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Venugopalan Cheriyaath, Associate Professor
2600, S Neal Street, Commerce
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02	Education & Academic Appointments	• At TAMUC Brought \$434,097 in Grants & Awards.
03	Training, Fellowships, & Employment	• 2016 Texas A&M University-Commerce Mentor of the Year Award
03	Honors, Awards, and Recognition	• 2015 Paul W. Barrus Distinguished Faculty Award for Teaching.
06	Professional Society Memberships	• 2014 TAMUC Junior Faculty Award for Excellence in Research.
06–13	University Teaching	• 2013 National Academies Education Fellow in the Life Sciences.
06	Texas A&M University-Commerce	• 2012 TAMUC Outstanding Faculty Research Presentation (First Place).
07	Texas A&M University-Commerce	• 27 publications in high impact journals and 66 papers in conferences.
07	Thesis Supervision	• Developed and 4 undergraduate, 5 graduate & 2 laboratory courses with high ratings from students.
10	Professional Paper supervision	• Supervised 6 masters, 5 honors theses, and 5 McNair Scholars.
10	Sponsorship of Students & Fellows	• Sponsor of Gamma Delta chapter of TriBeta National Biological Honor Society.
13–33	Scholarship/Creative Achievements	• Advisor of Pre-med-, undergraduate- and graduate students.
14	Extra and Intramural Research Grants	• Academic editor of PlosONE and Reviewer Stem cell Biology Book.
17	Invited Lectures & Speeches	• Founder and Director of BioPride program, a head start orientation program for freshmen.
18	Publications	• Outstanding track record in student success and professional development.
18	Referred Journal Articles	
21	Non-Referred Publications	
33–38	Professional Service	
33	IBC Chair	
34	Director of BioPride	
34	Chair of University, College and Departmental Committees	
34	Member of University, College and Departmental Committees	
36	Sponsorship of Student Organizations	
36	Community Outreach Activities	
37	Editorship and Peer Reviewing	
37	Professional Development	
38	Professional Collaborations	

CURRICULUM VITAE**Venugopalan Cheriyath, M.Sc., Ph.D.**

January 20, 2022

CURRENT POSITION**Texas A&M University-Commerce, TX**

Associate Professor, Department of Biological and Environmental Sciences (2017 September)

Assistant Professor, Department of Biological and Environmental Sciences (2011-present)

Tenure Year : 2017

MAILING ADDRESS

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Department of Biological and Env'tal Sciences

Texas A&M University-Commerce, TX, 75428

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E-MAIL: Venu_cheriyath@tamuc.edu**PERSONAL**

Marital Status: Married to Maya K. Puthenveetil

Children: Karthika Venugopalan (Student, University of Texas, Dallas, TX)

Kavya Venugopalan (Student, Rockwall High School, Rockwall, TX)

Resident Status: Permanent Resident

EDUCATION**INSTITUTION AND LOCATION****DEGREE****YEAR**

Tufts University of School of Medicine, Boston, MA

Postdoctoral, Mol. Biology

1999

Indian Agricultural Research Institute, New Delhi, India

Ph.D., Biochemistry

1997

Attended: 09/16/1992–03/31/1996

Minors: Molecular Biology

Degree Awarded: 02/07/1997

and Biotechnology,

Genetics, and Microbiology

Indian Agricultural Research Institute, New Delhi, India

M.Sc., Biochemistry

1993

Attended: 09/10/1990–09/15/1992

Minor: Molecular Biology

Degree Awarded: 02/12/1993

and Biotechnology

Kerala Agricultural University, Vellanikkara, India

B.Sc., Agriculture

1990

*Attended: 10/1984–08/1989, Degree Awarded:**03/1990***THESES**

Ph.D. Thesis

"Purification of Poly(A)-Binding Protein from Chickpea Epicotyls (*Cicer Arietinum*)," Fall 1996, Advisor: Harish C. Kapoor, Ph.D.

M.Sc. Thesis “Homeostatic Control of Cholesterol and Fatty Acid Composition of Rat Liver,” Summer 1992, Advisor: K. N. Srivastava, Ph.D.

EXECUTIVE TRAINING

- Certificate in Supervisory Leadership, Graduate School of Management, Cleveland State University, Cleveland, OH,, One month intensive training program on supervisory leadership skills (2003)
- Dynamic Goal Setting, Cuyahoga Community College, Cleveland, OH (2003)
- Performance Management Training, Cuyahoga Community College, Cleveland, OH (2002)

FELLOWSHIPS

- NIH Postdoctoral Fellowship, Tufts University School of Medicine, Boston, MA (1996-1999)
Sponsor: Dr. Ananda L. Roy
- Doctoral Senior Research Fellowship, Council of Scientific and Industrial Research (1995-96)
- Doctoral Junior Reserach Fellowship, Indian Agricultural Research Institute (1993-95)
- Graduate Reserach Fellowship, Indian Agricultural Research Institute (1991-93)

EMPLOYMENT

I. Academic Positions

2017.9– Present Associate Professor
Department of Biological and Environmental Sciences, Texas A&M University -
Commerce, TX

2011-2017.9 Assistant Professor (Tenure Track)
Department of Biological and Environmental Sciences, Texas A&M University -
Commerce, TX

II. Research Positions

2004-2011 Project Scientist / Research Assistant Professor
Department of Translational Hematology and Oncology Research Taussig
Cancer Institute, The Cleveland Clinic, Cleveland, OH

2004-2004 Senior Scientist
Department of Molecular Biology, Athersys Inc., Cleveland, OH

2001-2004 Scientist
Department of Molecular Biology, Athersys Inc., Cleveland, OH

1999-2001 Research Associate
Tufts University School of Medicine, Program in Immunology, Boston, MA

PROFESSIONAL HONORS, AWARDS, AND RECOGNITION

- Organizing committee member of Cancer Malaysia 2019 meeting and co-chaired a scientific section (November 18-19, 2019)
- Listed in Who’s Who in America and Who is Who in World, The Marquis Who’s Who Publication Board (2017-2018)

- Outstanding Mentor Award – 2016, Texas A&M University-Commerce Excellence in Research and Sponsored Programs Award
- Paul W. Barrus Distinguished Faculty Award for Teaching (2015)
- Texas A&M University-Commerce Junior Faculty Award for Excellence in Research (2014)
- Mentored students won 1st, 2nd, and 3rd prize awards at regional and local Scientific meetings (2012-2017).
- Fellow of National Academies Education in the Life Sciences (2013)
- Outstanding Faculty Research Presentation award in Texas A&M University-Commerce Annual Research Symposium (2012)
- An undergraduate student from my laboratory won the top5% award at the
- ISICR Seymour Milstein Travel award to attend ISICR meeting in Montreal, Canada (2008)
- Scott Hamilton CARES Research Scholar Award (2008)
- ISICR Seymour Milstein Travel award to attend meeting in Oxford, London (2007)
- Keystone Symposia Travel Fellowship (2001)
- Doctoral thesis was selected for director's gold medal competition (1996)
- Indian Council for Scientific and Industrial Senior Research Fellowship (1994-96)
- Third Rank in All India National Agricultural Research Service Examination (1995)
- Third Rank in All India National Eligibility Test (NET) for Lectureship (1995)
- Indian Agricultural Research Institute Senior Research Fellowship (1993-94)
- Indian Agricultural Research Institute Junior Research Fellowship (1991-93)

ACADEMIC AND PROFESSIONAL RECOGNITION OF MENTORED STUDENTS

- Madeleine Morris won 1st place in the Graduate Life Science/Biomedical Sciences Section at 16th Texas A&M University-Commerce Annual Research Symposium (2019).
- Anne Davenport won 3rd place in the Science, Technology, Engineering and Math category at the 10th Annual Federation Graduate Student Research Symposium (2019)
- Madeleine Morris won 1st place in Undergraduate oral presentation in Science and Engineering and overall winner at Texas A&M University-Commerce Annual Research Symposium (2019).
- Monekah Ammouri won 1st place in Undergraduate poster presentation in Science and Engineering at Texas A&M University-Commerce Annual Research Symposium (2019)
- Madeleine Morris represented TAMUC at the Undergraduate Reserach Day at the Capitol, Austin, TX (2019)
- Monekah Ammouri, won 2nd place in Undergraduate Life Science Category at the Texas A&M System 15th Annual Pathways Student Research Symposium (2018)
- Nobel Chowdhury won 2nd place in Master's Life Science Category at the Texas A&M System 14th Annual Pathways Student Research Symposium (2017)
- Noor Faisal won 2nd place in Undergraduate Agriculture Category at the Texas A&M System 14th Annual Pathways Student Research Symposium (2017)

- Sirisha Chakkapalli won 3rd place in the Science, Technology, Engineering and Math category at the 8th Annual Federation Graduate Student Research Symposium (2017)
- Nobel Chowdhury won 3rd place in the Science, Technology, Engineering and Math category at the 8th Annual Federation Graduate Student Research Symposium (2017)
- Harmanpreet Kaur won 1st place in Undergraduate poster presentation at Texas A&M University Annual Research Symposium (2017)
- Bernadette Peltier won 2nd place in Undergraduate poster presentation at Texas A&M University Annual Research Symposium (2017)
- Bernadette Johnson won 1st place in Undergraduate Oral presentation at Texas A&M University Annual Research Symposium (2017)
- Anna Bowsher won 1st place in graduate poster presentation at Texas A&M University Annual Research Symposium (2017)
- Sirisha Chakkapalli won 1st place in graduate poster presentation at Texas A&M University Annual Research Symposium (2017)
- Nobel Chowdhuri won 1st place in graduate poster presentation at Texas A&M University-Commerce Annual Research Symposium (2017)
- Bernadette Johnson represented TAMUC at the Undergraduate Reserach Day at the capitol (2017)
- Bernadette Johnson, an honors student graduated with highest honors (2017)
- Bernadette Peltier, an honors student graduated with highest honors (2017)
- Anna Bowsher, an honors scholar graduated with highest honors (2016)
- Jaspreet Kaur won the best undergraduate poster award (1st place) at the Texas A&M University-Commerce, 2016 Annual Reserach symposium (2016)
- Swati Balluri won the best graduate poster award (1st place) at the Texas A&M University-Commerce, 2016 Annual Reserach symposium (2016)
- Swati Balluri won the best graduate poster award in life science and the overall graduate poster award at the Texas A&M System 12th Annual Pathways Student Research Symposium (2015)
- Megan Miller won the best poster award (1st prize) at the North Texas Area Universities Graduate Student Research Symposium (2015)
- Simbarazhe Mazambani won the 3rd prize at the North Texas Area Universities Graduate Student Research Symposium (2015)
- Kailee Johnson, an honors scholar graduate with highest honors (2015)
- Kailee Johnson was selected and represented Texas A&M University-Commerce at the 2015 Texas Undergraduate Research Day at the Capitol (2015)
- Kailee Johnson won the best undergraduate poster award (1st place) at the Texas A&M University-Commerce, 2015 Annual Reserach symposium (2015)
- Alexis Bivona won the best graduate poster award (1st place) at the Texas A&M University-Commerce, 2015 Annual Reserach symposium (2015)
- Anne Davenport won the best poster award (1st prize) at the North Texas Area Universities Graduate Student Research Symposium (2014)

- Megan Miller won the 2nd prize at the North Texas Area Universities Graduate Student Research Symposium (2014)
- Lalitha Gaddipati won the 3rd prize at the North Texas Area Universities Graduate Student Research Symposium (2014)
- Sravan Vemuri won the best undergraduate poster award (1st place) at the Texas A&M University-Commerce, 2014 Annual Reserach symposium (2014)
- Sravan Vemuri, an honors scholar graduated with high honor (2014)
- Simbarashe Mazambani, an honors scholar graduated with high honor (2014)
- Megan Miller won the 2nd prize in graduate student category at North Texas Life Science Research Symposium (2013)
- Meng Sun won the 3rd prize in undergraduate student category at North Texas Life Science Research Symposium (2013)
- Ashjan Khalel won the 2nd best graduate poster award at the Texas A&M University-Commerce, 2013 Annual Reserach symposium (2013)
- Sravan Vemuri was selected and represented Texas A&M University-Commerce at the 2013 Texas Undergraduate Research Day at the Capitol (2013)
- Ashjan Khalel won Top 5% award in graduate student category at the 10th Texas A&M System Annual Pathways Student Research Symposium (2012)
- Sravan Vemuri won Top 5% award in undergraduate category at the 10th Texas A&M System Annual Pathways Student Research Symposium (2012)

