singh, A. P.; Singh, S. American Association for Cancer Research Annual Meeting, Atlanta, Georgia. 2019
- **14.** Entrapment of Honokiol in exosomes enhances its antitumor activity. **Kanchanapally, R.** *Mississippi Academy of Sciences Annual Meeting*, Biloxi, MS. **2021**
- 15. Exosomes for efficient delivery of cancer therapeutics. Kanchanapally, R. Mississippi Academy of Sciences Annual Meeting, Biloxi, MS. 2022

#### **AWARDS**

1.	Mississippi INBRE Developmental Research Grant (\$200,000) (Selected but didn't accept due to	
	technical reasons)	2024
2.	Mississippi INBRE Developmental Research Grant (\$300,000)	2020
3.	Travel award to attend American Association for Cancer Research Annual Meeting, Atlanta, GA	2019
4.	Travel award to attend Nanobio Summit, Atmore, AL	2017
5.	Second place in graduate poster presentation during the 15 <sup>th</sup> Southern School on Computational Che and Material Science Conference	mistry 2015
6.	Travel award to attend 5 <sup>th</sup> Annual Andrews Graduate Symposium at Mississippi State Univ Starkville, MS	versity, <b>2015</b>
7.	First place in graduate poster presentation during the 14 <sup>th</sup> Southern School on Computational Che and Material Science Conference	mistry 2014
8.	Travel award to attend 247 <sup>th</sup> American Chemical Society National Meeting & Exposition at Dallas	s, TX <b>2014</b>
9.	Travel award to attend 245 <sup>th</sup> American Chemical Society National Meeting & Exposition at New O LA	rleans,
10	Full scholarship for PhD	2010

#### PROFESSIONAL MEMBERSHIP

- ➤ American Chemical Society (ACS)
- ➤ American Association for Cancer Research (AACR)
- ➤ Mississippi Academy of Science (MAS)

#### **OUTREACH ACTIVITIES:**

- > Served as a judge for Mississippi Science and Engineering Fair Region-II (2011-2015)
- > Participated in raising funds for Making Strides of South Alabama-2016