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EDUCATION

- 2003 – 2007 Postdoctoral Research Fellow, Mayo Clinic Arizona, Scottsdale, AZ
- 2003 Ph.D. Tulane University – Interdisciplinary Program in Molecular and Cellular Biology
Dissertation Title: Regulation of Aryl Hydrocarbon Receptor by the p23-Hsp90 Complex
Chair: Dr. Charles Miller
- 1999 M.S.P.H. Tulane University School of Public Health and Tropical Medicine – Department of Environmental Health Sciences
- 1997 B.S. University of Missouri Columbia – Department of Biology

PROFESSIONAL EXPERIENCE

Administrative Positions

- 2016 – Director, Center for Faculty Leadership and Development (<http://www.utep.edu/faculty-development>), half-time administrative appointment, Provost's Office, University of Texas at El Paso
Roles: I am the founding Director of this center, which is a collective charged with identifying, developing, and supporting faculty-driven initiatives that will not only enhance faculty, staff and student success but also UTEP's role as a national leader in 21st century public higher education. Building on a solid foundation of faculty development in teaching and learning that has been developed by the Center for Excellence in Teaching and Learning (CETaL) over the past two decades, the center is focused on a broader set of faculty development initiatives that will strive for excellence in teaching and learning, scholarship and mentoring, entrepreneurship and innovation, and leadership. These initiatives, with organizational support from the center, are collaborative, faculty-driven communities of practice that work closely with relevant offices, programs, departments, and colleges on campus to develop a shared repertoire of resources aimed at quality enhancement at all levels within our institution. These initiatives are a starting point for what will become a long term effort to develop sustainable resources that will continue to evolve and adapt to changing institutional needs and priorities.

Academic Positions

- 2018 – Professor, Department of Biological Sciences, University of Texas at El Paso
- 2012 – 2018 Associate Professor, Department of Biological Sciences, University of Texas at El Paso

- 2010 – 2016 Director, Undergraduate Program in Cellular and Molecular Biochemistry, Department of Biological Sciences, University of Texas at El Paso
Roles and Accomplishments: I spearheaded the development of this program and served as the founding director. The program grew to over 200 majors in the first two years. I was responsible for the development and maintenance of a high quality curriculum including yearly program assessment for SACS/COC accreditation. I served as the major academic advisor for and recruitment of students in the program.
- 2007 – 2012 Assistant Professor, Department of Biological Sciences, University of Texas at El Paso

OTHER SIGNIFICANT PROFESSIONAL EXPERIENCE

- 2018 – UTEP Presidential Search Committee, University of Texas System
- 2017 – Provost's Council Member, Office of the Provost, University of Texas at El Paso
- 2016 – Campus Co-Leader, Center for the Integration of Research, Teaching, and Learning (CIRTL) (<https://www.utep.edu/faculty-development/Teaching-and-Learning/CIRTL.html>)
Roles and Accomplishments: I serve as the campus Co-Leader along with the Dean of the Graduate School. In this role I spearheaded the development of UTEP's local CIRTL learning community including the development of the website and badging system, appointment and management of a campus Director to facilitate the local learning community, as well as developing partnerships with grant funded programs on campus to leverage CIRTL for professional development training of graduate students to prepare them for the future professoriate.
- 2015 - Deputy Director, Building Infrastructure Leading to Diversity: Southwest Consortium of Health-Oriented education Leaders and Research Scholars (BUILDing SCHOLARS Center), (<http://buildingscholars.utep.edu/web/>)
Roles: BUILDing SCHOLARS is a center of excellence established at The University of Texas at El Paso with support from the National Institutes of Health - Common Fund. Our goal is to implement a suite of programs and activities that will positively transform the training of the next generation of biomedical researches from U.S. Southwest through a multi-institution consortium in Texas, New Mexico and Arizona, as well as three extra-regional sites. I co-manage the administrative core and seven staff, as well as oversee the work of the other cores.
- 2014 – 2016 President-Elect of Faculty Senate and Chair of Executive Council, (<http://facultysenate.utep.edu>), University of Texas at El Paso
Roles and Accomplishments: I served as the voice of the academic and administrative faculty working with university administration to advance the vision and direction of UTEP. On behalf of university-wide faculty, I worked closely with the UT System Board of Regents, President Natalicio, and the university administration to continually improve faculty governance on our campus. In this role I managed fifteen Senate committees that oversee all aspects of the university-wide curriculum and policies. Under my leadership the Faculty Senate made major advances in improving communication with the administration and stakeholders across the university community.

