

SUE ANNE CHEW

Department of Health and Biomedical Sciences
University of Texas Rio Grande Valley
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EDUCATION

B.S. in Chemical Engineering, University of Texas at Austin, Austin, TX **2004**
With a technical focus area in biomedical engineering

Ph.D. in Bioengineering, Rice University, Houston, TX **2010**
Dissertation: "Biodegradable branched polycationic polymers as non-viral gene delivery vectors for bone tissue engineering"

POSITIONS AND EMPLOYMENT

Undergraduate Research Assistant **2003-2004**
Department of Chemical Engineering and Department of Biomedical Engineering, University of Texas at Austin, Austin, TX
PI/Mentor: Dr. Lisa Brannon-Peppas

- Investigated the application of silver PLGA nanoparticles as contrast agents for medical imaging
- Involved in the development of the "Biomedical Engineering Undergraduate Laboratory (BME 221)" Lab Handbook

Research Assistant/Teaching Assistant (Ph.D. Candidate) **2005-2010**
Department of Bioengineering, Rice University, Houston, TX
PI/Mentor: Dr. Antonios G. Mikos

- Developed biodegradable branched polycationic polymers to enhance bone formation in a critical-size rat cranial defect
- Lead tutorial sessions, developed and graded course assignments

Summer Research Intern **2008-2008**
Surface Science Group, Bausch & Lomb, Rochester, NY
Supervisor/Mentor: Dr. Daniel Ammon and Dr. Xinfeng Shi

- Evaluated the release of polymers found in lens solutions from the surface of contact lenses

Research Assistant **2010-2010**
Department of Bioengineering, Rice University, Houston, TX
PI/Mentor: Dr. Antonios G. Mikos

- Developed and characterized biodegradable polymeric microparticles loaded with anti-inflammatory siRNA for intra-articular delivery to the temporomandibular joint

Postdoctoral Associate **2010-2012**
Department of Medicine, Baylor College of Medicine, Houston, TX
PI/Mentor: Dr. Nicholas Mitsiades

- Investigated the regulation of steroid receptor coactivators by the G-protein/PKC/PKD pathway in uveal melanoma
- Evaluated the potential of small molecule phospho kinase C inhibitors for the treatment of prostate cancer

Faculty Associate **2013-2013**
Department of Biomedicine, University of Texas at Brownsville, Brownsville, TX

- Developed biomaterial-based strategies encompassing cells and/or bioactive factors for the treatment of cancer and bone tissue engineering

Research Assistant Professor

2013-2014

Department of Biomedicine, University of Texas at Brownsville, Brownsville, TX

- Developed and delivered B.S. in Biomedical Sciences courses
- Developed biomaterial-based strategies encompassing cells and/or bioactive factors for the treatment of cancer and bone tissue engineering

Program Director, Health Disparities Scholars Program (HDSP)

2013-2015

Department of Biomedicine, University of Texas at Brownsville, Brownsville, TX

- The aim of the program was to increase diversity in the biomedical research workforce by increasing the retention and preparation of students aspiring to research careers
- Mentored and advised HDSP scholars
- Developed and delivered workshops to prepare scholars for PhD programs and a career in biomedical research
- Provided guidance to scholars in preparing their applications to PhD graduate programs and summer research programs including guidance in selecting programs and in preparing their CV, personal statement and/or essays
- Provided guidance to scholars in their application and preparation abstracts and presentations for research conferences

Lecturer

2014-2015

Department of Biomedicine, University of Texas at Brownsville, Brownsville, TX

- Developed and delivered B.S. in Biomedical Sciences courses
- Developed biomaterial-based strategies encompassing cells and/or bioactive factors for the treatment of cancer and bone tissue engineering

Program Director, Biomedical Science Freshman Research Initiative (BFRI)

2013-Present

Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX

- The aim of this program is to increase the opportunities for more undergraduate students to be able to participate in research and increase students' retention, academic success and gain of transferable skills by participating in the program
- Established and direct BFRI in UTB/UTRGV
- Teach BFRI courses (inquiry-based learning, research and scientific methodology, experimental and research techniques)
- Oversea and coordinate BFRI research streams (parallel research projects for a large group of students)
- Coordinate the Annual BFRI Research Symposium (75-80 students present each year)
- Demonstrated that participation in BFRI resulted in increased retention in BMED and UTRGV and students who participated in BFRI were more confident in their potential as a researcher/scientist and more likely to seek more research experience through participation in research in UTRGV faculty laboratory.

Assistant Professor

2015-Present

Department of Health and Biomedical Science, University of Texas Rio Grande Valley, Brownsville, TX

- Develop and deliver B.S. in Biomedical Sciences courses
- Develop biomaterial-based strategies encompassing cells and/or bioactive factors for the treatment of cancer and bone tissue engineering
- Investigate the effects of a course-based undergraduate research experience (CURE) on student retention, academic success and transferable skills

TEACHING EXPERIENCE

Rice University (as teaching assistant)

- Biosystems Transport (Undergraduate Core Course, BIOE 420)
- Design & Analysis of Experiments (Graduate Core Course, BIOE 541) – offered for the first time in the department, was involved in the development of the course
- Thermodynamics (Undergraduate Core Course, BIOE 332)

University of Texas at Brownsville/University of Texas Rio Grande Valley (as instructor)

- Introductory Medical Biochemistry (BMED 1101)
- Introductory Cell Biology (BMED 1103)
- Introductory Molecular Biology (BMED 1104)
- Advanced Cell Biology (BMED 4250) – includes a service-learning component
- Independent Research I, II, III, IV (BMED 3121, 3122, 3223, 3224)
- Biomedical Freshman Research Initiative (BFRI) Research Methods (BMED 3121-BFRI)
- Biomedical Freshman Research Initiative (BFRI) Research Techniques (BMED 3122-BFRI) – includes a service-learning component
- Biomedical Freshman Research Initiative (BFRI) Research Experience I (BMED 3223-BFRI)
- Biomedical Freshman Research Initiative (BFRI) Research Experience II (BMED 3224-BFRI)

ACADEMIC MENTORING EXPERIENCE

- Mentor of Biomedical Sciences B.S. students, University of Texas at Brownsville/University of Texas Rio Grande Valley, 2013-Present
- Mentor of University Scholars, University of Texas at Brownsville, 2013-2015