PROFESSIONAL SOCIETIES

- International Society of Interferon and Cytokine Research (2019–2022)
- American Society for Cell Biology (2013–2019)
- Beta Beta Beta, Biological Honors Society, Sponsor at Texas A&M University-Commerce (2013–2019)
- Texas Academy of Sciences (2013–2016)
- American Association of Cancer Research (2004–2013)
- International Society of Interferon and Cytokine Research (2005–2013)
- American Society for Biochemistry and Molecular Biology (2000–2013)
- Society for Plant Biochemistry and Biotechnology (1995–Current)

TEACHING EXPERIENCE

Texas A&M University-Commerce

- BSc 303 Cell Biology, 4 cr. (Fall and Spring Semesters 2011 through 2020)
- BSc 304 GLB/Genetics, 4 cr. (Spring 2012, 2013, 2015, and 2016)
- BSc 301 Biological Literature, 3 cr. (Spring 2012, Fall 2014, and 2016, Fall 2017 & 2019)
- BSc 431 Eukaryotic Cell Biology, 3 cr. (Fall 2013 & 2017)
- BSc 405 Internship, 3 cr. (Fall 2012)
- BSc 489 Molecular mechanisms of G1P3 in breast cancer, 3 cr. (Spring 2012)
 - Clinical significance of interferon stimulated genes, 3 cr. (Spring 2012)

- Protein kinase C and epigenetics, 3 cr. (Summer II 2012)
- Interferon stimulated genes, 3 cr. (Fall 2012)
- Interferon and intracellular Ca²⁺ signaling, 3 cr. (Spring 2013)
- Histone modifying enzymes in breast cancer, 3 cr. (Fall 2013)
- Role of maspardin in neuronal cell survival, 3 cr. (Fall 2014)
- Internship, 3 cr. (Summer I and II 2015)
- Retrograde mitochondrial signaling, 3 cr. (Spring 2016)
- Gene Regulation, 3 cr. (Fall 2016)
- Role of ROS in PTSD (Fall 2017)
- BSc 490 Honors Thesis, 3 cr. (Several semesters)
- BSc 491 Honors Readings, 3 cr. (Several semesters)
- BSc 497 Gene Regulation, 3 cr. (Fall 2012, Spring 2019)
- BSc 513 Genetic Analysis, 3 cr. (Summer 2013 and Spring 2016)
- BSc 513 Molecular Genetics, 3 cr (Summer I 2019)
- BSc 515, Advanced Cell Biology, 3 cr. (Spring 2013, Fall 2014, Fall 2016, Spring 2017&2019)
- BSc 517 GLB/Stem Cell Biology, 3 cr. (Fall 2013, 2015, Summer 2014, 2016, Fall 2017&2019)
- BSc 519 Advanced Gene Regulation, 3 cr. (Fall 2014, 2016, & 2019)
- BSc 521 Epigenetics, 3 cr. (Spring 2014, 2016, Summer 2018, Spring 2020)
- BSc 518 Thesis, 3 cr. (Several semesters)
- BSc 589 Molecular mechanisms of G1P3 in breast cancer, 3 cr. (Spring 2012)
 - G1P3-Cytoskeletal interaction and cancer, 3 cr. (Fall 2012)
 - Phytoestrogens and breast cancer, 3 cr. (Spring 2013)
 - Advanced Cell Biology, 3 cr. (Summer 2013 and 2015)
 - Phytoestrogen interconversion, 3 cr. (Fall 2013)
 - Role of G1P3 in regulating Bcl-2 family proteins (Fall 2014)
 - G1P3 and mitochondrial redox regulation (Spring 2015)
 - Genetic analysis (Spring 2015)
 - Erythroleukemia and Epo (Fall 2017)
 - Mitochondrial functions of G1P3 (Summer II, 2019)
- BSc 595 Reserach Literature and Techniques, 3 cr. (Several semesters)
- BSc 597 Stem Cells and Regenerative Medicine, 3 cr (Summer II 2012)
 - Genetics and Epigenomics, 3 cr. (Fall 2012)
 - Gene Regulation, 3 cr. (Fall 2012)
 - Genetic Engineering, 3. Cr (Summer 2017)
- PLS 489 Independent studies 3 cr. (Summer I and II 2012)

Cleveland State University

- Radiation Biology, 2 cr, Guest lecturer, Department of Physics (2010, and 2011)

THESIS SUPERVISORY EXPERIENCE

Chaired seven masters and five undergraduate honors theses; was a thesis committee member in one masters and three honors theses. One doctoral, five masters and six honors theses are in progress.

Doctoral Thesis

In Progress:

1. Anne Davenport (Molecular Biology Doctoral Candidate from Texas Woman's University/Federation of North Texas Area Universities doing her thesis work in my laboratory), Role of G1P3-induced retrograde signals in neuronal cell functions, (Role: Committee Member).

Completed:

1. Jessica Guerrero, Instructional practices within secondary sciences that prepare students for success in post-secondary life science courses at two community colleges in North Texas, Fall 2019 (Role: Committee Member).

Master's Theses

In Progress:

1. Madeleine Morris, Abnormal survival pathways confer erythropoietin- independent survival and proliferation in erythroleukemia progenitor cells, Proposal: Fall 2019 (Role: Chair)

Completed:

1. Mathew Gonzales, Optimizing human cardiac reprogramming factors using engineered human dermal fibroblasts, Summer 2019, (Role: Committee Member).
2. Zahra Barati, Generation and characterization of tamoxifen-resistant ER+ breast cancer cells using functional genomics strategy, Spring 2018, (Role: Chair).
3. Sirisha Chakkapalli, E-cadherin Mediated Homotypic Cell–Cell Interaction Confers Cytokine Independence in Human Leukemia UT-7 cell line, Summer II, 2017, (Role: Chair).
4. Simbarashe Mazambani, Epigenome modulated xenobiotic metabolism controls breast cancer development and progression in agouti avy/a mice, Summer II, 2017, (Role: Chair).
5. Nobel Chowdhuri, G1P3 promotes breast cancer metastasis by increasing caveolae mediated endocytosis of E-Cadherin, Fall, 2017, (Role: Chair).
6. Swati Balluri, Role G1P3-induced tubulin acetylation in the metastasis of breast cancer cells, Summer 2016, (Role: Chair).
7. Lalitha Gaddipati, Role of G1P3 in cytoskeletal reorganization and breast cancer cell metastasis, Spring 2015, (Role: Chair).
8. Megan Miller, Histone methylation-induced epithelial to secretory transition and breast Cancer Cell Metastasis, Spring 2015, (Role: Chair).
9. Alaa Qurban, Role of PI3-Kinase in macropinosome mediated breast cancer cell metastasis, Summer, 2014, (Role: Chair).
10. Anne Davenport, Loss of maspardin attenuates the growth of mouse cortical neurons," Spring 2014, (Role: Chair).
11. Ashjan Khalel, Mitochondrial functions of G1P3, Spring 2014, (Role: Chair).
12. Richard Martin, NMDA receptor characterization of lectin positive stem cells in the developing chick optic tectum, Spring 2013 (Role: Committee Member)

Undergraduate Honors Theses

In Progress:

2. Monekah Ammouri, Using a novel genomic strategy to identify genes that induce metastasis in ER+ breast cancer cells, Spring 2020, (Role: Chair)
3. Alexander Rodriguez, Le Chatelier's Principle in breast cancer cells, Spring 2020, (Role: Chair)
4. Sarah Sabti, Structure Functional Analysis of Hydrophilic Region 2 (HL2) of G1P3 Protein, Spring 2021, (Role: Chair)
5. Fatima Sabti, Role of Transmembrane region of G1P3 in Breast Cancer Cell Migration, Spring 2021, (Role: Chair)
6. Awatiff Abdurahiman, Topic yet to be decided.
7. Lucas Stiborek, Topic yet to be decided.
8. Alyssa Jackson, Topic yet to be decided.

Completed:

1. Madeleine Morris*, Molecular mechanisms of Epo-independence in erythroleukemia progenitor cells, Spring 2019(Role: Chair), **Graduated with highest honors.*
2. Jason A. McCullough*, Le Chatelier's Principle in Biology: A Gene Analysis of G1P3 Breast Cancer Cells, Spring 2019 (Role: Chair)**Graduated with high honors*
3. Priscille Murphy, Antioxidant N-Acetyl Cysteine as a Post-Trauma Treatment for PTSD-like Symptoms in Zebrafish, Spring 2019 (Role: Chair)
4. Priscille Murphy, Effects of NAC to reverse PTSD symptoms in Zebrafish (Role: Chair)
5. Joseph Bauer*, Gene Isoforms Involved in Zebrafish Traumatic Stress Response, Spring 2018 (Role: Chair), **Graduated with high honors.*
6. Noor Faisal*, Elucidation of Zebrafish Gene Networks and Pathways Associated with PTSD, Spring 2018 (Role: Chair), **Graduated with high honors.*
7. Harmanpreet Kaur*, Role of Epigenetics in Anxiety Response in Agouti Mice, Spring 2018 (Role: Chair)**Graduated with high honors.*
8. Bernadette Johnson*, Zebrafish as a Model for Post-Traumatic Stress Disorder (PTSD), Spring 2017, Role: Chair. **Graduated with highest honors.*
9. Bernadette Peltier*, Effects of BPA on Breast Cancer Development during Pre- and Post-pubertal Exposure, Spring 2017, Role: Chair. **Graduated with highest honors.*
10. Jacob Canfield, Role Abiotic Stress-induced Soybean Phytoalexins in Breast Cancer, Fall 2016, (Role: Chair).
11. Anna Bowsher*, The Protein Kinase C (PKC) mediated H3K27 trimethylation promotes breast cancer cell metastasis, Spring 2016, (Role: Chair), **Graduated with highest honors.*
12. Kailee Johnson*, The Epigenetic Effects of Bisphenol A on the Transgenerational Promotion of Yellow Coat Color and Obesity in Agouti Mice, Spring, 2015 (Role: Chair), **Graduated with highest honors.*
13. Simarashe Mazambani*, Effect of Estrogenic Isoflavones on Menopause and Ovarian Aging in VCD Menopause Mouse Model, Fall 2014, (Role: Chair), **Graduated with high honors.*

14. Sravan Vemuri*, Interferon Stimulated Genes Confer to Poor Survival Outcomes in Estrogen Receptor Negative Breast Cancer, Fall 2014, (Role: Chair), *Graduated with highest honors.
15. Lena Mitchell, Analysis of Heart Muscle Tissue for Detection of Fluorescently Labeled Cells in Conventional and Frozen-Section Tissue Preparations, Fall 2017, (Role: Committee Member).
16. Ashley Arms*, Identification of a Human Myofibril-inducing RNA, Spring 2013, (Role: Committee Member), *Graduated with highest honors.
17. Will Lian, Identification of Human Heart RNA Responsible for Rescuing Mutant Axolotl Hearts, Spring, 2013, (Role: Committee Member).
18. Marshall Hunter Joyce*, Investigating Nogo-A and its potential role with maspardin in Mast Syndrome, Spring 2013, (Role: Committee Member), *Graduated with highest honors.
19. Savannah Brookins*, Possible Contribution of Kinesin-1 to Mast Syndrome, Spring 2012 (Role: Committee Member), *Graduated with highest honors.

**Master's Professional Papers Supervised
Completed:**

1. William Latson, Post Traumatic Syndrome (PTSD) Associated Epigenetic Changes in Mice, (Role: Chair).
2. Alexis Bivona, Development of a humane mouse model for Post Traumatic Syndrome (PTSD) Investigation, (Role: Chair).
3. Jessica Guerrero, Intrauterine Environment and Epigenetics, Fall 2015 (Role: Chair)
4. Emily Sharma, The Effects of Poverty on Epigenetic Mechanisms in Cognition, Fall 2015, (Role: Chair)
5. Ashley Moses, Role of G1P3 in the Regulation of Mitochondrial Permeability Transition Pore (MPTP) Opening. Summer 2015, (Role: Chair)
6. Hung Can, Induced Pluripotent Stem Cells (IPSC): Methods. Summer 2015, (Role: Chair)
7. Chad Watson, MicroRNA as a Potential Cancer Biomarker. Spring 2015, (Role: Chair)
8. Kathleen McAdams, Patterns of Histone Methylation in Breast Cancer Metastasis, Spring 2015, (Role: Chair)
9. Dusty Vincer, Role of mitochondria-associated lipid microdomains in cell fate determination and apoptosis, Spring 2015, (Role: Chair)
10. Naveen Yegyan, Epigenetic Landscape of Breast Cancer Cells, Fall, 2013 (Role: Chair)
11. Sameerh Alsaifi, Epigenetics and Colorectal Cancer, Fall, 2013 (Role: Chair)
12. Victoria Walter, (Role: Committee Member).
13. Kathleen Murkot, Propensity of Developing Alcoholism Based upon Genetic Predisposition, Spring 2012 (Role: Committee Member).