- 2014 – 2016 Member of Executive Committee and Co-Chair of Governance Committee, UT System Faculty Advisory Council
Roles and Accomplishments: I served as the UTEP faculty representative on this university system level faculty body. In this role I worked on behalf of University of Texas System faculty, staff, and administration and was committed to working closely with UT Board of Regents, the system level administration, Chancellor McRaven, and the state legislature on all issues affecting the individual campuses. As Co-Chair of the Governance Committee I worked to ensure faculty rights and educate faculty on their responsibilities. I drafted a whitepaper to the Chancellor aimed at improving faculty governance on campuses across the system.
- 2014 – 2017 Intellectual Property Executive Committee, Office of Research and Sponsored Projects and the Office of Technology Transfer, UTEP
Roles and Accomplishments: As a member of the Executive Committee I am responsible for working closely with the Director of the Office of Technology Transfer and the Vice President for Research to improve the processes of technology transfer and intellectual property protection at the university. I have contributed to decisions on which intellectual property to pursue and support financially, as well as advised on the development of processes for enhancing intellectual property protection on campus.
- 2013 – 2016 UTEP Representative, UT System Faculty Advisory Council
- 2013 – 2014 Vice President and Member of Executive Council, Faculty Senate, UTEP
Roles and Accomplishments: As Vice President I worked closely with Senate Committee Chairs to identify major issues and encouraged dialogue within the committees to ensure that all proposals approved received input from all relevant stakeholders. I revived a number of committees that lacked leadership including the student grievance committee.
- 2012 – 2013 Chair, Faculty Senate Undergraduate Curriculum Committee, UTEP
Roles and Accomplishments: I reviewed and approved all curriculum changes at the university including new degree programs. The major accomplishment during my term as Chair was the development and passing of university-wide core curriculum modifications mandated by the Texas Higher Education Coordinating Board.
- 2010 – Co-Director, Toxicology and Cancer Cluster, Border Biomedical Research Center, University of Texas at El Paso, El Paso, TX
Roles and Accomplishments: I am responsible for strategic planning and the development of collaborative research directions leading to increased research funding within the cluster, in particular projects that aim to identify links between environmental exposures and cancer incidence in the border region. I am also responsible for annual reports to the National Institute to Health. I lead the effort to add and grow the cancer focus within the cluster.

PROFESSIONAL AFFILIATIONS

Society of Basic Urologic Research
 American Society for Biochemistry and Molecular Biology
 Society of Toxicology
 Endocrine Society
 Eta Chapter, Delta Omega, Public Health Honor Society

HONORS

2018	UTEP Nominee for the Edith and Peter O'Donnell Award, The Academy of Medicine, Engineering & Science of Texas
2017	Outstanding Performance Award, Office of Research and Sponsored Projects, UTEP
2016	Texas Inventor of the Year Award, Texas State Bar Association's Intellectual Property Committee
2015	UTEP Nominee for the Blavatnik Young Scientist Award, New York Academy of Sciences
2013	College of Science Faculty Marshal of Students, Spring Commencement, UTEP
2011-2012	Outstanding Performance Award, Office of Research and Sponsored Projects, UTEP
2009-2010	Outstanding Performance Award, Office of Research and Sponsored Projects, UTEP
2005 – 2007	NIH NRSA Individual Postdoctoral Fellowship, “Physiological Roles of the Steroid Hormone Receptor-Associated Immunophilins”
2003	Basic Research Award in Molecular Biosciences, Annual Tulane Health Sciences Research Day
2002 - 2003	Tulane Cancer Center Fellowship
2002	Morris F. Schaffer Award for best presentation by a graduate student at the annual Molecular and Cellular Biology Program scientific retreat.
2002	Cancer Association of Greater New Orleans Student Research Grant
2001-2002	Tulane Cancer Center Fellowship
2000	Cancer Association of Greater New Orleans Student Research Grant
1999	Departmental Award for Excellence in Environmental Health Sciences, Department of Environmental Health Sciences, Tulane School of Public Health and Tropical Medicine

RESEARCH INTERESTS

I am a molecular endocrinologist with expertise in intracellular receptor signaling pathways. In addition to identifying, characterizing, and therapeutically targeting steroid hormone receptor regulatory proteins for the treatment of prostate cancer, I also have expertise in various model systems, including yeast, that prove useful in large-scale toxicity screens, as well as for high throughput screens for novel drug candidates. I have expertise in molecular chaperone-mediated stress response and also a wealth of reagents relevant for research in any system and/or disease involving chaperones and the stress response including a wide variety of cancers, neurodegenerative diseases and toxicant-induced cellular stress. As a result, I collaborate on a number of projects that are outside of my major research foci. In addition to environmental monitoring and prostate cancer therapeutics, I have published with collaborators in areas as diverse as Alzheimer's Disease, stress and depression, and chronic pain.

PATENTS

Issued

1. Cox, Marc B., Neckers, Leonard M., Neckers, Jane B., Kim, Yeong Sang, Iwai, Aki, Ning, Yangmin, Meneses De Leon, Johanny, Balsiger, Heather A., Fletterick, Robert. “Pharmaceutical compositions which inhibit FKBP52-mediated regulation of androgen receptor function and methods of using same”; Claims Priority to U.S. Provisional Patent Application No. 61/242,541,

Priority Date: September 15, 2009; Application No: US 13/395,976; Publication Date: November 8, 2012; International Patent Application No. PCT/US10/48705, filed September 14, 2010; Publication numbers WO2011034834A2, CA2774327A1, EP2477700A2, US20120283215A1, WO2011034834A3, Australia Patent # 2010295806

Pending

1. Cox, Marc B., Neckers, Leonard M., Liang, Su, and Xie, H. "Intravenous formulation and LC/MS/MS Analysis Method of MJC13"; Claims Priority to U.S. Provisional Patent Application No. 61/788,716, filed March 14, 2013; International Patent Application No. PCT/US2014/025678, filed March, 2014
2. Cox, Marc B. and Cherkasov, A. "Pharmaceutical compositions directly targeting FKBP52 for the treatment of prostate cancer and methods of using same"; Claims Priority to U.S. Provisional Patent Application No. 62/039,712, filed August 20, 2014, PCT/US15/46187
3. Cox, Marc B., Ekpenyong, Oscar, and Xie, Huan. "Intravenous Formulation and LC/MS/MS Analysis Method for GMC1"; Claims Priority to U.S. Provisional Patent Application No. 62/314,579, filed March 29, 2015
4. Cox, Marc B. and Richer, J. "FKBP52-Specific Androgen Receptor Inhibitor, MJC13, for Use in Treating Breast Cancer", Claims Priority to U.S. Provisional Patent Application No. 62/350,383, filed June 15, 2016