RESEARCH MENTORING EXPERIENCE

Rice University (as graduate student)

Undergraduate Students

- William D. Shepherd, B.S. Bioengineering, 2007
- Austin Edwards, B.S. Bioengineering, 2008-2009

Baylor College of Medicine (as postdoctoral fellow)

Graduate Students

- Ashesh Shah, M.S. Biotechnology, 2011-2012
- Shrijal Shah, M.S. Biotechnology, 2012

Undergraduate students

- Cheng Ng (SMART Program), B.S. Bioengineering, 2012
- Chung-Jiah Chen (SMART Program), B.S. Bioengineering, 2012

University of Texas at Brownsville/University of Texas Rio Grande Valley (as principal investigator)

Graduate Students

- Marco Arriaga (MBRS-RISE Program), B.S. and M.S. in Biology, 2014-Present (Thesis Committee Chair)
- Antonio Pena, M.S. in Biology, 2016-Present (Thesis Committee Member)

Undergraduate students

- Victor Hinojosa (MBRS-RISE Scholar), B.S. Biomedical Sciences, 2014-Present, University of North Texas Health Science Center Osteopathic Medicine
- Jaime Arredondo (MBRS-RISE Scholar), B.S. in Biomedical Sciences, 2015-2015
- Paul Lenz (MBRS-RISE Scholar), B.S. in Physics, 2015-2015
- Jose Carlos Martinez, B.S. in Biology and Neuroscience and Behavior, Summer 2015
- Daniela Barbosa (MBRS-RISE Scholar), B.S. in Biomedical Sciences, 2015-Present, University of Texas Southwestern Ph.D. in Biomedical Sciences (ABRCMS 2017 Presentation award recipient, SACNAS 2017 Presentation award recipient)
- Carolina Leynes (MBRS-RISE Scholar), B.S. in Biomedical Sciences, 2015-Present
- Daniel Rodriguez De Anda (MBRS-RISE Scholar), B.S. in Biomedical Sciences, 2016-Present (ABRCMS 2016 Presentation award recipient)
- Jesus Roberto Franco, B.S. in Biomedical Sciences (A-PRIME TIME Program, Engaged Scholar Award recipient 2016-2017, SACNAS 2017 Presentation Award recipient), 2015-Present, University of Texas Medical Branch Medical School
- Natasha Vora, B.S. in Biomedical Sciences (A-PRIME TIME Program, Engaged Scholar Award recipient 2016-2017, 2017-2018), 2016-Present, University of Texas Medical Branch Medical School
- Cecilia Valdez (National Alliance for Hispanic Health and the Alliance/Merck *Ciencia* (Science) Hispanic Scholar), B.S. in Human Development and Family Sciences, University of Texas at Austin, Summer 2016
- Elizabeth Lopez, B.S. in Biology, University of Texas at Austin, Summer 2017
- Ashtyn Roush, B.S. in Biomedical Sciences, Summer 2017
- Astrid Gutierrez, B.S. in Biology, 2017-Present (Engaged Scholar Award recipient 2016-2017, ABRCMS 2017 Presentation Award recipient)
- May-Hui Ding, B.S. in Biomedical Sciences, 2017-Present (2018 Texas Society Allied Health Professions (TSAHP) Undergraduate Student Award)
- Sachin George, B.S. in Biomedical Sciences, 2017-Present, University of Texas Medical Branch Medical School
- Jesus Pedraza-Banda, B.S. in Biomedical Sciences, 2019-Present
- Eloy Lozoya, B.S. in Biomedical Sciences, 2019-Present
- Emily Jordan, B.S. in Biomedical Sciences, 2019-Present
- Jaqueline Quintanilla, B.S. in Biomedical Sciences, 2019-Present

High School Students

- Benita Barrera (RGV Summer Science Internship Program), Gladys Porter High School student, Summer 2014
- Grecia Delao (RGV Summer Science Internship Program), James Pace Early College High School student, Summer 2016
- Melanie Beattie (RGV Summer Science Internship Program), Rivera High School student, Summer 2017
- Miranda Nunez (UTRGV High Scholars Program), Brownsville Early College High School student, Summer 2018
- Romeo Garcia Jr. (UTRGV High Scholars Program), Math and Science Academy student, Summer 2019
- Priscilla Mejia (UTRGV High Scholars Program), Math and Science Academy student, Summer 2019
- Jeanette Rochelle (UTRGV High Scholars Program), Math and Science Academy student, Summer 2019
- Vivian Lopez (UTRGV High Scholars Program), Harmony Science Academy student, Summer 2019

SERVICE

Department

- Committee Member, Department of Health and Biomedical Sciences Curriculum Committee, University of Texas at Brownsville/ University of Texas Rio Grande Valley, 2013-Present

- Speaker, “Importance of research for medical students”, A-PRIME Transformation of Medical Education (TIME) Boot Camp 2014, University of Texas at Brownsville, 2014
- Advisory Committee Member (Non-voting member), Mission of the Minority Biomedical Research Support, Research Initiative for Scientific Enhancement (MBRS-RISE), University of Texas at Brownsville, 2014-Present
- Search Committee Member, MBRS-RISE Special Projects Coordinator, University of Texas at Brownsville, 2014
- Speaker, FRI presentation and “Cooking with Science” demonstration, Department of Biomedicine Open House (Recruitment Event), University of Texas at Brownsville, 2014
- Development Team Member, Competency-Based Education Bachelor of Science in Biomedical Sciences Degree Program, University of Texas Rio Grande Valley, 2014-Present
- Advisor/Sponsor, Biomedical Sciences Association (BSA), University of Texas at Brownsville/University of Texas Rio Grande Valley, 2015-Present
- Committee Member, Department of Biomedicine Scholarship Committee, University of Texas at Brownsville, 2014-2015
- Library Liaison for the Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, 2015-Present
- Coordinator, Translational Research Seminar Series (TRSS), University of Texas Rio Grande Valley, 2015-Present
- Search Committee for Open Rank Faculty Positions, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2015-2016
- Speaker, “Freshman Research Initiative” and Closing Remarks for Parents, BMED Pre-Admission Event (recruitment event), Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2016
- Search Committee for Assistant Professor Position, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2016-2017
- Committee Member, Non-tenure Track Annual Evaluation and Promotion Committee, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2016-2018
- Speaker, “Biomedical Freshman Research Initiative” or “The Importance of Research for Biomedical Science Students”, BMED Pre-Admission Event/Open House (recruitment event) and BMED Success Academy, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2016-Present
- Advisor/Sponsor, Project Smile: Mission Trip, University of Texas Rio Grande Valley, 2017-2018
- Speaker, Resilience Workshop: “Time Management” and “Professionalism in Time Management”, University of Texas Rio Grande Valley, Spring 2017, Fall 2017
- Committee Member, Search Committee for 3-Year Lecturer Positions, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2018
- Committee Chair, Search Committee for One-year Appointee and Part-time Lecturer Positions, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2018
- Coordinator, BMED 1102 Introductory Medical Laboratory I and BMED 3121, 3122, 3223, 3224 Independent Research Courses, University of Texas Rio Grande Valley, Brownsville, TX, 2017-Present
- Committee Chair, Search Committee for Assistant Professor in Research Position, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2018
- Committee Chair, Search Committee for Senior Laboratory Technician Position, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2018
- Committee Member, Search Committee for 3-year Lecturer Position, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2019
- Committee Member, Recruitment Committee, Department of Health and Biomedical Sciences, University of Texas Rio Grande Valley, Brownsville, TX, 2019-Present