**SPONSOR/MENTORSHIP OF STUDENTS, POSTDOCTORAL & MEDICAL
FELLOWS, AND VISITING SCIENTISTS**

Over the years trained and mentored 81 researchers at various levels of qualifications; of this 42 students (1 doctoral, 25 masters, and 27 undergraduate students at Texas A&M University-Commerce.

At Texas A&M University-Commerce

Doctoral Students

1. Anne Davenport, Doctoral student at Texas Woman's University, Denton, TX. I mentored Ms. Davenport for her master's thesis and she is continuing her doctoral research in my laboratory.

Masters Students

2. Anne Davenport, Completed MS degree and pursuing doctoral degree in Molecular Biology at the Texas Woman's University.
3. Ashjan Khalel, completed MS degree and became visiting lecturer at the King Abdul Aziz University, Saudi Arabia.
4. Ashley Moses, Completed MS degree and pursuing her MD degree at the University of Texas Medical Branch, Galveston, TX.
5. Sameerh Alsaahafi, completed MS degree and became a lecturer at the Al-Baha University, Saudi Arabia.
6. Naveen Yegyan, Completed MS degree and currently technologist at the Swagene, PVT, Ltd, India.
7. Alaa Qurban, Completed MS degree.
8. Lalitha Gaddipati, Completed MS degree and research assistant at the University of Wisconsin.
9. Megan Miller, Completed MS degree and Biology teacher at the Wylie High School, TX.
10. Kathleen McAdams, Completed MS Degree and became an instructor of Anatomy and Physiology at the Nashville Community College, TN.
11. Jessica Guerrero, Completed MS degree and pursuing her Doctoral degree in educational leadership at the Texas A&M University-Commerce.
12. Chad Watson, Completed MS Degree and became a clinical laboratory manager at the Presbyterian hospital, Rockwall, TX.
13. Swati Balluri, Completed MS degree and working as a Research Assistant at the UT Southwestern Medical Center, Dallas, TX.
14. Sirisha Chakkapalli, Pursuing her MS degree.
15. Zahra Barati, Pursuing her MS degree.
16. Nobel Chowdhuri, Pursuing his MS degree.
17. Simbarashe Mazambani, Pursuing his MS degree.
18. Anna Bowsher, Pursuing his MS degree.
19. Undergraduate Students
20. Kailee Johnson, Graduated with highest honors, pursuing PharmD, Ph.D. at the University of Texas, Austin.
21. Anna Bowsher, Graduated with highest honors, pursuing MS degree in Biology at the Texas A&M University-Commerce.
22. Sravan Vemuri, Graduated with high honors, pursuing his MD degree at the St. George University, Grenada, West Indies.

23. Simbarashe Mazambani, Graduated with high honors, pursuing his masters degree at the Texas A&M University-Commerce.
24. Cassandra Palletta, Pursuing her MD degree at the Michael G. DeGroot School of Medicine McMaster University, Hamilton, Canada.
25. Rudy Castillo, Pursuing his Doctoral degree in cancer biology at the University of North Texas Health Science Center, Fort Worth, TX.
26. Mark Hudson, Pursuing his MD degree at the Texas Tech University Health Sciences Center, Lubbock, TX.
27. Ricky Lim, Pursuing his Dental degree at the Univ. of Maryland School of Dentistry
28. Hunter Joyce, Pursuing his Doctoral degree at the University of Texas, Austin.
29. Mehrnoosh Kohansal, Completed undergraduate degree.
30. Jaspreet Kaur, Completed undergraduate degree.
31. Will Latson, After completing the undergraduate degree, pursuing his MS degree in Biology at the Texas A&M university-Commerce.
32. Alexis Bivona, After completing the undergraduate degree, pursuing her MS degree in Biology at the Texas A&M university-Commerce.
33. Jacob Canfield, Graduated with honors.
34. Vanessa Jackson, McNair Scholar, after graduation completed MS program in global medicine from University of Southern California.
35. Barbosa Gadalupe, McNair Scholar, graduated.
36. Keith Booth, McNair Scholar, after graduation completed MBA from the Texas A&M University-Commerce.
37. Christopher Galusha, McNair Scholar, Eco-building construction consultant.
38. Harmanpreet Kaur, Pursuing her undergraduate degree with honors.
39. Joseph Fischer, Pursuing his undergraduate degree with honors.
40. Pio Bradeich, Pursuing his undergraduate degree with honors.
41. Bernadette Johnson, Pursuing her undergraduate degree with honors.
42. Bernadette Peltier, Pursuing her undergraduate degree with honors.
43. Enrique Alvarez, Pursuing his undergraduate degree with honors.

At Cleveland Clinic

Postdoctoral and Medical Fellows and Students

44. Wioleta Luszczyk, Post-doctoral Fellow, Currently genomic core research associate at Louisiana State University, Health Science Center.
45. Sivkumar Vijayaraghavalu, Post-doctoral Fellow, Currently Senior Research Associate at Department of Bioengineering in Cleveland Clinic.
46. Anuj Mahindra, M.D, Hematology & Oncology Fellow, Currently Assistant Clinical Professor of Medicine, UCSF Hellen Diller Family Comprehensive Cancer Center.
47. Perry Evangelista, M.D., trained under me as a Pre-Med Student from Case Western Reserve University, Currently an an orthopedic surgeon at the NYU Langone Medical Center.
48. Akshat Paliwal, M.D., Medical Student, Currently working at as an Internal Medicinsit St. Joseph Hospital and Medical Center, Phoenix, AZ.
49. Tanuja Ram Majeti, American Cancer Society Joseph S. Silber Student Fellow from Louisiana Tech.
50. Chris Hung, Medical Student, Case Western Reserve University, Cleveland, OH.

Reserach Staffs

51. Melissa Kuhns, Reserach Technologist, currently Silver Lake Research Corporation, California.
52. Barbara B. Jacobs, Senior Research technologist, Retired.
53. Dustin Thomas, Research Technologist, currently Postdoctoral Fellow at Johns Hopkins University, Baltimore, Maryland.

At Athersys Inc.

54. Kassem Zabian, Reserach Associate, Currently Director of Mergers & Acquisitions, Analytics, Rx Drug Mart.
55. Karla Dines, Research Associate I, Currently Patent Examiner at US Patent and Trademark Office.
56. Amanda Issler, Reserach Associate I, Currently Medical Illustrator at Cleveland Clinic.
57. Emily Gruss, Research Assistant I.
58. Meghan Louttit, Research Assistant I.
59. Michelle Stone, Research Assistant II.
60. Michelle Callahan, Research Assistant II.
61. Dustin Bunch, Undergraduate Student, CWRU, Currently a Senior Research Technologist in Clinical Pathology at the Cleveland Clinic and a Doctoral student in the Clinical and Bioanalytical Chemistry program at Cleveland State University.

At Tufts University School of Medicine

62. Doctoral- and Summer Students

63. Tatyana Souza, Rotation Graduate Student, Program in Immunology.
64. Ashti Yadav, Undergraduate Summer Student, Biology Department.
65. Ana Petkovska, Rotation Graduate Student, Program in Immunology.
66. Michelle Stanton, Rotation Graduate Student, Program in Immunology.
67. Mireia Guerau de Arellano, Rotation Graduate Student, Program in Immunology.
68. Zana P. Desgranges, Rotation Graduate Student, Program in Immunology.
69. Xi Chen, Rotation Graduate Student, Program in Genetics.
70. Pradeep Bista, Rotation Graduate Student, Program in Immunology.
71. Caterina Sacristan, Rotation Graduate Student, Program in Immunology.

Research Staff

72. Sheila Logan, Research Assistant

SCHOLARSHIP/CREATIVE ACHIEVEMENTS

Research interests

My main research interest concerns how key information for the development and maintenance of organs emerges and regulates in a multicellular organism. Using hypothesis and discovery driven approaches, my laboratory is deciphering the critical cellular and epigenetic events that regulate mammary gland, erythrocyte, and hypothalamus development, and how these processes are deregulated in breast cancer, acute myeloid leukemia, and post-traumatic disorders. I was instrumental in discovering antiapoptotic properties of G1P3/IFI-6 whose functions were unknown for 25 years after its cloning.

- Ongoing investigations in my laboratory at A&M-Commerce, discovered G1P3's role in mitochondrial redox regulation, and its effects on multiple cellular pathways to promote breast cancer cell metastasis.
- To accelerate the discovery of key genes with therapeutic value, we invented a functional genomics discovery platform called GRIP for random activation of genes in a genome wide scale. Having validated, currently we are deploying GRIP platform to identify genes 1) that drives antiestrogen independence in breast cancer cells and 2) promote myelodysplastic syndrome (MDS) to secondary acute myeloid leukemia (AML).
- The hormone erythropoietin (Epo) regulates erythropoiesis (formation of red blood cells from erythroid progenitor cells). However, in aggressive forms AML, erythroid progenitor cells grow and proliferate without Epo. To decipher signaling pathways that confer Epo-independent proliferation of erythroid progenitor cells, my laboratory has developed a series of erythroid progenitor cells that grow and proliferate without Epo and delineated molecular mechanisms responsible for this.

EXTRA- AND INTRAMURAL RESEARCH AWARDS

Active:

1. Bio-Pride JAMP Supplemental Grant 01/01/2022–08/30/2022
Agency: Texas Higher Education Coordinating Board Amount: \$ 14964.0
Role: Co-Principal Investigator
Major goal of this proposal is to conduct 4-days intensive orientation program for incoming biology majors in August–2022

Pending Review

1. NSF, RUI Proposal, 08/01/2022-07/31/2025
RUI: Studies of Alternative Metal Binding Peptides: Applications for Recombinant Protein Expression, Proteinase Inhibitors and Chelation Agents
Agency: National Science Foundation Amount: \$315, 312.00
Role: Co-Principal Investigator

Completed:

1. Bio-Pride JAMP Supplemental Grant 1/01/2021–08/30/2021
Agency: Texas Higher Education Coordinating Board Amount: \$ 12,952.00
Role: Co-Principal Investigator
Major goal of this proposal is to conduct 4-days intensive orientation program for incoming biology majors in August–2021
2. Bio-Pride JAMP Supplemental Grant 1/01/2020–08/30/2020
Agency: Texas Higher Education Coordinating Board Amount: \$ 13,758.0
Role: Co-Principal Investigator
Major goal of this proposal is to conduct 4-days intensive orientation program for incoming biology majors in August–2020
3. Bio-Pride JAMP Supplemental Grant 1/01/2019–08/30/2019

Title: Role of G1P3-Actin Interactions in Breast Cancer Development and Metastasis.
The goals of this pilot project was to gain an understanding of the molecular role of G1P3-Actin interaction in breast cancer metastasis.

Role: PI

10. Faculty Research Enhancement Award 09/01/2012–08/31/2013
Agency: Texas A&M University-Commerce Total Award Amount: 18,000
Title: Molecular Role of G1P3 in Developing Therapeutic Resistance in ER+ Breast Cancers

The goals of this pilot project was to gain an understanding of the molecular mechanisms of the antiapoptotic activity of G1P3, the data collected from this will be used for obtaining extramural funding.

Role: PI

11. NIH 1R01CA149359-01 01/04/10–31/08/11

Agency: National Cancer Institute

Title: Drug resistance in cancer therapy.

The Goal of this study is to overcome drug resistance in breast cancer using nanoparticles.

Role: Co-Investigator (7% effort); PI: Vinod Labhasetwar, Ph.D., Cleveland Clinic.

12. Clinical and Translational Science Collaborative Pilot Grant 11/28/08 –11/28/09

Agency: National Cancer Institute

Total Award Amount: \$25,000

Title: Molecular Analysis of the Anti-apoptotic Protein G1P3 on Survival Signaling on Breast Carcinoma.

The goal of this study is to optimize conditions of In situ hybridization to assess G1P3 expression in breast cancer specimens.

Role: PI

13. Merck & Co., Inc. Grant, 08/01/07–06/30/09

Agency: Merck & Co

Total Award Amount: \$30,000

Title: Comparison of the Antimyeloma Effects of SAHA as a single agent in MMSET Positive and Negative Cells.

The goal of this study is to compare the antimyeloma effects of SAHA in t(4-14), MMSET Positive and non-t(4-14) MMSET negative multiple myeloma.

Role: PI

14. Scott Hamilton CARES Research Award, 01/01/07–06/30/08

Agency: Scott Hamilton Foundation

Total Award Amount: \$100,000

Title: A Proof-of-Principle Study to Assess the role of Smac Variants as a Prognosticator to HDAC Inhibitor-Doxubicin Combination Therapy for Multiple Myeloma.

The goal of this study is to investigate the role of Smac isoforms in apoptosis potentiating effects of HDAC inhibitors in combination with doxorubicin in myeloma.

Role: PI

15. American Cancer Society Pilot Grant, 01/01/05–01/01/06

Agency: American Cancer Society

Total Award Amount: \$25,000

Title: Identification and Validation of Molecular Targets for Therapeutic Interventions for Multiple Myeloma.