ENTREPRENEURSHIP

2016 – Pantera Pharmaceuticals, Founding Board Member: This startup was formed in conjunction with Paul Webb and Robert Fletterick, and is currently housed in the Qb3 Incubator at the University of California San Francisco. The company will pursue commercialization of our FKBP52 targeting drug, GMC1, for the treatment of prostate cancer and other nuclear receptor targeting strategies.

PUBLICATIONS (* = Undergraduate student; ** = Graduate student; *** = Post-Doctoral Fellow)

Manuscripts Currently in Preparation

1. **Guy, N., *Ramos, P., **Garcia, Y.A., ***Sivils, J., Webb, P., Cherkasov, A., Chaudhary, J. and **Cox, M.B.** Direct targeting of the FKBP52 Chaperone for the simultaneous inhibition of the Androgen, Progesterone and Glucocorticoid Receptors. *Endocrinology* (in preparation).
2. **Polanco, G., Lee, L.H., Treumann, A., Arigi, E.A., Anaya, E., **Garcia, Y.A., VerBerkmoes, N., **Cox, M.B.**, and Almeida, I.C. Comparative Proteomics Reveals Key Differences in the Expression of Cancer-Related Antigens in Extracellular Vesicles from Caucasian and African American Prostate Cancer-Derived Cell Lines. *Proteomics* (in preparation).
3. **Harris, D.C., **Garcia, Y.A., **Storer Samaniego, *C., Salomon, M., *Wells, V., and **Cox, M.B.** A Comparative Approach to Assessing the Functional Differences Between Human and Danio rerio FKBP52 in the Regulation of Steroid Hormone Receptor Activity. *Cell Stress and Chaperones* (in preparation).
4. Singh, J., Tait, B., Hutt, D.H., Brown, S., **Guy, N.C., ***Sivils, J.C., Dickey, C., Chadli, A., Finley, D., **Cox, M.B.**, Dyson, J., Gestwicki, J., Balch, W.E. Management of Hsp90-Dependent Protein Folding by Small Molecule Targeting the Aha1 Co-Chaperone. *Nature Chemical Biology* (in preparation).

Manuscripts In Revision

1. **Bezares-Cruz, J.C., **Garcia, Y.A, **Cox, M.B.**, Walker, S., and W Lee, W.Y. Detection and removal of endocrine disrupting compounds and estrogenicity in municipal wastewater treatment facilities in El Paso, TX. *Water Research* (in review).

Accepted Manuscripts

1. Grabowska, M., Dong, Y., Jamieson, C., Nonn, L., Dehm, S., Gao, A., Miranti, C., Li, X.S., Strand, D., and **Cox, M.B.** (2018) Meeting Report of the Society of Basic Urologic Research 2018 Annual Conference Entitled Precision Medicine in Urology: Molecular Mechanisms, Diagnostics and Therapeutic Targets. *American Journal of Clinical and Experimental Urology*. (in press)

Published Manuscripts

1. Mazaira, G.I., Zgajnar, N.R., Lotufo, C.M., Daneri-Becerra, C., ***Sivils, J.C., **Soto, O.B., **Cox, M.B.**, and Galigniana, M.D. (2018) The Nuclear Receptor Field: A Historical Overview and Future Challenges. *Nuclear Receptor Research*. **5**: Article ID 101320, 21 pages.
2. Collins, T.W., Aley, S.B., Boland, T., Corral, G., **Cox, M.B.**, Echevoyen, L.E., Grineski, S.E., Morera, O.F., and Nazeran, H. (2017) BUILDing SCHOLARS: Enhancing Diversity Among Biomedical Researchers from the U.S. Southwest. *BMC Proceedings*. **11**(Suppl 12): 12. PMID: PMC5773870
3. Joshi, J., Morton, D.J., Sharma, P., Bostanthirige, D.H., Zou, J., Komaragiri, S.K., Gorantla, Y., Nagappan, P., ***Sivils, J.C., Wang, G., Xie, H., Palaniappan, R., **Cox, M.B.**, and Chaudhary, J. (2017) Inactivation of ID4 Promotes a CRPC Phenotype with Constitutive AR Activation through FKBP52. *Molecular Oncology*. **11**(4): 337–357. PMID: PMC5378613
4. Maiarù, M., Tochiki, K.K., **Cox, M.B.**, Anand, L., Bell, C.G., Feng, X., Hausch, F., and Géranton, S.M. (2016) Deletion of the stress regulator FKBP51 promotes resistance to the development of chronic pain. *Science Translational Medicine*. **8**(325): 325ra19. PMID: IN PROCESS
5. Suh, J.H., Chattopadhyay, A., Sieglaff, D.H., **Storer Samaniego, C.L., **Cox, M.B.**, and Webb, P. (2015) Similarities and distinctions in actions of surface-directed and classic androgen receptor antagonists. *PLOS ONE*. **10**(9):e0137103. PMID: PMC4557941
6. **Storer Samaniego, C., Suh, J.H., Chattopadhyay, A., *Olivares, K., **Guy, N., ***Sivils, J.C., Dey, P., Yumoto, F., Fletterick, R., Strom, A., Gustafsson, J-A., Webb, P., and **Cox, M.B.** (2015) The FKBP52 cochaperone acts in synergy with β -catenin to potentiate androgen receptor signaling. *PLOS ONE*. **10**(7): e0134015. PMID: PMC4514735
7. Shrestha, S., Sun, Y., Lufkin, T., Kraus, P., Or, Y., **Garcia, Y.A., **Guy, N., *Ramos, P., **Cox, M.B.**, Tay, F., and Lin, V.C.L. (2015) Tetratricopeptide repeat domain 9A negatively regulates estrogen receptor alpha activity. *International Journal of Biological Sciences*. **11**(4): 434-447. PMID: PMC4366642
8. Schmidt, U., Buell, D., Ionescu, I.A., Holsboer, F., **Cox, M.B.**, Novak, B., Huber, C., Binder, E.B., Schmidt, M., Touma, C., Rein, T., and Herrmann, L. (2015) A role for synapsin in FKBP5 modulation of stress responsiveness: convergent evidence from animal and human studies. *Psychoneuroendocrinology*. **52**: 43-58.