College

- Thesis Committee Member, Guillermo Eduardo Perez, M.S. in Exercise Science, University of Texas at Brownsville, 2014

- Thesis Committee Member, Omar Apodaca, M.S. in Exercise Science, University of Texas at Brownsville, 2014
- Thesis Committee Member, Joe-Angel Lopez, M.S. in Exercise Science, University of Texas at Brownsville, 2014
- Thesis Committee Member, Kristopher Manuel Nava, M.S. in Exercise Science, University of Texas at Brownsville, 2014
- Committee Member, College of Health Affairs Research Committee, University of Texas Rio Grande Valley, 2017-Present
- Committee Member, College of Health Affairs Research Academy Advisory Team, Spring 2018

University

- Undergraduate Research Working Group, University of Texas Rio Grande Valley, 2017-Present
- Presentation Judge, Engaged Scholar Symposium (ES²) 2018, University of Texas Rio Grande Valley, 2018
- Speaker and Panelist, UTRGV Engaged Scholar Institute, 2018
- Abstract Judge, Engaged Scholar Symposium (ES²) 2019, University of Texas Rio Grande Valley, 2019
- Panelist, UTRGV New Faculty Orientation Faculty Panel: A Faculty's Mindset for Growth & Success, 2019

Professional

- Ad-hoc Reviewer, Biotechnology Progress, 2010
- Guest Editor, Journal of Functional Biomaterials, Special Issue: "Biomaterials Approaches for Cancer Research", 2014-2016
- Panelist, "Undergraduate Research: Lessons Learned Outside UT" Panel, 2nd Annual FRI Conference, Austin, TX, 2014
- Judge, Annual Biomedical Research Conference for Minority Students (ABCRMS), Seattle, WA, 2015
- External Steering Committee, Freshman Research Initiative (FRI) Conference 2016, University of Texas at Austin, 2015-2016
- Ad-hoc Peer Reviewer, Journal of Biomedical Materials Research Part B, 2016
- Ad-hoc Peer Reviewer, International Journal of Oncology, 2016
- External Examiner, Mario Milazzo Ph.D. Thesis, Doctoral Program in BioRobotics, Sant'Anna School of Advanced Studies in Pisa, 2016
- Ad-hoc Peer Reviewer, Advanced Healthcare Materials, 2016, 2017
- Reviewer, NSF Graduate Research Fellowship Program (GRFP), 2018 and 2019
- Ad-hoc Peer Reviewer, Advanced Therapeutics, 2018
- Ad-hoc Peer Reviewer, Experimental and Therapeutic Medicine, 2018
- ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN) Grant Reviewer, 2019
- Ad-hoc Peer Reviewer, Pharmaceuticals, 2019
- Ad-hoc Peer Reviewer, Journal of Latinos and Education, 2019
- Ad-hoc Peer Reviewer, International Journal of Oncology, 2019

Community

- Judge, 54th Annual Science and Engineering Fair, 2014
- Speaker, Career Exploration Day, Sharp Elementary School, Brownsville, TX, 2014
- Speaker, "Tissue Engineering: Regenerating Tissue in Humans", Monday Night Science Café, Department of Physics and Astronomy, University of Texas at Brownsville, Brownsville, TX, 2015
- Judge, 8th Annual Science Fair, Harmony Science Academy Brownsville, 2015
- Judge, Episcopal Day School Science Fair, Brownsville, TX, 2017
- Judge, Episcopal Day School Science Fair, Brownsville, TX, 2018
- Judge, Episcopal Day School Science Fair, Brownsville, TX, 2019

PROFESSIONAL MEMBERSHIP

- Tau Beta Pi Honors Society (TBP), 2002-2004
- American Institute of Chemical Engineers (AIChE), 2008-2009
- Endocrine Society, 2012-2013
- American Association of Cancer Research, 2015-2016, 2018-2019

HONORS AND AWARDS

- University of Texas at Austin Honors Day College Scholar Honoree, TX, 2002-2004
- Induction into Tau Beta Pi Engineering Honors Society, 2003
- 5th Marie Curie Cutting Edge InVENTS Conference Travel Grant 2008
- UTRGV Faculty Development Funding Program Travel Grant, Fall 2015
- UTRGV Junior Faculty Travel Support Program Award, Spring 2016
- 2016 American Association of Cancer Research (AACR) Minority-Serving Institution Faculty Scholar in Cancer Research Award, 2016
- UTRGV College of Health Affairs Research Fellow, 2016-2017
- 9th Conference on Understanding Interventions that Broaden Participation in Science Careers Travel Award, 2017
- UTRGV Summer Writing Program Recipient, UTRGV, Summer 2017
- 2017 Synthetic Biology: Engineering, Evolution & Design (SEED) Travel Subsidy, 2017
- 2018 American Association of Cancer Research (AACR) Minority and Minority-Serving Institution Faculty Scholar in Cancer Research Award, 2018
- UTRGV College of Health Affairs Student Engagement in Research Award, August 2018
- 2019 Minnie Stevens Piper Teaching Award UTRGV Nominee, 2018-2019
- University of Texas Systems Regent's Outstanding Teaching Award (ROTA), 2019
- UTRGV College of Health Professions Student Community Engagement and Service Learning Award, August 2019
- UTRGV College of Health Professions Grant Writing Award, August 2019
- UTRGV Center for Teaching Excellence's (CTE) Faculty Spotlight on Teaching, September 2019