The goal of this study is to investigate the potential role of interferon stimulated genes as therapeutic targets in myeloma.

Role: PI

Unfunded

1. NSF MRI-49 () 09/01/2020–08/31/2022
Agency: National Science Foundation Amount Requested: \$241,328.00
MRI: Acquisition of Incucyte® S3 Live-Cell Analysis System for Texas A&M University-Commerce
Role: PI
Major goal of this collaborative proposal is to acquire a live cell analyzer IncucyteS3 for biology department to train the next generation of biologists from a population underrepresented in STEM
2. NSF MRI:49 grant (1920238) 06/01/2019–05/30/2022
Agency: National Science Foundation Amount Requested: \$958,001.00
MRI: Acquisition of Instruments to Establish a Cell Physiology and Metabolism Core (CPMC) for Texas A&M University-Commerce
Role: PI
3. 1R03CA246037-01 (Cheriyath) 12/01/2019–12/30/2021
Agency: National Institute of Health Amount Requested: \$140,270.00
Identification and Validation of Drivers of Intrinsic Metastasis in ER+ Breast Cancer
Role: PI
4. RCA231342A (AREA R15) (Cheriyath) 01/01/2020–12/30/2022
Agency: National Institute of Health Amount Requested: \$340,000.00
Mechanisms of G1P3-induced Mitochondrial Redox Signaling in Breast Cancer Metastasis. Role: PI
5. 1 R25 GM128572-01 07/01/2018–06/30/2023
Agency: National Institute of Health Amount Requested: \$1,622,864.00
The TAMU Bridges to the Doctorate Program (Bridges Program)
Role: co-PI, PI: Huang, Jianhua, Ph.D., TAMU, College Station
6. 1616864 (Cheriyath) 06/01/2016–05/31/2020
Agency: National Science Foundation Total Requested Amount: \$576,700
RUI: Molecular Mechanism and functions of G1P3 Mediated Mitochondrial Dynamics
Role: PI
7. 1 R15 CA 199026-01 (Cheriyath) 09/01/2016–03/31/2019
Agency: National Institutes of Health Total Requested Amount: \$408,000
Title: Molecular Mechanisms of G1P3 Mediated Resistance to Systemic Therapy in Breast Cancer
Role: PI

INVITED LECTURES, CONFERENCE/SYMPOSIA/KEYNOTE SPEECHES (Partial List)

- Cheriyath, V. Nutrigenomics and Cancer, National Higher Education Project Webinar Series, Kerala Agricultural University, India, **November 19, 2020**
- Cheriyath, V. International Seminar “Ph.D. Thesis Writing.” Narayana Medical College, Nellore, Andhra Pradesh, India., **September 10, 2020**
- G1P3/IFI6 and Breast Cancer Metastasis, Cancer Malaysia 2019 International Conference, Kuala Lumpur, Malaysia, **Keynote Speech, November 19, 2019**
- New Insights into the Role of G1P3-induced Mitochondrial ROS (mtROS) in Breast Cancer Metastasis, Department of Chemistry, **September 27, 2019**
- Emerging Roles of G1P3 in Breast Cancer Cell Metastasis, Department of Biology, Texas Woman's University, Denton, January 29, 2016
- Paradoxical Effects of Interferon Stimulated Genes in Cancer, Kerala Agricultural University, India, June 22nd, 2015
- Interferon Stimulated Genes in Breast Cancer: Friend or Foe, ICR Grand Round Seminar, University of North Texas Health Science Center, March, 6, 2013.
- Interferon Stimulated Genes in Breast Cancer: Friends or Foes, Department of Biotechnology, Collin County Community, April, 19, 2013.
- Novel Role of G1P3 in the Disruption of Mammary Gland Morphogenesis: Implications for Breast Cancer; Department of Biological Sciences, University of Toledo, OH, USA, 2011.
- Novel Role of G1P3 in the Disruption of Mammary Gland Morphogenesis: Implications for Breast Cancer; Department of Biological and Environmental Sciences, Texas A&M University-Commerce, TX, USA, 2011.
- Targeting Cancer Cells: Roles of Survival Factors, Epigenetic Modulators and Nanotechnology, Amrita Institute of Medical Sciences and Research Center, India, 2010.
- The antiapoptotic protein G1P3 (ISG 6-16) on survival signaling in breast carcinoma - Cytokine and Endocrine Crosstalk–International Society for Interferon and Cytokine Research Annual Meeting, Montreal, Canada, 2008.
- Histone deacetylase (HDAC) inhibition augments IFN- α 2b induced gene expression and antiproliferative effects in myeloma, International Society for Interferon and Cytokine Research Annual Meeting, Oxford, London, 2007.
- G1P3 an interferon stimulated gene antagonizes TRAIL induced apoptosis in melanoma- International Society for Interferon and Cytokine Research Annual Meeting, Vienna, Austria, 2006
- Role of MMSET in SAHA Efficacy in Myeloma, Merck Inc., 2008
- Drugging the Cancer Genome: Role of Epigenetic Modulators in Combination Therapy, Gilead Science, Sanfrancisco, 2008
- Role of Src in internalization and nuclear sorting of the transcription factor TFII-I–10th Annual Sidney Leskowitz mini symposium, Tufts University School of Medicine, Boston, MA, 2005nces Inc., 2001
- Role of Src in internalization and nuclear sorting of the transcription factor TFII-I, Cold Spring Harbor Laboratory-Tyrosine Phosphorylation and Cell Signaling, 2001
- TFII-I, a Multifunctional Transcription Factor–Athersys Inc., 2001

- Nuclear translocation and differential gene regulation by TFII-I–9th Annual Sidney Leskowitz mini symposium, Tufts University School of Medicine, Boston, MA, 2000
- Complex Formation and Nuclear Translocation of TFII-I Isoforms, National Center for Biological Sciences, Bangalore, India, 1999
- Regulation of Nuclear Translocation of TFII-I Isoforms, Kerala Agricultural University, India, 1999
- TFII-I functions through the V-beta initiator element *in vivo*-7th Annual Sidney Leskowitz mini symposium, Tufts University School of Medicine, Boston, MA, 1998

PUBLICATIONS

Authored/Co-authored 27 peer reviewed publications in high impact journals, two original articles and a review are ready for submission, 95 non-refereed publications in various conferences and several of them won prizes, awards, and/or travel grants.

Refereed Journal Articles

In Progress:

1. Chowdhury, N., Morris, M., Davenport, A., and **Cheriyath, V.** G1P3 Promotes Breast Cancer Metastasis By Increasing Caveolae Mediated Endocytosis of E-Cadherin. 2020
2. Vemuri, S., Johnson, AK., Carlson, M. and **Cheriyath, V.** The Adverse Effects of Interferon Stimulated Genes in Estrogen Receptor Negative Breast Cancer. 2020
3. McAdams, K., Johnson, B., and **Cheriyath, V.** Regulating the regulators of breast cancer metastasis. 2020

Published/accepted

1. Mazambani S, Morris M, Cheriyath V (2019) Epigenome modulated xenobiotic detoxification pathways control DMBA-induced breast cancer in agouti Avy/a mice. *Epigenetics*, 14(7):708–720. <https://doi.org/10.1080/15592294.2019.1610306>
Impact Factor: 4.918
2. **Cheriyath, V.**, Kaur, J., Davenport, A., Khalel, A., Chowdhury, N., and Gaddipati, L. G1P3 (IFI6), a Mitochondrial Localised Antiapoptotic Protein, Promotes Metastatic Potential of Breast Cancer Cells through MtROS. *Br. J. of Cancer*, 2018, 119: 52–64. <https://doi.org/10.1038/s41416-018-0137-3>. **Impact Factor: 5.99**
3. Mazambani, S., Johnson, K., Vemuri, S., Alshafi, S., and **Cheriyath, V.** Daidzin-rich Soy Isoflavone Extracts Promote Estrous Cycling in VCD-induced Menopause Mouse Model *Nutri Food Sci Int J.* 2018; 4(4): 555644. **Impact Factor: 1.202**
4. Johnson, A.K., Vemuri, S., Alshafi, S., Castillo, R., and **Cheriyath, V.** Glycone-rich Soy Isoflavone-Extracts Promotes Estrogen Receptor Positive Breast Cancer Cell Growth. *Nutr Cancer*, 2016, 68(4):622-33, **Impact Factor: 2.53.**
5. Davenport, A., Latson, W., Bivona, A., Lemanski, L.F. and **Cheriyath, V.** Loss of Maspardin Attenuates the Growth and Maturation of Mouse Cortical Neurons. *Neurodegener Dis.*, 2016, 16:260-72, **Impact Factor: 3.51**
6. Khan, S. N., Jankowska, A. M., Mahfouz, R., Dunbar, A. J., Sugimoto, Y., Hosono, N., Hu, Z., **Cheriyath, V.**, Vatolin, S., Przychodzen, B., et al. Multiple mechanisms deregulate

- EZH2 and histone H3 lysine 27 epigenetic changes in myeloid malignancies. *Leukemia* 2013, 27: 1301-1309, **Impact Factor: 10.431**
7. Vijayaraghavalu, S., Dermawan, J. K., **Cheriyath, V.**, and Labhasetwar, V. (2013). Highly synergistic effect of sequential treatment with epigenetic and anticancer drugs to overcome drug resistance in breast cancer cells is mediated via activation of p21 gene expression leading to G2/M cycle arrest. *Mol Pharm* 10, 337-352, **Impact Factor: 4.128**
 8. **Cheriyath, V.***, Kuhns, M., Jacobs, B., Evangelista, P., Downs-Kelly, E., Tubbs, R., Crowe, J., and Borden, E.C. G1P3, an interferon- and estrogen-induced survival protein contributes to hyperplasia, tamoxifen resistance and poor outcomes in breast cancer. *Oncogene*. 2012. Epub 2011/10/15. doi: 10.1038/onc.2011.393. PubMed PMID: 21996729. ***Corresponding author, Impact Factor: 8.459**
 9. **Cheriyath, V.***, Leaman, D.G. and Borden, E.C. Emerging Roles of FAM14 Family Members (ISG 6-16 and ISG 12) in Innate Immunity and Cancer. *J. Interferon and. Cyto. Res.*, 2011, 31:173-81. ***Corresponding author, Impact Factor: 2.0**
 10. **Cheriyath, V.***, Kuhns, M., Kalaycio, M.E. and Borden, E.C. Potentiation of apoptosis by histone deacetylase inhibitors and doxorubicin combination: cytoplasmic cathepsin B as a mediator of apoptosis in multiple myeloma. *Br. J. Cancer*, 2011, 104: 957-67., ***Corresponding author, Impact Factor: 4.836**
 11. Luszczyk, W., **Cheriyath, V.**, Borden, E.C., Mekhail, T. Combinations of DNA Methyltransferase and Histone Deacetylase Inhibitors Induce DNA Damage in Small Cell Lung Cancer Cells: Correlation of Resistance to Interferon Stimulated Gene Expression. *Mol. Cancer Ther.*, 2010, 9:2309-21, **Impact Factor: 5.683**
 12. Bae, S., **V. Cheriyath**, B. Jacobs, F. Reu, and E. Borden. Reversal of methylation silencing of Apo2L/TRAIL receptor 1 (DR4) expression overcomes resistance of SK-MEL-3 and SK MEL-28 melanoma cells to interferons (IFNs) or Apo2L/TRAIL. *Oncogene*, 2008, 27: 490 - 498. ***Co-First author, Impact Factor: 8.459**
 13. **Cheriyath, V.**, K. B. Glaser, J. F. Waring, R. Baz, M. A. Hussein, and E. C. Borden. G1P3, an IFN-induced survival factor, antagonizes TRAIL-induced apoptosis in human myeloma cells. *J Clin Invest.*, 2007, 117: 3107-3117, **Impact Factor: 16.915**
 14. **Cheriyath, V.**, Jacobs, B.S. and Hussein, M.A. Proteasome inhibitors in the Clinical Setting: Benefits and Strategies to Overcome Multiple Myeloma Resistance to Proteasome Inhibitors. *Drugs R D.*, 2007, 8: 1-12, **Impact Factor: 1.707**
 15. **Cheriyath, V***. and Hussein, M.A. Osteopontin, angiogenesis and multiple myeloma. *Leukemia*, 2005, 19: 2203-5, ***Corresponding author, Impact Factor: 10.431**
 16. **Cheriyath, V.**, Desgranges, Z.P. and Roy, A.L. c-Src-dependent transcriptional activation of TFII-I. *J. Biol. Chem.*, 2002, 277: 22798-22805, **Impact Factor: 4.573**
 17. **Cheriyath, V.**, Balasubrahmanyam, A. and Kapoor, H.C. Purification and characterization of a 29 kDa poly(A)-binding protein from chickpea (*Cicer arietinum*) epicotyl, *Indian J. Biochem. Biophys.*, 2001, 38: 258-262, **Impact Factor: 4.573**
 18. **Cheriyath, V.** and Roy, A.L. Structure-function analysis of TFII-I. Roles of the N-terminal end, basic region, and I-repeats, *J. Biol. Chem.*, 2001, 276: 8377-8383, **Impact Factor: 4.573**