9. **Guy, N., **Garcia, Y.A., and **Cox, M.B.** (2015) Therapeutic targeting of the FKBP52 cochaperone in steroid hormone receptor-regulated physiology and disease. *Current Molecular Pharmacology*. 9(2): 109-25. PMID: IN PROCESS
10. Liang, S., Bian, X., Liang, D., ***Sivils, J., Neckers, L.M., **Cox, M.B.**, and Xie, H. (2014) Solution formulation development and efficacy of MJC13 in a preclinical model of castration-resistant prostate cancer. *Pharmaceutical Development and Technology*. 7: 1-6. PMID: PMC4366642
11. Erlejman, A.G., De Leo, S.A., Mazaira, G.I., Molinari, A.M., Camisay, M.F., **Cox, M.B.**, Piwien-Pilipik, G., and Galigniana, M.D. (2014) NF- κ B transcriptional activity is modulated by FK506-binding proteins FKBP51 and FKBP52: A role for peptidyl-prolyl isomerase activity. *Journal of Biological Chemistry*. 289(38): 26263-76. PMID: PMC4176250
12. Sangster, J.L., Zhang, Y., *Hernandez, R., **Garcia, Y.A., ***Sivils, J.C., **Cox, M.B.**, Snow, D.D., Kolok, A.S., and Bartlet-Hunt, S.L. (2014) Bioavailability and fate of sediment-associated trenbolone and estradiol in aquatic systems. *Science of the Total Environment*. 496: 576-584. PMID: IN PROCESS
13. Rodina, A., Taldone, T., Kang, Y., Patel, P., Koren, J., Yan, P., Gomes, E., Yang, C., Patel, M., Shrestha, L., Ochiana, S., Santarossa, C., Maharaj, R., Gozman, A., **Cox, M.B.**, Erdjument-Bromage, H., Hendrickson, R., Cerchiatti, L., Melnick, A., Guzman, M., and Chiosis, G. (2014) Affinity-purification probes of potential use to investigate the endogenous Hsp70 interactome in cancer. *ACS Chemical Biology*. 9: 1698-1705. PMID: PMC4134716
14. **Paul, A., **Garcia, Y., Zeirer, B., Patwardhan, C., *Gutierrez, O., **Hildenbrand, Z., **Harris, D.C., Balsiger, H.A., Johnson, J.L., Buchner, J., Chadli, A., and **Cox, M.B.** (2014) The cochaperone SGTA (small glutamine-rich tetratricopeptide repeat-containing protein alpha) demonstrates regulatory specificity for the androgen, glucocorticoid and progesterone receptors. *Journal of Biological Chemistry*. 289 (22): 15297-308. PMID: PMC4140887
15. Liang, S., Bian, X., ***Sivils, J., Neckers, L.M., **Cox, M.B.**, and Xie, H. (2014) Quantification of a new anti-cancer molecule MJC13 using a rapid, sensitive, and reliable liquid chromatography-tandem mass spectrometry method. *American Journal of Modern Chromatography*. 1 (1): 1-11. PMID: PMC4292881
16. Jehle, K., Cato, L., Neeb, A., Muhle-Goll, C., Jung, N., Smith, E., Buzon, V., Carbo, L.R., Estèbanez-Perpiña, E., Schmitz, K., Fruk, L., Luy, B., Chen, Y., **Cox, M.B.**, Bräse, S., Brown, M., and Cato, A.C.B. (2014) Coregulator control of androgen receptor action by a novel nuclear receptor-binding motif. *Journal of Biological Chemistry*. 289(13): 8839-51. PMID: PMC3979403
17. Schwenkert, S., Hugel, T., and **Cox, M.B.** (2014) The Hsp90 ensemble: coordinated Hsp90-cochaperone complexes regulate diverse cellular processes. *Nature Structural & Molecular Biology*. 21(12): 1017-21.
18. Erlejman, A.G., Lagadari, M., **Harris, D.C., **Cox, M.B.**, and Galigniana, M.D. (2014) Molecular chaperone activity and biological regulatory actions of the TPR-domain immunophilins FKBP51 and FKBP52. *Current Protein and Peptide Science*. 15 (3): 205-15. PMID: IN PROCESS
19. Shafi, A.A., **Cox, M.B.**, and Weigel, N.L. (2013) Androgen receptor splice variants are resistant to inhibitors of Hsp90 and FKBP52, which alter androgen receptor activity and expression. *Steroids*. 78(6): 548-54. PMID: PMC3640750