PROFESSIONAL DEVELOPMENT

- Advances in Tissue Engineering Short Course 2007, Houston, TX, August 2007
- 5th Marie Curie Cutting Edge InVENTS Conference on "Synthesis and applications of self-assembling materials at nano-scale", Madeira, Portugal, April 2008
- 8th World Biomaterials Congress, Amsterdam, Netherlands, May 2008
- Advances in Tissue Engineering Short Course 2008, Houston, TX, August 2008
- American Institute of Chemical Engineers (AIChE) Annual Meeting, Philadelphia, PA, November 2008
- Houston Society for Engineering in Medicine and Biology (HSEMB) 26th Annual Meeting, Houston, TX, March 2009
- Advances in Tissue Engineering Short Course 2009, Houston, TX, August 2009
- Advances in Tissue Engineering Short Course 2010, Houston, TX, August 2010
- ENDO 2012: The 95th Annual Meeting & Expo, Houston, TX, June 2012
- "Flipping University Classroom" and "The Flipped Classroom: What's Next?" by Jonathan Bergmann (Flipped Learning LLC), UTRGV, August 2013
- "Grant Writing" by Don T. Frazier, Ph.D. (Director, Outreach Center for Science and Career Opportunities, Professor Emeritus, Department of Physiology, College of Medicine, University of Kentucky), November 2013
- Annual Biomedical Research Conference for Minority Students (ABCRMS), Nashville, TN, November 2013
- "The Intentional Mentor: Effective Mentorship of Undergraduate Science Students" by Dr. Julio Ramirez (R. Stuart Dickson Professor of Psychology, Davidson College), January 2014
- "Minority Scientists: Where are they and why should we care?" by Dr. Thomas Landefeld (Professor of Biology and Pre-Health Advisor, California State University Dominguez Hills), March 2014

- 2nd Annual Freshman Research Initiative Conference, Austin, TX, March 2014
- Annual Biomedical Research Conference for Minority Students (ABCRMS), Seattle, WA, November 2015
- Biennial Freshman Research Initiative Conference, Austin, TX, March 2016
- American Association of Cancer Research (AACR) Annual Meeting, New Orleans, LA, April 2016
- NIH Regional Seminars on Program Funding and Grants Administration, Baltimore, MA, May 2016
- 10th World Biomaterials Congress, Montreal, Canada, May 2016
- "Integrating Authentic Research Experiences into Courses" workshop by Dr. Stacia Rodenbusch (Director of the Freshman Research Initiative at UT Austin), UTRGV, June 2016
- College of Health Affairs Research Fellows Meetings, UTRGV, 2016-2017
- 9th Conference on Understanding Interventions that Broaden Participation in Science Careers, San Antonio, TX, March 2017
- UTRGV Teaching and Learning 2017 Symposium, UTRGV, May 2017
- UTRGV Summer Writing Program, UTRGV, Summer 2017
- 2017 Synthetic Biology: Engineering, Evolution & Design (SEED), Vancouver, Canada, 2017.
- UTRGV School of Medicine Inaugural Research Symposium, Edinburg, TX, August 2017.
- UTRGV SOM Team Based Learning (TBL) 101 and Writing an Effective TBL Module Workshop by Ruth Levine from UTMB, Edinburg, TX, February 2018.
- 41st Annual TSAHP Conference "Preparing the 21st Century Workforce", San Antonio, TX, September 2018.
- 6th International Conference on Stem Cell Engineering, Los Angeles, CA, December 2018.
- 'IMERS' Yourself! Faculty Grant-Writing Workshop, University of Kentucky, March 2019

PEER-REVIEWED PUBLICATIONS (^UUndergraduate student, ^GGraduate student, ^HHigh school student)

1. **Sue Anne Chew**, Michael C. Hacker, Anita Saraf, Robert M. Raphael, F. Kurtis Kasper and Antonios G. Mikos, Biodegradable Branched Polycationic Polymer with Varying Hydrophilic Spacers for Non-Viral Gene Delivery, *Biomacromolecules*, 10, 2436-2445 (2009).
2. **Sue Anne Chew**, Michael C. Hacker, Anita Saraf, Robert M. Raphael, F. Kurtis Kasper and Antonios G. Mikos, Altering Amine Basicities in Biodegradable Branched Polycationic for Non-Viral Gene Delivery, *Biomacromolecules*, 11, 600-609 (2010).
3. **Sue Anne Chew**, James D. Kretlow, Patrick P. Spicer, Austin W. Edwards, F. Kurtis Kasper and Antonios G. Mikos, Delivery of Plasmid DNA Encoding Bone Morphogenetic Protein-2 with a Biodegradable Branched Polycationic Polymer in a Rat Critical-Size Defect Model, *Tissue Eng. Part A*, 17(5-6), 751-763 (2011).
4. Paschalia M. Mountziaris, David C. Sing, **Sue Anne Chew**, Stephanie N. Tzouanas, E. Denny Lehman, F. Kurtis Kasper, and Antonios G. Mikos, Controlled Release of Anti-Inflammatory siRNA from Biodegradable Polymeric Microparticles Intended for Intra-Articular Delivery to the Temporomandibular Joint, *Pharm. Res.*, 28(6), 1370-1384 (2011).
5. Nicholas Mitsiades, **Sue Anne Chew**, Bin He, Aline I. Riechardt, Theano Karadedou, Vassiliki Kotoula and Vassiliki Poulaki, Genotype-Dependent Sensitivity Of Uveal Melanoma Cell Lines To Inhibition of B-Raf, MEK And Akt Kinases: Rationale For Personalized Therapy, *Investigative Ophthalmology and Visual Science*, 52(10), 7248-7255 (2011).
6. Clark J. Needham, Austin K. Williams, **Sue Anne Chew**, F. Kurtis Kasper and Antonios G. Mikos, Engineering a polymeric gene delivery vector based on poly(ethylenimine) and hyaluronic acid, *Biomacromolecules*, 13(5), 1429-1437 (2012).
7. Chuandong Geng, Bin He, Limei Xu, Christopher E. Barbieri, Vijay Kumar Eedunuri, **Sue Anne Chew**, Martin Zimmermann, Richard Bond, John Shou, Chao Li, Mirjam Blattner, David M. Lonard, Francesca Demichelis, Cristian Coarfa, Mark A. Rubin, Pengbo Zhou, Bert W. O'Malley and Nicholas Mitsiades, Prostate cancer-associated mutations in speckle-type POZ protein (SPOP) regulate steroid receptor coactivator 3 protein turnover, *Proc Natl Acad Sci*, 110(17), 6997-7002 (2013).
8. Jasmina Z. Cerne , Sean M. Hartig , Mark P. Hamilton , **Sue Anne Chew**, Nicholas Mitsiades and Vassiliki Poulaki and Sean E. McGuire, Protein kinase C inhibitors sensitize GNAQ mutant uveal melanoma cells to ionizing radiation, *Investigative Ophthalmology and Visual Science*, 55(4), 2130-2139 (2014).
9. Chuandong Geng, Kimal Rajapaksh, Shrijal S. Shah, John Shou, Vijay Kumar Eedunuri, Christopher Foley, Warren Fiskus, Mahitha Rajendran, **Sue Anne Chew**, Martin Zimmermann, Richard Bond, Bin He, Cristian