19. Parker, R., Phan, T., Baumeister, P., Roy, B., **Cheriyath, V.**, Roy, A.L. and Lee, A.S. Identification of TFII-I as the endoplasmic reticulum stress response element binding factor ERSF: its autoregulation by stress and interaction with ATF6, *Mol. Cell Biol.*, 2001, 21: 3220-3233, **Impact Factor: 4.777**
20. **Cheriyath, V.**, Balasubrahmanyam, A. and Kapoor, H.C. Purification and characterization of 72k poly(A)-binding protein from chickpea (*Cicer arietinum*) epicotyls, *Indian J. Biochem. Biophys.*, 2000, 37: 107-113, **Impact Factor: 0.871**
21. **Cheriyath, V.** and Roy, A.L. Alternatively spliced isoforms of TFII-I. Complex formation, nuclear translocation, and differential gene regulation, *J. Biol. Chem.*, 2000, 275: 26300-26308, **Impact Factor: 4.573**
22. Novina, C.D., Kumar, S., Bajpai, U., **Cheriyath, V.**, Zhang, K., Pillai, S., Wortis, H.H. and Roy, A.L. Regulation of nuclear localization and transcriptional activity of TFII-I by Bruton's tyrosine kinase, *Mol. Cell Biol.*, 1999, 19: 5014-5024, **Impact Factor: 4.777**
23. **Cheriyath, V.**, Novina, C.D. and Roy, A.L. TFII-I regulates β promoter activity through an initiator element, *Mol. Cell Biol.*, 1998, 18: 4444-4454, **Impact Factor: 4.777**
24. Kapoor, H.C., **Venugopalan, C.** and Sharma, N. Auxin regulated changes in in vivo protein phosphorylation in chick pea (*Cicer arietinum*) and possible role of Ca^{2+} -calmodulin, *Indian Journal of Experimental Biology*, 1998, 36: 501-505, **Impact Factor: 0.835**
25. Kim, D.W., **Cheriyath, V.**, Roy, A.L. and Cochran, B.H. TFII-I enhances activation of the c-fos promoter through interactions with upstream elements, *Mol. Cell Biol.*, 1998, 18: 3310-3320, **Impact Factor: 4.777**
26. Novina, C.D., **Cheriyath, V.** and Roy, A.L. Regulation of TFII-I activity by phosphorylation, *J. Biol. Chem.*, 1998, 273: 33443-33448, **Impact Factor: 4.573**
27. Grueneberg, D.A., Henry, R.W., Brauer, A., Novina, C.D., **Cheriyath, V.**, Roy, A.L. and Gilman, M. A multifunctional DNA-binding protein that promotes the formation of serum response factor/homeodomain complexes: identity to TFII-I, *Genes Dev.*, 1997, 11: 2482-2493, **Impact Factor: 12.44**
28. Novina, C.D., **Cheriyath, V.**, Denis, M.C. and Roy, A.L. Methods for studying the biochemical properties of an Inr element binding protein: TFII-I, *Methods*, 1997, 12: 254-263, **Impact Factor: 3.851**
29. **Venugopalan, C.** and Kapoor, H.C. Single step isolation of plant RNA, *Phytochemistry*, 1997, 46: 1303-1305, **Impact Factor: 3.35**
30. **Venugopalan, C.** and Srivastava, K.N. *Ind. J. Food Science & Tech*, 1996, 33: 389-392.

Non-Refereed Publications or Other Creative Achievements

2019

International/National Meeting

1. Davenport, A., Morris, M.C., Sabti, S., Sabti, F., Hynds, D., and **Cheriyath, V.** (2021), Subcellular localization of Interferon Stimulated Gene G1P3/IFI6 in Breast Cancer Cells. Combined meeting of American Society for Cell Biology (ASCB) and European Molecular Biology Organization, **December 1-10, 2021.**

2. **Cheriyath, V.**, Chowdhuri, N., Morris, M., and Davenport, A. G1P3 (IFI6/ISG 6-16) promotes breast cancer metastasis by elevating caveolae mediated endocytosis of E-cadherin. Cytokines 2019, International Cytokine and Interferon Society (ICIS), Vienna, Austria, October 20–23, 2019.
3. Davenport, A., Morris, M.C., and **Cheriyath, V.** (2019), G1P3-induced mtROS Elicits Retrograde Signaling Alters Nuclear Gene Expression of Cav1 and Scn-1 to Promote Breast Cancer Cell Migration. **Molecular Biology of the Cell, Dec. 15, Volume 30: P3075**, 2019 American Society for Cell Biology Annual Meeting, Washington, DC., December 7-11, 2019

Regional Meeting

1. Davenport, A., Morris, M.C., Stiborek, L., Hynds, D., and Cheriyath, V. (2021), Subcellular localization of G1P3: a mitochondrial ROS-regulating pro-metastatic protein. 2021 Annual Federation Graduate Student Research Symposium, University of North Texas; Denton, **April 9, 2021**.
2. Morris, M*, Davenport, A., Chakkapalli, S., and **Cheriyath, V.** Caprin-2 Confers Cytokine-Independence in Erythroleukemia Progenitor Cells by Mediating β -catenin Nuclear Translocation. 11th Annual Federation Graduate Student Research Symposium, University of North Texas; Denton (Meeting Canceled).
3. Davenport, A*, Morris, M., Chowdhury, N, Hynds, A., and **Cheriyath, V.** G1P3-induced Retrograde Signals from Mitochondria Upregulated Caveolin-1 to Promote Breast Cancer Cell Migration. 11th Annual Federation Graduate Student Research Symposium, University of North Texas; Denton (Meeting Canceled).
4. Flores, A., **Cheriyath, V.**, and Angel, L. L. Determining the nickel-NTA, ZINC-NTA, and Cobalt-NTA binding affinity of poly-histidine peptides and alternative metal binding PEPTIDES AS Potential affinity tags, using ion mobility mass spectrometry. American Chemical Society, March 22–26, 2020.
5. Morris, M*, Chakkapalli, S., and **Cheriyath, V.** Caprin-2 Confers Hormonal Independence in Cancer Progenitor Cells by Regulating β -catenin Nuclear Translocation. Texas A&M University-Commerce Annual Research Symposium, November 7-8, 2019. ***Won 1st place in the Graduate Life Science/Biomedical Sciences Section at 16th Texas A&M University-Commerce Annual Research Symposium (2019).**
6. Parmar, N., Davenport, A., Ball, J.M., Morris, M., and **Cheriyath, V.** Loss of Cell Junctions in G1P3 Expressing Cells Promotes Breast Cancer Cell Migration and Invasion. Texas A&M University-Commerce Annual Research Symposium, November 7-8, 2019.
7. Davenport, A., Chowdhury, N., Morris, M., McCollough, J., Hynds, D., and **Cheriyath, V.** G1P3-induced mtROS promote metastasis by suppressing E-cadherin cell-surface expression through augmented Endocytosis. 10th Annual Federation Graduate Student Research Symposium, University of North Texas; Denton, April 5, 2019. ***Third place in the Science, Technology, Engineering and Math category (Tie)**

8. Morris, M*, Chakkapalli, S., and **Cheriyath, V.** Caprin2 Mediated β -Catenin Nuclear Translocation Confers Cytokine-independence in Erythroleukemia. Undergraduate Research Day at the Capitol, Austin, TX, April 1, 2019, ***Selected to represent the University.**

Local Meeting

9. Morris, M*, Chakkapalli, S., and **Cheriyath, V.** Caprin-2 Containing Cytoplasmic Granules Activate β -catenin Nuclear Translocation and Confer Cytokine-independence in Erythroleukemia. Texas A&M University-Commerce Annual Research Symposium, April 9, 2019. ***1st place in Undergraduate Oral Presentation, Science and Engineering and Overall Winner.**
10. Ammouri, M*, Barati, Z., and **Cheriyath, V.** GRIP: A Novel Functional Genomic Strategy to Map Networks of Metastasis-initiating Genes in ER+ Breast Cancer. Texas A&M University-Commerce Annual Research Symposium, April 9, 2019. ***1st place on Poster Presentation, Science and Engineering.**
11. Parmar*, N., Davenport, A., Ball, J., and **Cheriyath, V.** G1P3-induced mtROS Promotes Breast Cancer Cell Metastasis by Internalization of Tight Junction Protein Claudin-1. Texas A&M University-Commerce Annual Research Symposium, April 9, 2019.
12. Murphy, P., and **Cheriyath, V.** Antioxidant N-Acetyl Cystiene (NAC) as a Post-Trauma Treatment for PTSD-like Symptoms in Zebrafish. Texas A&M University-Commerce Annual Research Symposium, April 9, 2019.
13. McCollough, J., Morris, M., Davenport, A., and **Cheriyath, V.** Le Chatelier's Principle in Biology: A Gene Analysis of G1P3 Breast Cancer Cells. Texas A&M University-Commerce Annual Research Symposium, April 9, 2019.

2018

National/International Meeting

14. Morris, M.C., Chakkapalli, S., and **Cheriyath, V.** Caprin2 Containing Cytoplasmic Granules Activate catenin Nuclear Translocation and Confer Cytokine independence in Erythroleukemia. Molecular Biology of the Cell, Dec. 15, Volume 29: P2979, 2018 American Society for Cell Biology Annual Meeting, San Diego, December 8-12, 2018.

Regional Meetings

15. Davenport, A.
16. Ammouri*, M., Barati, Z., and **Cheriyath, V.** GRIP: A Functional Genomics Strategy to Identify and Validate Metastasis-promoting Gene Networks in Breast Cancer. Texas A&M System 15th Annual Pathways Student Research Symposium, West Texas A&M University, TX, November 1-2, 2018. ***Won 2nd place in Undergraduate Life Science Category.**
17. Parmar*, N., Davenport, A., and **Cheriyath, V.** G1P3-induced mtROS augments caveolae mediated Internalization of tight junction protein Claudin-1 to promote breast cancers. Texas A&M System 15th Annual Pathways Student Research Symposium, West Texas A&M University, TX, November 1-2, 2018. ***Won 2nd place in Undergraduate Life Science Category.**

Local Meetings

18. Noor, F*., and **Cheriyath, V.**, Elucidation of Zebrafish Gene Networks and Pathways Associated with PTSD. Texas A&M University-Commerce Annual Research Symposium, April 3, 2018. ***1st place Agricultural Sciences and Natural Resources**
19. Joseph Fi
20. Zahra Barati
21. Bianco Rayo

2017

National/International Meeting

22. Chowdhury¹, N., McCullough, J., Davenport¹, A., and Cheriyath, V. G1P3-induced mtROS augment caveolae mediated endocytosis of E cadherin to promote breast cancer metastasis., *Molecular Biology of the Cell*, Dec. 15, Volume 28: P2144, 2017 American Society for Cell Biology Annual Meeting, Philadelphia, December 2-6, 2017.
23. Chakkapalli, S., Morris, M.C., Barati, Z., and Cheriyath, V. E-cadherin mediated homotypic cell–cell interaction confers cytokine independence in human erythroleukemia. *Molecular Biology of the Cell*, Dec. 15, Volume 28: P2144, 2017 American Society for Cell Biology Annual Meeting, Philadelphia, December 2-6, 2017.

Regional Meetings

24. Chowdhury*, N., Mccullough, J., Davenport, A., and Cheriyath, V. G1P3 promotes breast cancer metastasis by increasing caveolae mediated endocytosis of E-Cadherin. Texas A&M System 14th Annual Pathways Student Research Symposium, Tarleton State University, TX, November 2-3, 2017. ***Won 2nd place in Master's Life Science Category.**
25. DeBose-Boyd, R., Davenport, A., Cheriyath, V., G1P3-induced E-Cadherin endocytosis alters β -catenin expression and localization in breast cancer cells. Texas A&M System 14th Annual Pathways Student Research Symposium, Tarleton State University, TX, November 2-3, 2017.
26. Noor, F*., and Cheriyath, V., Elucidation of Zebrafish Gene Networks and Pathways Associated with PTSD. Texas A&M System 14th Annual Pathways Student Research Symposium, Tarleton State University, TX, November 2-3, 2017. **Won 2nd place in Undergraduate Agriculture Category.**
27. Morris, M., Chakkapalli, S., Barati, Z., and Cheriyath, V. E-cadherin mediated homotypic cell–cell interaction confers cytokine independence in human erythroleukemia. Texas A&M System 14th Annual Pathways Student Research Symposium, Tarleton State University, TX, November 2-3, 2017.
28. Bowsher, A., and Cheriyath, V. protein kinase c mediated histone h3k27 tri-methylation augments breast cancer cell metastasis, 2017. 8th Annual Federation Graduate Student Research Symposium, Texas Woman's University; Denton, March 31; 2017.
29. Mazambani, S., and Cheriyath, V. Agouti modulated xenobiotic detoxification in the liver controls breast cancer susceptibility in Avy/a mice, 2017. 8th Annual Federation Graduate Student Research Symposium, Texas Woman's University; Denton, March 31; 2017.