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21. Hartmann, J., Wagner, K.V., Liebl, C., Scharf, S.H., Wang, X., Wolf, M., Hausch, F., Rein, T., Schmidt, U., Touma, C., Cheung-Flynn, J., **Cox, M.B.**, Smith, D.F., Holsboer, F., Muller, M.B., and Schmidt, M.V. (2012) The Involvement of the FK506-binding protein 51 (FKBP51) in the behavioral and neuroendocrine effects of chronic social defeat. *Neuropharmacology*. **62**: 332-339. (PMCID not required as federal funds were not used)
22. O'Leary III, J.C., Dharia, S., Davey, Z.S., Blair, L.J., Koren III, J., Peters, M., Abisambra, J.F., Voss, K., Weeber, E.J., Cheung-Flynn, J., **Cox, M.B.**, Jinwal, U.K., and Dickey, C.A. (2011) Improved resiliency to depressive events in FKBP5 deficient mice. *PLoS ONE*. **6**(9): e24840. PMID: PMC3174203
23. ***Sivils, J., **Storer, C.L., Galigniana, M.D., and **Cox, M.B.** (2011) Regulation of steroid hormone receptor function by the 52-kDa FK506-binding protein (FKBP52). *Current Opinion in Pharmacology*. **11**: 1-6. PMID: PMC3156321
24. **Storer, C.L., Dickey, C.A., Galigniana, M., Rein, T., and **Cox, M.B.** (2011) FKBP51 and FKBP52 in signaling and disease. *Trends in Endocrinology and Metabolism*. **22** (12): 481-490. PMID: PMC3229651
25. Touma, C., Gassen, N.C., Herrman, L., Cheung-Flynn, J., Bull, D.R., Ionescu, I.A., Heinzmann, J.M., Knapman, A., Siebertz, A., Depping, A.M., Hartmann, J., Hausch, F., Schmidt, M.V., Holsboer, F., Ising, M., **Cox, M.B.**, Schmidt, U., and Rein, T. (2011) FKBP5 shapes stress responsiveness: Modulation of neuroendocrine reactivity and coping behavior. *Journal of Biological Psychiatry*. **70**: 928-936. (PMCID not required as federal funds were not used)
26. **Tonos De Leon, J., Iwai, I., Feau, C., *Garcia, Y., Balsiger, H.A., **Storer, C., **Suro, R.M., Lee, S., Kim, Y.S., Chen, Y., Ning, Y.M., Garza, K.M., Riggs, D.L., Trepel, J., Guy, R.K., Fletterick, R.J., Neckers, L.M., and **Cox, M.B.** (2011) Targeting the regulation of androgen receptor signaling by the heat shock protein 90 cochaperone FKBP52 in prostate cancer cells. *Proceedings of the National Academy of Sciences USA*. **108**(29): 11878-11883. PMID: PMC3141981
- This article was highlighted in *Science-Business eXchange (SciBX)*. **4**(28) (<http://www.nature.com/scibx/index.html>).
 - This article was highlighted in *Prostate Cell News* 2.24, July 8, 2011
 - This article's abstract was published and highlighted in the *Journal of Urology (J Urol)*. 2012 Mar;187(3):1128.)
 - This article was highlighted in *European Urology* (European Urology, 2012; 62:929-937.)
27. Sellin Jeffries, M.K., Conoan, N.H., **Cox, M.B.**, Sangster, J.L., Balsiger, H.A., *Bridges, A.A., Cowman, T., Knight, L.A., Bartlet-Hunt, S.L., and Kolok, A.S. (2011) The anti-estrogenic activity of sediments from agriculturally-intense watersheds: Assessment using in vivo and in vitro assays. *Aquatic Toxicology*. **105**: 189-198. PMID: PMC4605562
28. **Hildenbrand, Z.L., Molugu, S.K., **Paul, A., Avila, G., *Herrera, N., Xiao, C., **Cox, M.B.**, and Bernal, R.A. (2010) High-yield expression and purification of the Hsp90-associated p23,

FKBP52, Hop, and SGT α proteins. *J Chromatogr B Analyt Technol Biomed Life Sci.* **878**(28): 2760-2764. NIHMSID: 583819

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40. **Cox, M.B.**, and Miller, C.A., III. (2002) The p23 co-chaperone facilitates human dioxin receptor signaling in a yeast model system. *Toxicology Letters.* **129**(1-2): 13-21.

Edited Books

1. The Biology of Molecular Chaperones. Co-Edited by **Cox, M.B.**, Rein, T., and Galigniana, M.D. *Frontiers in Molecular Biosciences*. (in preparation).