- Coarfa and Nicholas Mitsiades, Androgen receptor is the key transcriptional mediator of the tumor suppressor SPOP in prostate cancer, *Cancer Research*, 74 (19), 5631-5643 (2014).
10. Bin He, Rainer B. Lanz, Warren Fiskus, Chuandong Geng, Ping Yi, Sean M. Hartig, Kimal Rajapakshe, John Shou, Liping Wei, Shrijal S. Shah, Christopher Foley, **Sue Anne Chew**, Vijay K. Eedunuri, Diego J. Bedoya, Qin Feng, Takashi Minami, Constantine S. Mitsiades, Anna Frolov, Nancy L. Weigel, Susan G. Hilsenbeck, Daniel G. Rosen, Timothy G. Palzkill, Michael M. Ittmann, Yongcheng Song, Cristian Coarfa, Bert W. O'Malley and Nicholas Mitsiades, GATA2 facilitates steroid receptor coactivator (SRC) recruitment to the androgen receptor (AR) complex in prostate cancer cells, *Proc Natl Acad Sci*, 111(51), 18261-18266 (2014).
 11. Vijay Kumar Eedunuri*, Kimal Rajapakshe*, Warren Fiskus*, Chuandong Geng, **Sue Anne Chew**, Christopher Foley, Shrijal S. Shah, John Shou, Junaith Mohamed, Cristian Coarfa, Bert W. O'Malley and Nicholas Mitsiades, MiR137 targets p160 Steroid Receptor Coactivators SRC1, SRC2 and SRC3 and inhibits cell proliferation, *Molecular Endocrinology*, 29(8), 1170-83 (2015).
 12. Cristian Coarfa*, Warren Fiskus*, Vijay Kumar Eedunuri, Kimal Rajapakshe, Christopher Foley, **Sue Anne Chew**, Shrijal S. Shah, Chuandong Geng, John Shou, Junaith Mohamed, Bert W. O'Malley and Nicholas Mitsiades, Comprehensive proteomic profiling identifies the androgen receptor axis and other signaling pathways as targets of microRNAs suppressed in metastatic prostate cancer, *Oncogene* (2015). doi: 10.1038/onc.2015.295. [Epub ahead of print]
 13. **Sue Anne Chew**, Marco A. Arriaga^U and Victor A. Hinojosa^U, Effects of surface area to volume ratio of PLGA scaffolds with different architectures on scaffold degradation characteristics and drug release kinetics, *Journal of Biomedical Materials Research Part A*, 104(5):1202-11 (2016).
 14. **Sue Anne Chew**, Victor A. Hinojosa^U and Marco A. Arriaga^U, Bioresorbable polymer microparticles in the medical and pharmaceutical fields, in *Bioresorbable polymers for biomedical applications, From fundamentals to translational medicine*, G. Perale and J. Hilborn, Editor (2016) Elsevier.
 15. **Sue Anne Chew** and Serena Danti, Biomaterial-Based Implantable Devices for Cancer Therapy, *Advanced Healthcare Materials*, 6(2) (2017) doi: 10.1002/adhm.201600766.
 16. Daniel Rodriguez de Anda^U, Nareg Ohannesian, Karen S. Martirosyan and **Sue Anne Chew**, Effects of solvent used for fabrication on drug loading and release kinetics of electrosprayed temozolomide-loaded PLGA microparticles for the treatment of glioblastoma, *Journal of Biomedical Materials Research Part B*, (2019) doi: 10.1002/jbm.b.34324.
 17. Marco A. Arriaga^G, May-Hui Ding^U, Astrid S. Gutierrez^U and **Sue Anne Chew**, The application of microRNAs in biomaterial scaffold-based therapies for bone tissue engineering, *Biotechnology Journal*, (2019). doi: 10.1002/biot.201900084.
 18. Arkene Levy, Mirza Baig, Carolina Leynes^U and **Sue Anne Chew**, The application of biomaterials in platinum resistant ovarian cancer therapy, *ChemMedChem*, (2019), doi: 10.1002/cmdc.201900450.
 19. Natasha Vora^U, Kristina Vatcheva, Manuel G. Saldivar, Saraswathy Nair, Michael Lehker and **Sue Anne Chew**, Biomedical Freshman Research Initiative: A course-based undergraduate research experience at a minority-serving institution, *Journal of Latino and Education*, (2019). (Under review).
 20. Natasha Vora^U, Sachin George^U and Sue Anne Chew, Designing Undergraduate Research Programs to Increase Participation and Retention of Hispanic College Students in Science, *Journal of Latino and Education*, (2019). (Under review).