30. Chakkapalli, S*, Morris, M., Barati, Z., and Cheriyath, V. E-cadherin mediated homotypic cell–cell interaction confers cytokine independence in human erythroleukemia, 2017. 8th Annual Federation Graduate Student Research Symposium, Texas Woman’s University; Denton, March 31; 2017. ***Third place in the Science, Technology, Engineering and Math category (Tie).**
31. Chowdhury*, N., McCullough, J., Davenport, A., and Cheriyath, V. G1P3 promotes breast cancer metastasis by increasing caveolae mediated endocytosis of E-Cadherin, 2017. 8th Annual Federation Graduate Student Research Symposium, Texas Woman’s University; Denton, March 31; 2017. ***Third place in the Science, Technology, Engineering and Math category (Tie).**
32. Barati, Z., Chakkapalli, S., and Cheriyath, V. GRIP: a novel functional genomics platform to identify tamoxifen resistant genes in breast cancer cells. 8th Annual Federation Graduate Student Research Symposium, Texas Woman’s University; Denton, March 31; 2017.
33. Johnson, B*., and Cheriyath, V. Role of Reactive Oxygen Species' in Post-Traumatic Stress Disorder (PTSD) in Zebrafish, 2017. Undergraduate Research Day at the Capitol, March 28, 2017, Selected to represent the University.

Local Meeting

34. Kaur, H*, Venugopalan, K., Chaveri, I., Davenport, A., and Cheriyath, V. A Novel Role for Agouti Gene in Stress, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017. ***Won Undergraduate Poster Presentation Category (Tie).**
35. Morris, M., Chakkapalli, S., and Cheriyath, V. Cytokine Independent Abnormal Proliferation and Differentiation of AML Cells, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017.
36. Peltier, B. and Cheriyath, V. Effects of BPA on Cancer Development during Pre- and Post-pubertal Exposure, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017. ***Won Undergraduate Poster Presentation Category (Tie).**
37. Chakkapalli, S., Morris, M., Barati, Z., and Cheriyath, V. Cadherin Mediated Homotypic Cell–Cell Interaction Confers Cytokine Independent Growth and Proliferation Of AML Cells. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017. ***Won 1st Place in Graduate Poster Presentation Category.**
38. Barati, Z., Chakkapalli, S., and Cheriyath, V. GRIP: A Novel Functional Genomics Platform to Identify Tamoxifen Resistant Genes in Breast Cancer cells, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017.
39. Bowsher, A* and Cheriyath, V. Protein Kinase C Mediated Histone H3K27 Tri-methylation augments Breast Cancer Cell Metastasis, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017. ***Won Graduate Poster Presentation Category.**

40. Davenport, A., Kaur, H., Fischer, J., and Cheriyath, V. G1P3, a Mitochondrial Anti-apoptotic Protein Regulates Neuronal Cell Spreading and Differentiation, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017.
41. Johnson, B. and Cheriyath, V. Role of Reactive Oxygen Species in Post-Traumatic Stress Disorder (PTSD) in Zebrafish, 2017. Texas A&M University-Commerce Annual Research Symposium, April 6, 2017. **Won 1st Prize in Undergraduate Oral Presentation.**

2016

Regional Meetings

42. Balluri, S. and **Cheriyath, V.** G1P3-induced mtROS promote Tubulin Acetylation to confers migratory potential in breast cancer cells, 2016, 7th Annual Federation Graduate Student Research Symposium, Texas Woman's University; Denton, April 8; 2016.
43. Barati, Z. and **Cheriyath, V.** Optimization of cell based screening strategy to identify tamoxifen resistant genes, 2016, 7th Annual Federation Graduate Student Research Symposium, Texas Woman's University; Denton, April 8; 2016.
44. Chakkapalli, S. and **Cheriyath, V.** GRIP: A novel functional genomics platform to identify and validate therapeutic targets in myelodysplastic syndrome, 2016, 7th Annual Federation Graduate Student Research Symposium, Texas Woman's University; Denton, April 8; 2016
45. Barati, Z, Chakkapalli, S. and **Cheriyath, V.** GRIP: A Novel Functional Genomics Platform to Identify Tamoxifen Resistant Genes in Breast Cancer Cells. Texas A&M System 13th Annual Pathways Student Research Symposium, Prairie View A&M University, TX, November 3-6, 2016.
46. Chakkapalli, S., Barati, Z., and **Cheriyath, V.** Protein Kinase C Pathway Directs Cytokine independence and Differentiation of Hematopoietic Progenitor Cell line UT-7. Texas A&M System 13th Annual Pathways Student Research Symposium, Prairie View A&M University, TX, November 3-6, 2016.
47. Bowsher, A. and **Cheriyath, V.** Protein Kinase C Mediated Histone H3K27 Trimethylation Augments Breast Cancer Cell Metastasis. Texas A&M System 13th Annual Pathways Student Research Symposium, Prairie View A&M University, TX, November 3-6, 2016.
48. Johnson, B. and **Cheriyath, V.** Zebrafish as a Viable Model for Post-Traumatic Stress Disorder (PTSD). Texas A&M System 13th Annual Pathways Student Research Symposium, Prairie View A&M University, TX, November 3-6, 2016.
49. Kaur, H., Venugopalan, K., Chavarri, I., Davenport, A., and **Cheriyath, V.** A Novel Role for Agouti gene in Stress Response in Mice. Texas A&M System 13th Annual Pathways Student Research Symposium, Prairie View A&M University, TX, November 3-6, 2016.

Local Meetings

50. Balluri, S*. and **Cheriyath, V.** G1P3-induced Tubulin Acetylation increases Breast Cancer Cell Migration, 2016 Texas A&M University-Commerce Annual Research Symposium, April 7, 2016. ***Won 1st Place in Graduate Category.**
51. Chakkapalli, S. and **Cheriyath, V.** Myelodysplastic Syndrome target identification and validation, 2016 Texas A&M University-Commerce Annual Research Symposium, April 7, 2016.

52. Chowdhuri, N. and **Cheriyath, V.** G1P3-Induced Mitochondrial Reactive Oxygen Species (mtROS) Increase Histone H3k27 Trimethylation In G1p3 Mediated Breast Cancer, 2016 Texas A&M University-Commerce Annual Research Symposium, April 7, 2016.
53. Kaur, J.*, Khalel, A. and **Cheriyath, V.** G1P3, a Mitochondrial Localized Antiapoptotic Protein Promotes Breast Cancer Cell Metastasis through ROS, 2016 Texas A&M University-Commerce Annual Research Symposium, April 7, 2016. ***Won 1st Place in Undergraduate Category.**

2015

Regional Meetings

54. Balluri, S.* and **Cheriyath, V.** Role Of G1p3-Induced Tubulin Acetylation Confers Metastatic Potential In Breast Cancer Cells. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015. ***Won 1st Place in Master's Life Science and Overall Categories**
55. Mazambani, S.*, Johnson, K., Vemuri, S., Alsahafi, S., and **Cheriyath, V.** Diadzin-Rich Soy Isoflavone Extracts Increase Estrous Cycling In VCD-induced Menopause Mouse Model. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015. ***Won 3rd Place in Master's Life Science Category**
56. Johnson, K., Khalel, A., and **Cheriyath, V.** G1P3 Alters redox signaling and induces mitochondrial fusion to evade apoptosis in breast cancer cells. 118th Annual Meeting of the Texas Academy of Science, San Antonio, March 6-8, 2015.
57. Johnson, K., Khalel, A., and **Cheriyath, V.** G1P3-induced ROS signaling promotes mitochondrial fusion in breast cancer cells. 2015 Texas Undergraduate Research Day at the Capitol, Austin, March 4, 2015.
58. Miller, M*. and **Cheriyath, V.** Histone H3K27 Tri-methylation mediates metastatic phenotype in breast cancer cells. 2014-2015 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 10, 2015., ***Won 1st Place in Math and Science.**
59. Mazambani, S.*, Johnson, K., Vemuri, S., Alsahafi, S., and **Cheriyath, V.** Diadzin-Rich Soy Isoflavone Extracts Increase Estrous Cycling In VCD-Induced Menopause Mouse Model. 2014-2015 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 10, 2015., ***Won 3rd Place in Math and Science.**
60. Barbosa, G. and **Cheriyath, V.** Clinical Significance Of Histone Methylation Regulators In Breast Cancer. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
61. Bowsher, A. and **Cheriyath, V.** Protein Kinase C (PKC) Mediated Histone H3K27 Tri-Methylation Augments Breast Cancer Cell Metastasis. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
62. Chatham, F. and **Cheriyath, V.** GRIP: A Functional Genomics Platform To Identify And Validate Anti-Estrogen Resistance Genes In ER+ Breast Cancer. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
63. Hill, A., Johnson, K., and **Cheriyath, V.** Bisphenol A Exposure Transgenerationally Promotes Yellow Coat Color And Metabolic Syndromes In Agouti Mice. Texas A&M

System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.

64. Kaur, J. and **Cheriyath, V.** G1P3, An Immuno-Endocrine Induced Mitochondrial Protein Promotes Breast Cancer Metastasis Through Protein Kinase C (PKC) Activation. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
65. Kohansal, M., Qurban, A., and **Cheriyath, V.** Phosphatidylinositol 3-Kinase (PI3K) Controls In Protein Kinase C (PKC)-Induced Epithelial To Mesenchymal Transition And Breast Cancer Cell Metastasis. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
66. Bivona, A., Latson, W., Davenport, A., and **Cheriyath, V.** The Effect Of Masparidin Cortical Neurons And Progressive Spastic Paraplegia In SPG21^{-/-} And SPG21^{+/+} Mice. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
67. Chakkapalli, S., Khalel, A., and **Cheriyath, V.** G1P3-Induced Mitochondrial ROS Regulates Mitochondrial Biogenesis In Breast Cancer Cells. Texas A&M System 12th Annual Pathways Student Research Symposium, Corpus Christi, October 22-23, 2015.
68. Chakkapalli, S., Chatham, F., and **Cheriyath, V.** GRIP, a novel functional genomics strategy to identify and validate antiestrogen resistance genes in breast cancer cells. 2014-2015 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 10, 2015.

Local Meetings

69. Johnson, K.*, Khalel, A., and **Cheriyath, V.** G1P3-induced ROS signal promotes mitochondrial fusion in breast cancer cells to evade apoptosis. 2015 Texas A&M University-Commerce Annual Research Symposium, April 2, 2015. ***Won 1st Place in Undergraduate Category.**
70. Bivona, A., Latson, W., Davenport, A., and **Cheriyath, V.** Loss of masparidin attenuates the growth and maturation of cortical neurons in SPG21^{-/-} mice. 2015 Texas A&M University-Commerce Annual Research Symposium, April 2, 2015. ***Won 1st Place in Graduate Category.**
71. Hill, A., Johnson, K., and **Cheriyath, V.** Transgenerational effects of BPA on Coat Color and Metabolic Syndromes In Agouti Mice. 2015 Texas A&M University-Commerce Annual Research Symposium, April 2, 2015.
72. Chakkapalli, S., Chatham, F., and **Cheriyath, V.** GRIP, a novel functional genomics strategy to identify and validate antiestrogen resistance genes in breast cancer cells. 2015 Texas A&M University-Commerce Annual Research Symposium, April 2, 2015.
73. Mazambani, S.*, Johnson, K., Vemuri, S., Alsahafi, S., and **Cheriyath, V.** Diadzin-Rich Soy Isoflavone Extracts Increase Estrous Cycling In VCD-Induced Menopause Mouse Model. 2015 Texas A&M University-Commerce Annual Research Symposium, April 2, 2015.