Book Chapters

1. Mazaira, G.I., Zgajnar, N.R., Lotufo, C.M., Daneri-Becerra, C., ***Sivils, J.C., **Soto, O.B., **Cox, M.B.**, and Galigniana, M.D. Nuclear Receptors: A Historical Perspective. *Methods in Molecular Biology*. (in press).
2. **Cox, M.B.**, and Johnson, J.L. (2018) Evidence for Hsp90 Co-chaperones in Regulating Hsp90 Function and Promoting Client Protein Folding. *Methods in Molecular Biology*. **1709**: 397-422.
3. **Guy, N., **Garcia, Y.A., ***Sivils, J.C., Galigniana, M.D., and **Cox, M.B.** (2015) Functions of the Hsp90-binding FKBP Immunophilins. In *The Networking of Chaperones by Co-Chaperones*. Edited by Gregory Blatch and Adrienne Edkins. *Subcellular Biochemistry*. **78**: 35-68. doi: 10.1007/978-3-319-11731-7_2.
4. **Cox, M.B.**, and Johnson, J.L. (2011) The role of p23, Hop, immunophilins and other co-chaperones in regulating Hsp90 function. In *Methods in Molecular Biology: Molecular Chaperones: From Folding Quality to Physiological Function*. Thomas Prince and Stuart Calderwood, ed. Humana Press.
5. Balsiger, H.A., and **Cox, M.B.** (2009) Yeast-based reporter assays for the functional characterization of cochaperone interactions with steroid hormone receptors. In *Methods in Molecular Biology: The Nuclear Receptor Superfamily*, vol. 505. Edited by I.J. McEwan. The Humana Press, Totowa, New Jersey.
6. Cheung-Flynn, J., Place, S.P., **Cox, M.B.**, Prapapanich, V., and Smith, D.F. (2007) FKBP immunophilins in steroid receptor complexes. In *Protein Reviews: Cell Stress Proteins*, vol. 7. Edited by Stuart Calderwood. Springer-Verlag New York Inc., New York, NY.
7. **Cox, M.B.**, and Smith, D.F. (2005) Functions of the Hsp90-binding FKBP immunophilins. In *The Networking of Chaperones by Cochaperones*. Edited by Gregory Blatch. Landes Bioscience, Georgetown, TX. Book reviewed in *Cell Stress and Chaperones* (Toft, D. 2008. Partners in surveillance and quality control. *Cell Stress and Chaperones*. **13**: 117-118.)

PROFESSIONAL PRESENTATIONS (CONFERENCES/LECTURES)

Invited Presentations

- 2018 George M. O'Brien Urology Research Center, Department of Urology, University of Wisconsin School of Medicine and Public Health, Departmental Seminar, "Molecular chaperones and cochaperones in hormone-dependent physiology and disease"
- 2018 Department of Structural and Cell Biology, Tulane University School of Medicine, New Orleans, LA, Departmental Seminar, "Molecular chaperones and cochaperones in hormone-dependent physiology and disease"
- 2018 Annual Cross Network Meeting of the Center for the Integration of Research, Teaching and Learning (CIRTL), Yale University, New Haven, CT, "Local Learning Community Resilience: Management Design, Leadership, and Financial Sustainability"

- 2017 Lecture sponsored by the Martin and Winifred Ehlers Named Visiting Professorship, Mayo Clinic, Rochester, MN, "Molecular chaperones and cochaperones in hormone-dependent physiology and disease"
- 2017 Department of Urology, SUNY Upstate Medical University, Syracuse, NY, Departmental Seminar, "Targeting molecular chaperones for the treatment of hormone-dependent diseases"
- 2016 Department of Biological Chemistry, University of Buenos Aires, Buenos Aires, Argentina, Departmental Seminar, "The role of Immunophilins in Steroid Hormone Receptor Signaling"
- 2016 Annual Meeting of the Argentinian Society for Clinical Investigation, Mar del Plata, Argentina, Plenary Speaker, "Targeting molecular chaperones for the treatment of hormone-dependent diseases"
- 2016 Department of Biochemistry and Microbiology, Rhodes University, Grahamstown, South Africa, Departmental Seminar, "Targeting the FKBP52 Cochaperone for the treatment of Cancer"
- 2016 25th Congress of the South African Society of Biochemistry and Molecular Biology, East London, South Africa, Plenary Speaker, "Targeting the FKBP52 Cochaperone for the treatment of Cancer"
- 2016 Paul L. Foster School of Medicine Women in Medicine and Science (WIMS) symposium, Texas Tech University Health Sciences Center, El Paso, TX, "CPRIT Grant Funding: Strategies for Successful Grant Submissions"
- 2016 Texas Southern University RCMI Symposium, Houston TX, "Chaperoning Cancer: Novel Targets for the Treatment of Hormone-Dependent Cancers".
- 2015 Pacifichem 2015, The International Chemical Congress of Pacific Basin Societies 2015, Honolulu, HI, "Chaperoning Cancer: Novel Targets for the Treatment of Hormone-Dependent Cancers".
- 2015 Annual Cancer Symposium, Texas Tech University Health Sciences Center, El Paso, TX, "Chaperoning Cancer: Novel Targets for the Treatment of Prostate Cancer".
- 2015 University of Idaho, Dept. of Biology, University of Idaho, Moscow, Idaho, Departmental Seminar, "Chaperoning Cancer: Novel Targets for the Treatment of Hormone-Dependent Cancers".
- 2013 Meeting of the Society for Basic Urologic Research (SBUR) and Annual meeting of the American Urological Association, San Diego, CA, "Targeting Cochaperones for the Treatment of Hormone-Dependent Diseases"
- 2013 College of Health Sciences, University of Texas at El Paso, El Paso, TX, "Targeting Cochaperones for the Treatment of Prostate Cancer"
- 2012 Max Planck Institute of Psychiatry, Munich, Germany, "Targeting Cochaperones for the Treatment of Hormone-Dependent Diseases"
- 2012 Modulation of Androgen Receptor Splice Variants in Castrate Resistant Prostate Cancer (MARS-CRPC) Meeting, sponsored by the Prostate Cancer Foundation, UT Southwestern,