RESEARCH PRESENTATIONS (^UUndergraduate student, ^GGraduate student, ^HHigh school student)

International

1. **Sue Anne Chew**, Michael C. Hacker, Antonios G. Mikos, *Biodegradable hyperbranched polycationic polymers with varying hydrophilic spacer length for gene delivery*, 8th World Biomaterials Congress, Amsterdam, Netherlands, May 2008.
2. **Sue Anne Chew**, Marco A. Arriaga^U, Victor A. Hinojosa^U, *Effects of surface area to volume ratio of PLGA scaffolds with different architecture on scaffold degradation rate and drug release kinetics*, 10th World Biomaterials Congress, Montreal, Canada, May 2016.

National

1. **Sue Anne Chew**, Michael C. Hacker, Anita Saraf and Antonios G. Mikos *Biodegradable hyperbranched polycationic polymers with varying amine monomers for non-viral gene delivery*, 5th Marie Curie Cutting Edge

InVENTS Conference on “Synthesis and applications of self-assembling materials at nano-scale”, Madeira, Portugal, April 2008.

2. **Sue Anne Chew**, Michael C. Hacker, Anita Saraf and Antonios G. Mikos, *Effect of hydrophilic spacer length on the complexation of novel biodegradable hyperbranched polycationic polymers and plasmid DNA for non-viral gene delivery*, American Institute of Chemical Engineers (AIChE) Annual Meeting, Philadelphia, PA, November 2008.
3. Vassiliki Poulaki, **Sue Anne Chew**, Bin He, Nicholas Mitsiades, Genotype-Dependent Sensitivity Of Ocular Melanoma Cell Lines To Inhibitors Of Kinases, Including BRAF, MEK And Akt: Rationale For Personalized Therapy, The Association for Research in Vision and Ophthalmology (ARVO) 2011 Annual Meeting, Fort Lauderdale, FL, May 2011.
4. Vassiliki Poulaki, **Sue Anne Chew**, Bin He, Vijay Kumar Eedunuri, Diego Jacinto Bedoya, Martine J. Jager, Bert W. O'Malley, Nicholas Mitsiades, The Protein Kinase C (PKC)/Protein Kinase D (PKD)/Steroid Receptor Coactivator (SRC)-3 pathway is an important therapeutic target in G α -mutant Uveal Melanomas, The Association for Research in Vision and Ophthalmology (ARVO) 2012 Annual Meeting, Fort Lauderdale, FL, May 2012.
5. **Sue Anne Chew**, Bin He, Vijay Kumar Eedunuri, Diego Jacinto Bedoya, Chuandong Geng, Ashesh Shah, Vassiliki Poulaki, David Lonard, Bert W. O'Malley, Nicholas Mitsiades, *Regulation of steroid receptor coactivator (SRC)-3 expression and function by mutant G proteins in cancer*, ENDO 2012: The 95th Annual Meeting & Expo, Houston, TX, June 2012.
6. Bin He, **Sue Anne Chew**, Vijay Kumar Eedunuri, Chuandong Geng, Diego Jacinto Bedoya, Ashesh Shah, Nicholas Mitsiades, *GATA2 as a novel therapeutic target for castration-resistant prostate cancer (CRPC)*, ENDO 2012: The 95th Annual Meeting & Expo, Houston, TX, June 2012.
7. Bin He, Rainer Lanz, Chuandong Geng, **Sue Anne Chew**, Vijay Kumar Eedunuri, Bert W O'Malley, Nicholas Mitsiades, *Genomic recruitment of the p160 family of steroid receptor coactivators (SRCs) in prostate cancer cells*, ENDO 2012: The 95th Annual Meeting & Expo, Houston, TX, June 2012.
8. Vijay Kumar Eedunuri, Diego Jacinto Bedoya, **Sue Anne Chew**, Ashesh Shah, Bin He, David Lonard, Bert W O'Malley, Nicholas Mitsiades, *Small molecule protein kinase C inhibitors as promising therapeutic agents for prostate cancer treatment*, ENDO 2012: The 95th Annual Meeting & Expo, Houston, TX, June 2012.
9. Vassiliki Poulaki, **Sue Anne Chew**, Bin He, Vijay Kumar Eedunuri, Martine M. Jager, Bert W. O'Malley, Nicholas Mitsiades, Microphthalmia-associated transcription factor (MITF) and Steroid Receptor Coactivator (SRC)-3 cooperate to promote proliferation, survival and metabolism in G α -mutant uveal melanoma (UM) cells, The Association for Research in Vision and Ophthalmology (ARVO) 2013 Annual Meeting, Seattle, WA, May 2013.
10. Vassiliki Poulaki, **Sue Anne Chew**, Bert W O'Malley, Nicholas Mitsiades, Sensitivity and Resistance of Uveal Melanoma (UM) cells to PKC inhibition: Role of the Steroid Receptor Coactivator (SRC)-3, The Association for Research in Vision and Ophthalmology (ARVO) 2014 Annual Meeting, Orlando, FL, May 2014.
3. **Sue Anne Chew** and Manuel Saldivar, *Freshman Research Initiative in the Department of Health and Biomedical Sciences at the University of Texas Rio Grande Valley*, 2016 Freshman Research Initiative Conference, Austin, TX, March 2016.
4. **Sue Anne Chew**, Marco A. Arriaga^U, Jesus R. Franco^U, Daniela Barbosa^U, Victor A. Hinojosa^U, Jose Carlos Martinez^U and Paul Lenz^U, *Fabrication of minocycline loaded PLGA microparticles for the treatment of intracranial tumors*, American Association of Cancer Research Annual Meeting 2016, New Orleans, LA, April 2016.
5. Marco A. Arriaga^U, Victor A. Hinojosa^U and **Sue Anne Chew**, *Easy and economical mold-less technique for the fabrication of PLGA scaffolds with different architectures*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Long Beach, CA, October 2016. **(SACNAS Travel Award)**
6. Carolina Leynes^U, Marco A. Arriaga^G and **Sue Anne Chew**, *A study of the in vitro degradation of porous PLGA scaffolds with different porogen volume percent for bone tissue engineering applications*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Long Beach, CA, October 2016. **(SACNAS Travel Award)**
7. Daniel A. Rodriguez de Anda^U, Marco A. Arriaga^G and **Sue Anne Chew**, *Development of Poly(lactic-co-glycolic acid) Microparticles Loaded with the Chemotherapy Drug Temozolomide for the Treatment of Glioblastoma*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa FL, November 2016. **(Engineering, Physics and Mathematics Poster Presentation Award)**