2014

Regional Meetings

74. Davenport, A*, Lemanski, L.F. and **Cheriyath, V.** Maspardin loss attenuates mouse cortical neuron growth. 2014 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, 2014. ***Won 1st Place in Math and Science Category**
75. Miller, M. K*. and **Cheriyath, V.** Histone H3K27 trimethylation confers EMT transition in breast cancer cells. 2014 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, 2014. ***Won 2nd Place in Math and Science Category**
76. Gaddipati, L*. and **Cheriyath, V.** G1P3 mediated cytoskeletal reorganization in breast cancer cells. 2014 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, 2014. ***Won 3rd Place in Match and Science Category**

Local Meetings

77. Vemuri, S*, Gaddipatti, L., Miller, M.K. and **Cheriyath, V.** Interferon Stimulated Genes Confer Poor Survival in Breast Cancer Patients, 2014 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 3, 2014. ***Won 1st Place in Undergraduate Category.**
78. Johnson, K., Vemuri, S., Alsaahafi, A., Castillo, R., Gaddipati, L., Khalel, A., Heitholt, J., and **Cheriyath, V.** Dual Effects of Soy Isoflavones on Estrogen Receptor Positive Breast Cancer Cell Growth. 2014 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 3, 2014 (Podium Presentation)
79. Canfield, J., Mazambani, S. and **Cheriyath, V.** Abiotic Stressors Elicits Soybean Phytoalexins with Anti-Cancer Activity, 2014 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 3, 2014.
80. Miller, M.K. and **Cheriyath, V.** Induction of Epithelial to Secretory Phenotype Transition by H3K27 trimethylation Mediates Breast Cancer Metastasis, 2014 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 3, 2014.
81. Davenport, A., Lemanski, L.F. and **Cheriyath, V.** Maspardin loss attenuates mouse cortical neuron growth. TAMUC Annual Research Symposium, 2014.

2013

National and International Meetings:

82. Miller, M. K., and **Cheriyath, V.,** Histone H3K27 tri-methylation induces epithelial to secretory phenotype transition in breast cancer cells to augment metastasis. American Society for Cell Biology Annual Meeting, New Orleans 2013.
83. Gaddipati, L. and **Cheriyath, V.,** G1P3 (ISG 6-16) mediates actin-reorganization to confer resistance to detachment-induced apoptosis (anoikis). American Society for Cell Biology Annual Meeting, 2013.
84. Khalel, A. F., and **Cheriyath, V.,** Role of G1P3 in regulating mitochondrial mediated apoptosis. American Society for Cell Biology Annual Meeting, 2013.
85. Qurban, A., and **Cheriyath, V.,** Interferon-induced P-body formation in breast cancer cells American Society for Cell Biology Annual Meeting, 2013.

Regional Meetings

86. Miller, M. K*. and **Cheriyath, V.** Histone H3K27 trimethylation confers metastatic phenotype transition in breast cancer cells. North Texas Life Science Research Symposium, UNTHSC, 2013. ***Won 2nd Place in Graduate Student Category.**
87. Sun, M., Castillo, R., and **Cheriyath, V.** Role of IRF-1 in Inducing p21 (WAF1/CIP1) Mediated Antiproliferative Effect of IFN- β in Pancreatic Cancer. North Texas Life Science Research Symposium, UNTHSC, 2013. ***Won 3rd Place in Undergraduate Student Category**
88. Vemuri, S., Miller, M. K., Carlson, M. And **Cheriyath, V.** Interferon stimulated genes confers poor survival outcome in estrogen receptor negative breast cancer. North Texas Life Science Research Symposium, UNTHSC, 2013.
89. Gaddipati, L. and **Cheriyath, V.** G1P3 interaction with cytoskeletal actin mediates anoikis resistance in breast cancer, 2013 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 26, 2013.
90. Qurban, A. and **Cheriyath, V.** Role of P-Bodies in Breast Cancer, Federation of Universities Graduate Student Research Symposium, 2013 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 26, 2013.
91. Khalel, A. and **Cheriyath, V.** G1P3, an Immuno-Endocrine Induced Survival Factor Interacts with Bcl-2 and Inhibits Apoptosis, 2013 Federation of North Texas Area Universities Graduate Student Research Symposium, Denton, April 26, 2013.
92. Khalel, A. F. and **Cheriyath, V.** Role of ROS (Reactive Oxygen Species) in Mediating G1P3-induced Breast Cancer Cell Survival. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
93. Miller, M. K. and **Cheriyath, V.** Histone H3K27 trimethylation confers epithelial to secretory phenotype transition in breast cancer cells to mediate metastasis. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
94. Gaddipati, L. and **Cheriyath, V.** Actin reorganization confers resistance to anoikis mediated by G1P3 in breast cancer. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
95. Qurban, A. and **Cheriyath, V.** Role of P-Bodies in Breast Cancer Migration. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
96. Davenport, A., Lemanski, L. F., and **Cheriyath, V.** Loss of Maspardin Attenuates the Growth of Mouse Upper Motor Neuron. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
97. Hudson, M., Davenport, A., Lemanski, L. F., and **Cheriyath, V.** Evaluating cerebellar ataxia in transgenic mouse model of mast syndrome. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
98. Johnson, K., Vemuri, S., Alsaifi, S., Castillo, R., Gaddipati, L., Qurban, A., Khalel, A. F., Heitholt, J. and **Cheriyath, V.** Soyisoflavone Diadzin Promotes Breast Cancer Cell Growth. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.

99. Sun, M., Castillo, R., and **Cheriyath, V.** Cell cycle inhibitor p21 mediates antiproliferative effects of IFN- β in pancreatic cancer cell line BxPC-3 Cells. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
100. Vemuri, S., Miller, M. K., Carlson, M. and **Cheriyath, V.** Interferon stimulated genes confers poor survival outcome in estrogen receptor negative breast cancer. North Texas Life Science Research Symposium, Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.
101. Canfield, J., Mazambani, S., and **Cheriyath, V.** Use of Abiotic Stressors to elicit Unique Soybean Phytoalexins with Anti-Cancer activity. Texas A&M System 11th Annual Pathways Student Research Symposium, Kingsville, November 8, 2013.

Local Meetings

102. Vemuri, S*, Miller, M., and **Cheriyath, V.** Interferon-induced genes correlated with poor prognosis in breast cancer, TAMUC Annual Research Symposium, April 4, 2013. ***Selected to represent the Texas A&M University-Commerce at the Undergraduate Research Day at the Capitol.**
103. Khalel, A. and **Cheriyath, V.** G1P3, an Immuno-Endocrine Induced Survival Factor Interacts with Bcl-2 and Inhibits Apoptosis, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013. ***Won 2nd Place in graduate student poster presentation category**
104. Miller, M., Johnson, K., Murphy, C. and **Cheriyath, V.** Trimethylation of Histone H3K27 Confers Metastatic Phenotype in Breast Cancer, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.
105. Gaddipati, L. and **Cheriyath, V.** G1P3 interaction with cytoskeletal actin mediates anoikis resistance in breast cancer, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.
106. Castillo, R., Sun, M. and **Cheriyath, V.** Induction p21 (WAF1/CIP1) Dependent Cell Cycle Arrest in Pancreatic Cancer Cells by IFN- β , 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.
107. Qurban, A. and **Cheriyath, V.** Role of P-Bodies in Breast Cancer, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.
108. Hunter, M., Davenport, A., Hanna, M., and **Cheriyath, V.** Maspardin as a potential mediator of EGF in cortical neuronal cells, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.
109. Davenport, A., Hunter, M., and **Cheriyath, V.** Role of Maspardin in Trafficking and Signaling of Epidermal Growth Factor, 2013 Texas A&M University-Commerce Annual Research Symposium, Commerce, April 4, 2013.

2012

Regional Meetings

110. Khalel, A*. and **Cheriyath, V.** G1P3, an Immuno-Endocrine Induced Survival Factor Interacts with Bim and Inhibits Apoptosis. Texas A&M System 10th Annual Pathways

Student Research Symposium, Nov 9, 2012. ***Won Top 5% of Graduate Student Category in Life Sciences.**

111. Vemuri, S*, Ingram, S., Miller, M., Murphy, C., and **Cheriyath, V.** (2012). Interferon Stimulated Gene Signature Predicts Poor Outcomes in Breast Cancer. Texas A&M System 10th Annual Pathways Student Research Symposium, Nov 9, 2012. ***Won Top 5% award in Under Graduate Student Category in Life Sciences**
112. Butts, D. and **Cheriyath, V.** (2012). G1P3 Contributes to Anoikis Resistance through Microfilament Reorganization. Texas A&M System 10th Annual Pathways Student Research Symposium, Nov 9, 2012, 2012.
113. Miller, M.K., Murphy, C., Khalel, A., and **Cheriyath, V.** (2012). Trimethylation of Histone H3K27 Confers Metastatic Phenotype in Breast Cancer. Texas A&M System 10th Annual Pathways Student Research Symposium, Nov 9, 2012, 2012.
114. Castillo, R., Gaddipadi, L., Vemuri, S. and **Cheriyath, V.** (2012). Identification of a Soybean Variety with Anti-Cancer Flavanoids. Texas A&M System 10th Annual Pathways Student Research Symposium, Nov 9, 2012.

2011

National and International Meetings:

115. Jankowska, A.M., Szpurka, H., **Cheriyath, V.**, Ng, K., Hu, Z., McDevitt, M., Sauntharajah, Y. and Maciejewski, J.P. Consequences of UTX Dysfunction in Myelodysplastic Syndrome, American Society of Hematology Annual Meeting, 2011.
116. Makishima, H., Khan, S., Jankowska, A., Sugimoto, Y., Zhenbo Hu, Z., **Cheriyath, V.**, Mahfouz, R., Ebrahim, Q., Vatolin, S. and Sauntharajah, Y., et al. EZH2 Is Either Mutated or Downregulated in Patients with Loss of Heterozygosity of Chromosome 7/7q and Leads to Epigenetic Dysregulation Via Histone H3K27, American Society of Hematology Annual Meeting, 2011.

2010

National and International Meetings:

117. Kuhns, M., Kalaycio, M., Reu, F., Maciejewski, J. and **Cheriyath, V.** GSK-3 β Inhibitors in Over-coming Chemoresistance in Multiple Myeloma. American Society of Hematology Annual Meeting, 2010.
118. **Cheriyath, V.**, Kuhns, M., Kalaycio, M and Borden, E.C. Inflammatory signaling genes as predictive markers of vorinostat sensitivity in multiple myeloma. American Association of Cancer Research Annual Meeting, 2010.
119. Luszczek, W., **Cheriyath, V.**, Mekhail, T., Borden, E.C. 5-AZA-dC and HDAC Inhibitor Combination Induced DNA Damage in Small Cell Lung Cancer Cells: Correlation of Resistance to Interferon Stimulated Gene Expression. American Association of Cancer Research Annual Meeting, 2010.

2009

National and International Meetings:

120. **Cheriyath, V.**, Luszczek, W., Jacobs, B.S. and Borden, E.C. Interferon (IFN)-stimulated genes (ISGs) as a resistance mechanism in cancer cell death. Tri-Society Annual Conference: Cellular and Cytokine Interactions in Health and Disease, 2009.

121. **Cheriyath, V.**, Jacobs, B.S., Kuhns, M., Evangelista, P.J., Budd, T.G., Crowe, J.P., Tubbs, R.R., and Borden, E.C. Molecular Role of the Antiapoptotic Protein G1P3 in Cytokine and Endo-crine Mediated Survival Signaling in Breast Cancer Cells. American Association of Cancer Research Annual Meeting, 2009.
122. Luszczyk, W., **Cheriyath, V.**, Mekhail, T., Borden, E.C. Synergistic interaction of 5-aza-deoxycytidine (5-AZA-dC) and histone deacetylase (HDAC) inhibitor MGCD0103 in small cell lung cancer (SCLC) cells. American Association of Cancer Research Annual Meeting, 2009.
123. Mahindra, A., Jacobs, B.S., Kalaycio, M., Borden, E.C. and **Cheriyath, V.** Epigenetic modulators in combination with doxorubicin in multiple myeloma, American Society of Hematology, 2009.

2008

National and International Meetings:

124. **Cheriyath, V.**, Thomas, DG, Baz, R., Kalaycio, M and Borden EC. HDAC inhibitor plus doxorubicin combinations reverse apoptosis resistance in myeloma cells by triggering cathepsin mediated BAX activation, ASH Annual Meeting, 2008.
125. **Cheriyath, V.**, Thomas, DG, Glaser, KB, Greenberg, CH et.al., Epigenetic regulation of IFN- α 2b activity in multiple myeloma by a non-hydroxamate HDAC inhibitor A-423378. AACR Annual Meeting -2008.
126. Luszczyk, W., **Cheriyath, V.**, Mekhail, T., Borden, E.C., Effects of 5-aza-deoxycytidine (5-AZA-dC) and histone deacetylase (HDAC) inhibitors on proliferation and gene expression in small cell lung cancer cells. AACR Annual Meeting -2008.