Dallas, TX, “Chaperone Complexes in Steroid Hormone Receptor Signaling”

- 2012 Texas Southern University, Houston, TX, University-wide seminar, “Targeting the regulation of androgen receptor by Hsp90-associated cochaperones for the treatment of prostate cancer”
- 2012 Annual Meeting of the Endocrine Society, Houston, TX, “Targeting the regulation of androgen receptor by Hsp90-associated cochaperones for the treatment of prostate cancer”
- 2012 Texas Tech University Health Sciences Center, Department of Biomedical Sciences, Distinguished Lecture Series, “Targeting the regulation of androgen receptor by Hsp90-associated cochaperones for the treatment of prostate cancer”
- 2011 University of South Florida, College of Medicine, Department of Molecular Medicine, Tampa, FL, Departmental Seminar, “Therapeutic targeting of Hsp90-associated co-chaperones for the treatment of prostate cancer”
- 2011 3rd Annual Keep on Dancing Cancer Survivor Conference, Rio Grande Cancer Foundation, “Toxins: Minimize your Exposure”
- 2011 Center for Nuclear Receptors and Cell Signaling Seminar Series, University of Houston, Houston, TX, “Targeting Cochaperone Regulation of Steroid Hormone Receptors”
- 2011 7th Annual National Symposium on Prostate Cancer, Center for Excellence for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA, “Therapeutic targeting of Hsp90-associated co-chaperones for the treatment of prostate cancer”
- 2010 The Prostate Centre at Vancouver General Hospital and the University of British Columbia, Vancouver, Canada, Departmental Seminar, “A distinct class of nuclear receptor alternate site modulators (NRAMs) that target a novel androgen receptor regulatory mechanism involving FKBP52 and β -catenin”.
- 2009 University of Idaho, Dept. of Microbiology, Molecular Biology and Biochemistry, University of Idaho, Moscow, Idaho, Departmental Seminar, “FKBP52 regulation of steroid hormone receptor function”.
- 2009 FASEB Summer Conference: Dynamic Structure of the Nuclear Hormone receptors, “Characterization and targeting of a putative FKBP52 interaction surface on the androgen receptor hormone binding domain”. Saxtons River, Vermont
- 2009 Workshop on the therapeutic targeting of the Androgen Receptor, “Characterization and targeting of a putative FKBP52 interaction surface on the androgen receptor hormone binding domain”. University of California San Francisco, San Francisco, CA
- 2009 UTEP Bioinformatics Colloquium, “Characterization and targeting of a putative FKBP52 interaction surface on the androgen receptor hormone binding domain”.
- 2008 Environmental Science and Engineering Program Seminar Series, UTEP, “New advances in the yeast bioassay for use in environmental pollution monitoring and drug discovery”.

Accepted Abstracts

- 2014 International Symposium on Minority Health and Health Disparities, National Harbor, MD: Speaker, “Targeting FKBP52/ β -catenin interactions in prostate cancer”

- 2014 Meeting of the Society for Basic Urologic Research (SBUR), Dallas Texas: Poster, "Targeting FKBP52/ β -catenin interactions in prostate cancer"
- 2014 International Conference on the Hsp90 Chaperone Machine, Seeon, Germany: speaker, "FKBP52 is required for β -catenin to functionally interact with the androgen receptor"
- 2014 Annual Meeting of the Endocrine Society, Chicago, IL, Platform Presentation, "FKBP52 and β -Catenin Directly Interact to Regulate Androgen Receptor Activity in Prostate Cancer Cells"
- 2014 10th Annual National Symposium on Prostate Cancer, Center for Excellence for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA; "FKBP52 and β -catenin interact to regulate androgen receptor activity in prostate cancer cells"
- 2013 9th Annual National Symposium on Prostate Cancer, Center for Excellence for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA; Platform Presentation; "A novel FKBP52/ β -catenin complex specifically regulates androgen receptor activity"
- 2011 Annual Meeting of the Cancer Prevention and Research Institute of Texas, Austin, TX: speaker, "A Distinct Class of Androgen Receptor antagonists that target a Novel Regulatory Mechanism Involving FKBP52 and β -Catenin"
- 2010 International Conference on the Hsp90 Chaperone Machine, Geneva, Switzerland: speaker, "A Distinct Class of Nuclear Receptor Alternate Site Modulators (NRAMs) that Target the Regulation of Androgen Receptor by the Cochaperone FKBP52"
- 2010 Nuclear Receptors and Disease meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY: platform presentation: "A distinct class of nuclear receptor alternate site modulators (NRAMs) that target a novel androgen receptor regulatory mechanism involving FKBP52 and β -catenin".
- 2010 Molecular Chaperones and the Heat Shock Response meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY: student platform presentation: "Targeted disruption of androgen receptor regulation by FKBP52".
- 2010 Molecular Chaperones and the Heat Shock Response meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY: poster abstract: "A distinct class of nuclear receptor alternate site modulators (NRAMs) that target a novel androgen receptor regulatory mechanism involving FKBP52 and β -catenin".
- 2009 Southwest Regional Meeting of the American Chemical Society, El Paso, TX: speaker, "Characterization and targeting of a putative interaction surface on the Androgen receptor hormone binding domain".
- 2009 Annual Meeting of the Endocrine Society, Washington D.C.: poster presentation: "Characterization and targeting of a putative interaction surface on the Androgen receptor hormone binding domain".
- 2009 TTUHSC Annual Research Colloquim, El Paso, TX: platform presentation: "Characterization and targeting of a putative interaction surface on the Androgen receptor hormone binding domain".
- 2009 Midwest Stress Response and Chaperones Meeting, Evanston, IL: Session Chair/platform

presentation: "Characterization and targeting of a putative interaction surface on the Androgen receptor hormone binding domain".