8. Daniela Barbosa^U, Victor A. Hinojosa^U, Marco A. Arriaga^G, Cecilia Valdez^U and **Sue Anne Chew**, *An Investigation of Fabrication Parameters of Minocycline Loaded PLGA Microparticles for the Treatment of Glioblastomas*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa FL, November 2016.
9. Carolina Leynes^U, Marco A. Arriaga^G and **Sue Anne Chew**, *Investigation of the Effects of Porogen Amount and Size Range on the Degradation of Porous PLGA Scaffolds for Bone Tissue Engineering Applications*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Tampa FL, November 2016.
10. Marco A. Arriaga^U, Carolina Leynes^U and **Sue Anne Chew**, *A study of PLGA scaffolds with different porosity for bone tissue engineering applications*, Tissue Engineering and Regenerative Medicine International Society Americas (TERMIS-AM) Annual Conference and Exhibition, San Diego, CA, December 2016.
11. Natasha Vora^U, Manuel G. Saldivar and **Sue Anne Chew**, *Biomedical Sciences Freshman Research Initiative (BFRI) at The University of Texas Rio Grande Valley – An Opportunity to Expose A Larger Number of Underrepresented Students to Research*, 9th Conference on Understanding Interventions that Broaden Participation in Science Careers, San Antonio, TX, March 2017.
12. Sue Anne Chew, Marco A. Arriaga^G and Astrid S. Gutierrez^U, *The Application of miRNA in Bone Tissue Engineering*, 2017 Synthetic Biology: Engineering, Evolution & Design (SEED), Vancouver, Canada, 2017.
13. Carolina Leynes^U, Melanie Beattie^H, Marco A. Arriaga^G and **Sue Anne Chew**, *A Study of Porous Polycaprolactone (PCL) Scaffolds with Different Porogen Amount and Size Ranges for Bone Tissue Engineering*, 2017 Biomedical Engineering Society (BMES) Annual Meeting, Phoenix, AZ, October 2017.
14. Jesús Roberto Franco^U, Marco A. Arriaga^G, **Sue Anne Chew**, *Optimization of the Fabrication Method of W/O/W Minocycline Loaded PLGA Microparticles for Glioblastomas*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017. **(SACNAS Travel Award and Poster Presentation Award)**
15. Daniela Barbosa^U, Victor A. Hinojosa^U, Marco A. Arriaga^G, Elizabeth Lopez^U, **Sue Anne Chew**, *Manipulation of Different Fabrication Parameters of PLGA/Minocycline Microparticles for the Treatment of Gliomas*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017. **(SACNAS Travel Award and Poster Presentation Award)**
16. Marco A. Arriaga^G, Astrid S. Gutierrez^U and **Sue Anne Chew**, *MiRNA-Induced Mesenchymal Stem Cells for Bone Tissue Engineering Applications*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017. **(SACNAS Travel Award)**
17. Daniel A. Rodriguez De Anda^U, **Sue Anne Chew**, *Controlled Release of Chemotherapy Drug Temozolomide from Poly(lactic-co-glycolic acid) Loaded Microparticles Fabricated by Electrospraying*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017.
18. Carolina Leynes^U, Melanie Beattie^H, Marco A. Arriaga^G, **Sue Anne Chew**, *Porous PCL scaffolds with Different Amount of Porogen and Size Range for Bone Tissue Engineering: A Study of Scaffold Degradation and Cell Proliferation*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017. **(SACNAS Travel Award)**
19. Daniela Barbosa^U, Victor A. Hinojosa^U, Marco A. Arriaga^G, Elizabeth Lopez^U, **Sue Anne Chew**, *Sizing Effects of PLGA/Minocycline Microparticles with Different Fabrication Parameter for the Treatment of Gliomas*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ, November 2017. **(Poster Presentation Award)**
20. Daniel A. Rodriguez De Anda^U, **Sue Anne Chew**, *Controlled Release of Chemotherapy Drug Temozolomide from Poly(lactic-co-glycolic acid) Loaded Microparticles Fabricated by Electrospraying*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ, November 2017.
21. Carolina Leynes^U, Melanie Beattie^H, Marco A. Arriaga^U, **Sue Anne Chew**, *Accelerated Degradation of Porous PCL Scaffolds with Different Amount of Porogen and Size Range for Bone Tissue Engineering*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ, November 2017.
22. Astrid S. Gutierrez^U, Marco A. Arriaga^G and **Sue Anne Chew**, *The Evaluation of Different Osteogenic Inducing MicroRNAs for Bone Tissue Engineering*, Annual Biomedical Research Conference for Minority Students (ABRCMS), Phoenix, AZ, November 2017. **(ABRCMS Travel Award and Poster Presentation Award)**

23. Astrid S. Gutierrez^U, Marco A. Arriaga^G, May-Hui Ding^U and **Sue Anne Chew**, *The evaluation of 10 osteogenic inducing microRNAs for bone tissue engineering applications*, Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) The National Diversity in STEM Conference, Salt Lake City, UT, October 2017. **(SACNAS Travel Award)**.
24. **Sue Anne Chew**, Marco A. Arriaga^G, Astrid S. Gutierrez^U and May-Hui Ding^U, *The application of osteogenic inducing miRNAs for bone tissue engineering*, 6th International Conference on Stem Cell Engineering 2018, Los Angeles, CA, December 2018.