2007

National and International Meetings:

127. **Cheriyath, V.**, Glaser, K.B., Greenberg, C.H., Kalaycio, M. and Borden, E.C. Epigenetic Regulation of IFN- α 2b in Multiple Myeloma by a Hydroxamic Acid Histone Deacetylase (HDAC) Inhibitor (SAHA) and a non-Hydroxamic Acid HDAC Inhibitor (A-423378). 43rd ASCO Annual Meeting, June 1-5, 2007.
128. **Cheriyath, V.**, Hussein, M.A., Glaser, K.B., Greenberg, C.H. and Borden, E.C. G1P3 (ISG6-16), an Interferon (IFN) stimulated survival factor antagonizes Apo2L/TRAIL induced apoptosis in myeloma cells. AACR Centennial Meeting, April 14-18, 2007.

2006

National and International Meetings:

129. **Cheriyath, V.**, Hussein, M.A. and Borden, E.C. G1P3 an Interferon Stimulated Gene (ISG) antagonizes TRAIL induced apoptosis in Myeloma. Cytokine 2006, ISICR, meeting, Vienna, 2006.
130. **Cheriyath, V.**, Hussein, M.A. and Borden, E.C. Epigenetically Regulated Interferons Activity in Multiple Myeloma by Histone Deacetylase Inhibitors, 97th AACR Annual Meeting, April 1-5, 2006.

2005

131. **Cheriyath, V.**, Nguyen, H., MacLeod, R., Hussein, M.A. and Borden, E.C. Epigenetically Regulated Interferons Activity in Multiple Myeloma by Isotype-Selective HDAC inhibitor MGCD0103. Clin. Cancer Res. 11 [24 Suppl], 9006s. 12-15, 2005.
132. **Cheriyath, V.**, Hussein, M.A. and Borden, E.C. Epigenetically Regulated Interferon (IFN) Stimulated Genes: Potential Role in Augmenting the Antigrowth Activity of IFNs in Multiple Myeloma, 96th AACR Annual Meeting, 2005.
133. **Cheriyath, V.**, Hussein, M.A. and Borden, E.C. Epigenetic Regulators: Potential Role in Augmenting IFNs antitumor Effects in Multiple Myeloma., Think Tank on Molecular Targets in Lymphoid Malignancies, 2005.
134. **Cheriyath, V.**, Nguyen, H., Macleod, R.A., Hussein, M.A. and Borden, E.C. Epigenetic Regulation of IFN Activity in Multiple Myeloma by the Isotype-Selective HDAC Inhibitor MGCD0103., AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics: Discovery, Biology, and Clinical Applications, Philadelphia, 2005.
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PROFESSIONAL SERVICES

Chair, Institutional Biosafety Committee (2017–Current)

As Chair of IBC organized and conducted IBC monthly meetings, drafted TAMUC compliance documents, drafted SOPs, made teaching protocols, assisted with inspections, and reviewed IBC applications. Actively involved in setting up new Biosafety level 2

laboratories in Nursing and Health Science Building.

Director of BioPride (2014–Current)

Founded BioPride, a rigorous 4 day head start orientation program for freshmen Biology majors at the Texas A&M University-Commerce. The first BioPride was launched with 8 students in 2014 that was grown into 24 students in 2016. an indicator of the success and interest of freshmen students in BioPride. The BioPride is a self funded program and for the last 3 years ~\$40,000 was raised to cover the cost of the BioPride program through grants, registration fee, alumni contribution, and donations of Campbell Biology text books from Pearson Education. In 2016, BioPride received a grant (\$8000) from Joint Admission Medical Program to expand the JAMP program at TAMUC and the program was renamed as BioPride-JAMP. The funding from JAMP program enabled us to reduce the registration fee from \$375 to \$200. Feedback from students, immediately after the program and during Fall semester suggest that attending BioPride helped them in their freshmen classes, the main objective of the program.

Member of College T&P Committee (2021-Present). As a member of this committee evaluated the T&P applications received from various departments and made recommendations to the chair.

Chair of Departmental Scholarship Committee (2013–2017, & 2019)

As the chairman of this committee, updated and streamlined criteria for various scholarships and coordinated the screening and distribution of departmental scholarships.

Chair of CoSEA Scholarship Committee (2014)

As chair of this committee for Spring 2014, established the criteria and scoring matrices of various scholarships, coordinated the screening, ranking and award of the scholarships.

Chair of Mendel Society Seminar Committee (2013–Current)

As the chair of this committee, conducted invited seminars. Mendel Society Seminar in 2013 was delivered by Dr. Bridgette Kirkpatrick of Collin County Community College. Dr. Dianna Hynds, Associate Professor at Texas Woman's University (TWU) was the invitee for 2014, and Dr. Laura Hanson, Assistant Professor of TWU was the invitee for 2015 Mendel Society Meeting

Chair of Institutional Effectiveness Plan for Graduate Program in Biology (2013–Current)

As the coordinator of institutional effectiveness plan for graduate program in biology, I coordinated and prepared the institutional effectiveness plans and results from 2013 onward. Also, rubrics were developed for evaluating oral presentations of theses and 595 paper, and established the exit exam criteria.

Member of CoSE Scholarship Committee (2014–2019)

As a member of this committee, assisted i established the criteria and scoring matrices of various scholarships, coordinated the screening, ranking and award of the scholarships.

Member of Undergraduate Research Grant Review Committee (2014-2019)

Reviewed undergraduate research and travel grants in Fall 2018.

Member of T&P Committees (2017-2022)

Reviewed and evaluated tenure and post-tenure packets of faculty from College of Agricultural Sciences and Natural Resources (Dr. Curtis Jones, 4th year tenure track review) and Department of Physics – Dr. Anil Chourasia (Post Tenure Review)

Member of JAMP-program medical/dental admission interview board (2012–Current)

As a member of this committee, evaluated the credentials and personal statements of medical and dental school applicants from Texas A&M University-Commerce. Participated in mock interview process, wrote letters of recommendation, and provided guidance to potential applicants.

Faculty Search Committees at the Departmental/College/University Level

As a Chair or member of faculty search committees actively participated in the development of matrices, screening of applicants, phone -and campus interviews, and the final ranking of candidates that resulted in the recruitment of several outstanding faculty members and or administrators.

Chair of Physiologist Search Committee (2013)

Towards end of Spring 2013, the Department of Biological and Environmental Sciences was forced to fill the unexpected vacancy of the physiologist position by before Fall 2013. I lead this search committee and within the span of 2.5 months committee completed the search and submitted its recommendation in Summer I 2013, which resulted in the recruitment of Dr. Izhar Khan.

Member of Head of the Department Search Committee (2012–2013, 2015–2016)

1. From Spring 2012 onward, resulted in the recruitment of Prof. Larry Lemanski as the head of the department in Fall 2013.
2. Fall 2015 onward, resulted in the recruitment of Dr. Judith Ball in as head of the department in Fall 2016.

Member of Biomedical Scientist Search Committee (2013:--2014)

From Fall 2013 to the end of Spring 2014 resulted in the hiring of Dr. Kodeeswaran Parameswaran in Fall 2014.

Member of College of Science and Engineering (CoSE) Dean Search Committee (2014)

In Spring and in Summer of 2014, actively participated in the search for a CoSE Dean that resulted in the recruitment of the Dean Dr. Brent Donham.

Recruitment and Retention Services (2011–Current)

1. Since 2011, actively participated and took lead in Biology Program's Mane events and addressed perspective students and parents.

2. Since 2011, participated in freshmen and transfer students orientation.
3. In 2016 summer attended all freshmen orientations.
4. In 2015–16, served as an advisor of STEM living and learning community.
5. In 2012, 2014, and 2016, represented biology program at the Graduate Expo events.
6. In 2016 assisted Dr. Ben Jang of Chemistry department and arranged a laboratory tour for visiting students from Richland Community College-Dallas.
7. In 2016 represented Biology program at the Summer Reserach Day at the Richland Community College-Dallas (Two students from my laboratory presented posters.

University Committees

Member of Texas A&M University-Commerce Institutional Animal Care and Use Committee (IACUC), (2011–2016)

An active member of IACUC, started my service in 2011 as an alternate member, become full member in 2013. Attended monthly IACUC meetings, reviewed animal care and use protocols, served as the primary member of inspection team of Animal Care Facility for compliance, reported shortcomings that resulted in several improvements in the facility.

Member of Advisory Committee for the Accessibility of Academic Content (2014–15)

Attended monthly meetings and participated in the formulation of accessibility guidelines for face-to-face and online educational activities at the university, which resulted in a draft guidelines approved by the provost.

Member of Strategic Planning Task Force-Scholarship Committee (2015)

As member of this sub-committee, actively participated in the formulation of University's 5 year strategic plan on Scholarship related activities.

Sponsorship of Student Academic Organizations and Advisement

BetaBetaBeta National Honors Society for Biological Sciences (2013–Current)

I assumed charge as the faculty sponsor of The Delta Gamma chapter of TriBeta National Honors Society for Biological Sciences in 2013. Few achievements during this period include:

1. Won the award for highest student organization GPA award
2. TriBeta membership was increased from 12 to over 50 students
3. Science day for elementary and middle school students of Commerce–ISD
4. Thanksgiving Food drive to help The Commerce Food Pantry at the First Presbyterian Church in Commerce
5. Field trip to Dinosaur Valley State Park
6. Participation in Relay for Life

Graduate and Undergraduate Advisement (2011–Current)

7. Departmental Advisor to undergraduate and graduate students
8. Mentor of McNair Scholar Programs

9. Biology advisor to students in STEM living and learning community

Community Outreach Activities

10. Represented CoSE in Royal roar and described about BioPride to donors.
11. Visited Virginia Reinhardt Elementary school, Rockwall and demonstrated DNA isolation and talked about molecular biology to 6th graders.

Professional Services.

12. Judged posters at the 2014 Annual Meeting of American Society for Cell Biology.
13. Judged posters at the Texas A&M System Annual Pathways Student Research Symposium, 2011–2015)
14. Judged posters at the Federation Graduate Research Symposium held at Texas Woman's University (2013–2016).
15. Judged posters at the North Texas Life Science Symposium, University North Texas Health Science Center, Fort Worth (2014)

Editorship and Peer Reviewing

16.Academic Editor of PlosONE (2014 impact factor 3.234), **(2010–Current)**

17.External Reviewer of

- Molecular Cancer Therapeutics (American Association Cancer Research)
- Molecular Cancer Research
- PlosONE
- British Journal Hematology
- International Journal of Molecular Science

◆ External Examiner of Doctoral Thesis of Savitribai Phule Pune University, India.

- From 2011–2016, reviewed 5 doctoral theses.

PROFESSIONAL DEVELOPMENT

18. **In 2016** Summer, attended Improve Your Online Course (IYOC) from Quality Matters workshop (online)
19. **In 2014** Spring, attended Grant Writing Workshop at the Texas A&M University-Commerce
20. **In 2014** Summer, attended the follow-up meeting of The National Academies Gulf Coast Summer Institute, Louisiana State University, Baton Rouge, LA
21. **In 2014 Summer**, attended the BIOS meeting at the Atlanta organized by Pearson Publishers.
22. **In 2014 Spring**, co-ordinated and organized a BIOS workshop department faculty, Dr. Bill and Dr. Sherri Wischusen's from LSU conducted this workshop.
23. **In 2013 Spring**, attended The National Academies Gulf Coast Summer Institute, Louisiana State University, Baton Rouge, LA
24. **In 2012 Summer**, attended Grant Writing Workshop at the University of Texas, Austin

25. **In 2012 Spring**, attended NSF grant writing workshop at the Texas A&M University-Commerce
26. In addition to attending the scientific conferences and meetings, I have also successfully completed all the mandatory faculty development programs such as Ethics, FERPA, Sexual Harassment Training, CITI training etc. at Texas A & M University–Commerce.

PROFESSIONAL COLLABORATIONS

27. Established collaboration with Dr. Jaroslaw Mciejewski, Chairman of the Department of Translational Hematology and Oncology, Cleveland Clinic, which resulted in a collaborative NIH R03 grant.
28. Collaborating with Dr. Sunati Sahoo, Director of Breast Pathology at UT South Western Medical Center, which resulted in a collaborative NIH R03 grant.
29. Collaborating with Dr. Maria Carlson of Psychology department for identifying the association between interferon stimulated genes and poor outcomes in breast cancer patients. A manuscript is in preparation from this collaboration.
30. Collaborating with Dr. Larry Lemanski on various projects, Head of the Department of Biological and Environmental Sciences and Distinguished Research Professor of TAMUC
31. Collaborated with Dr. Jim Heitholt to test the effects of soyisoflavones on cancer cell growth. A manuscript is in preparation from this collaboration. Also put together a collaborative grant.
32. Established research collaborations with Dr. Bridgette Kirkpatrick (Collins College, TX, USA) and Prof. Ralph Weichselbaum, (Chairman, Department of Radiation and Cellular Biology, The University of Chicago Medical Center, IL, USA).