Local/Regional

1. **Sue Anne Chew**, William D. Shepard, Michael C. Hacker, Antonios G. Mikos, *Synthesis and characterization of biodegradable polycationic polymers for non-viral gene delivery*, Advances in Tissue Engineering Short Course 2007, Houston, TX, August 2007.
2. **Sue Anne Chew**, Michael C. Hacker, Antonios G. Mikos, *Biodegradable hyperbranched polycationic polymers with varying hydrophilic spacer length for gene delivery*, Advances in Tissue Engineering Short Course 2008, Houston, TX, August 2008.
3. **Sue Anne Chew**, Michael C. Hacker, Antonios G. Mikos, *Biodegradable hyperbranched polycationic polymers with varying hydrophilic spacer length for gene delivery*, Advances in Tissue Engineering Short Course 2009, Houston, TX, August 2009.
4. **Sue Anne Chew**, Michael C. Hacker, Anita Saraf and Antonios G. Mikos, *Effect of Types of Amines on the Complexation of Novel Biodegradable Hyperbranched Polycationic Polymers and Plasmid DNA for Non-Viral Gene Delivery*, Houston Society for Engineering in Medicine and Biology 26th Annual Meeting, Houston, TX, March 2009.
5. John Shou, **Sue Anne Chew**, Nicholas Mitsiades, Vijay Kumar Eedunuri, Xiaoyong Fu, Gary Chamness, Kent Osborne, and Rachel Schiff, *The PKC inhibitor PKC412 antagonizes breast cancer cell growth and enhances tamoxifen sensitivity*, 35th Annual Cancer Therapy Research Center-American Association of Cancer Research (CTRC-AACR) San Antonio Breast Cancer Symposium, San Antonio, TX, December 2012.
6. **Sue Anne Chew**, *Biodegradable branched polycationic polymers as non-viral gene delivery vectors for bone tissue engineering*, Translational Research Seminar Series, University of Texas at Brownsville, Brownsville, TX, November 2013. **(Invited)**
7. **Sue Anne Chew**, *Tissue Engineering and Regeneration*, Institute of Electrical and Electronics Engineers (IEEE) UTB Student Chapter, University of Texas at Brownsville, TX, April 2014 **(Invited)**.
8. Marco Arriaga, Victor Hinojosa, Benita Barraza, **Sue Anne Chew**, *Fabrication and characterization of PLGA scaffolds with different architecture for controlled drug delivery*, Pan American Collaboration for Ethics in the Professions (PACE) 6th Annual Conference, Edinburg, TX, November 2014. **(Bioethics Student Research Award Winner)**
9. Marco A. Arriaga^G, Carolina Leynes^U, Ivan Davila, Karen Martirosyan, Sue Anne Chew, *An Investigation of Porous PCL Scaffolds with Different Amount of Porogen and Size Ranges for Bone Tissue Engineering*, Biomaterials Day at UT Austin 2017, Austin, TX, April 2017
10. **Sue Anne Chew**, Manuel Saldivar and Natasha Vora^U, *Biomedical Sciences Freshman Research Initiative (BFRI) – An Opportunity to Expose a Large Number of Students to Research*, UTRGV Teaching and Learning 2017 Symposium, Edinburg, TX, May 2017.
11. Maria T. Casteneda Licon, Ming-Tsan Lu, Lorena Lopez, **Sue Anne Chew** and Hugo Rodriguez, *Evaluation of Health and Biomedical Science Students in a Moving Up/Resilience Workshop*, UTRGV Teaching and Learning 2017 Symposium, Edinburg, TX, May 2017.
12. Manuel G. Saldivar, **Sue Anne Chew**, Hugo Rodriguez, Saraswathy Nair and Michael Lehker, *Identifying Student Characteristics that Impact College GPA: A Predictive Modeling Study*, UTRGV Teaching Excellence Symposium, Edinburg, TX, February 2018.
13. Natasha Vora^U, Manuel G. Saldivar and **Sue Anne Chew**, *Biomedical Sciences Freshman Research Initiative (BFRI) at The University of Texas Rio Grande Valley – An Opportunity to Expose A Larger Number of Underrepresented Students to Research*, The 2018 Innovations in Health Science Education Annual Conference, Austin, TX, February 2018. **(1st Place Poster Award)**
14. **Sue Anne Chew**, Natasha Vora^U and Sachin George^U, *Developing an Undergraduate Research Experience Program in a Minority Institution: A Strategy to Prepare Allied Healthcare Profession Students for the Workforce*, 41st Annual TSAHP Conference "Preparing the 21st Century Workforce", San Antonio, TX, September 2018.

15. Sachin George^U, Natasha Vora^U and **Sue Anne Chew**, *Preparation of Underrepresented Healthcare Profession Students by Providing Them Early Research Experience*, 41st Annual TSAHP Conference "Preparing the 21st Century Workforce", San Antonio, TX, September 2018.
16. Astrid Gutierrez^U, Marco A. Arriaga^G, May-Hui Ding and **Sue Anne Chew**, *The Study of Osteogenic Inducing MicroRNA's for Bone Tissue Engineering Applications*, 41st Annual TSAHP Conference "Preparing the 21st Century Workforce", San Antonio, TX, September 2018. (**1st Place Student Poster Competition**)
17. Sachin George^U, Natashar Vora^U, Kristina Vatcheva, Hugo Rodriguez and **Sue Anne Chew**, *Preparation of Potential Underrepresented Healthcare Profession Students through Undergraduate Research Experience*, The 2019 Innovations in Health Science Education Annual Conference, Austin, TX, February 2019

FUNDING/SUPPORT

- University of Texas Higher Education Assistance Fund (UTB-HEAF) dedicated for equipment, **Principal Investigator**, 02/2014, \$18,050
Acquired equipment to start-up laboratory: NUAIRE NU5810 CO2 Incubator (Direct Heat In-Vitrocell Air-Jacketed CO2 Incubator with Decon Cycle), Mettler Toledo NewClassic MC Digital Balance, Eppendorf 5804R Centrifuge, Biorad Mini Trans-Blot Cell electroblotting system and TransBlot Turbo transfer system, Frigidaire 4°C Refrigerator and Crosley -20°C Freezer
- University of Texas Rio Grande Valley Faculty Research Council (FRC) Funds, **Co-Principal Investigator** (Co-PI Dr. Karen Martirosyan), 01/2016 to 5/2017, \$10,000
Project title: Local delivery of mesenchymal stem cells expressing osteogenic and angiogenic inducing microRNAs for bone tissue engineering
- University of Texas Rio Grande Valley Internal Seed Research Program (ISRP) Funds, **Principal Investigator** (Co-PI Dr. Karen Martirosyan), 01/2017 to 8/2018, \$20,000
Project title: Local dual delivery of a chemotherapy and an anti-angiogenic agent for the treatment of glioma