- 2008 Annual Meeting of the American College of Toxicology, Tuscan, AZ: poster abstract: "New advances in the yeast bioassay for use in environmental pollution monitoring and drug discovery".
- 2008 International Conference on the Hsp90 Chaperone Machine, Seon, Germany: speaker, "Characterization and targeting of a putative interaction surface on the Androgen receptor hormone binding domain".
- The work that I presented was highlighted in the meeting report published in *Nature Structural & Molecular Biology* (Mayer, M.P., Prodromou, C., and Frydman, J. (2009) The Hsp90 mosaic: a picture emerges. *Nat Struct Mol Biol* 16: 2- 6.)
- 2007 Keystone Symposium: Advances in Reproduction, Santa Fe, NM: poster abstract: "Genetic Characterization of the Functional Interaction Site Between FKBP52 and the Androgen Receptor"

Selected Student Presentations (*Undergraduate Student in My Laboratory; **Graduate Student in My Laboratory)

- 2018 **Ortiz, N. and Cox, M.B. "Characterizing a Novel Mechanism by which FKBP52 and β -catenin Synergistically Regulate AR Activity", Poster Presentation, 2018 Annual Meeting of the Society for Basic Urologic Research, Palm Springs, CA
- 2018 **Payan, A. and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, 2018 Annual Meeting of the Society for Basic Urologic Research, Palm Springs, CA
- 2018 **Ortiz, N. and Cox, M.B. "Characterizing a Novel Mechanism by which FKBP52 and β -catenin Synergistically Regulate AR Activity", Platform Presentation, 23rd Annual Midwest Stress Response and Molecular Chaperone Meeting, Northwestern University, Evanston, IL
- 2018 *Rodarte, K. **Ortiz, N. and Cox, M.B. "Direct Targeting of the FKBP52 Cochaperone for the Treatment of Prostate Cancer", 23rd Annual Midwest Stress Response and Molecular Chaperones Meeting, Northwestern University, Evanston, IL
- 2018 *Rodarte, K. **Ortiz, N. and Cox, M.B. "Domain and Residue Requirements for FKBP52, β -catenin, and AR Interactions", COURI Symposium, The University of Texas at El Paso (UTEP), El Paso, TX
- 2017 **Payan, A. and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, RCMI Annual Conference, Washington, DC
- 2017 **Ortiz, N. and Cox, M.B. "Characterizing a Novel Mechanism by which FKBP52 and β -catenin Synergistically Regulate AR Activity", Poster Presentation, RCMI Annual Conference, Washington, DC
- 2017 **Payan, A. and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, Annual Border Biomedical Research Center Symposium, El Paso, TX

- 2017 **Ortiz, N. and Cox, M.B. "Characterizing a Novel Mechanism by which FKBP52 and β -catenin Synergistically Regulate AR Activity", Poster Presentation, Annual Border Biomedical Research Center Symposium, El Paso, TX
- 2016 **Payan, A. and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Oral Presentation, Annual National Symposium on Prostate Cancer, Center for Excellence for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA^s
- 2016 **Ortiz, N. and Cox, M.B. "AR-V7: A Yeast Genome Screen for Functional Effectors", Poster Presentation, Annual National Symposium on Prostate Cancer, Center for Excellence for Cancer Research and Therapeutic Development, Clark Atlanta University, Atlanta, GA
- 2015 **Guy, N., *Ramos, P., and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, The 7th Annual Cancer Symposium at Texas Tech University Health Sciences Center, El Paso, TX
- 2015 **Garcia, Y., Almeida, I.C., Cox, M.B. "Quantitative Proteomics Reveal a Network for SGTA in LnCAP Prostate Cancer Cells" Poster Presentation, UTEP BBRC Symposium, El Paso, TX
- 2015 **Guy, N., *Ramos, P., and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, Second Border Biomedical Research Center Symposium Health Disparities: From Molecules to Disease, El Paso, TX
- 2015 **Garcia, Y., Almeida, I.C., Cox, M.B. "Quantitative Proteomics Reveal a Network for SGTA in LnCAP Prostate Cancer Cells", Poster Presentation, Future Fellow Research Conference St. Jude Children's Research Hospital, Memphis, TN
- 2015 *Prieto, L., **Garcia, Y., Cox, M.B. "Label-Free Quantitative Proteomics Identify Global Protein Interactors for the Androgen Receptor Associated Cochaperone SGTA", Poster Presentation, 2015 American Society for Biochemistry and Molecular Biology Annual Meeting, Boston, MA
- 2015 **Garcia, Y., Almeida, I.C., Cox, M.B. "Quantitative Proteomics Reveal a Network for SGTA", Poster Presentation, US HUPO, Tempe, AZ
- 2015 *Prieto, L., **Garcia, Y., and Cox, M.B. " Label-Free Quantitative Proteomics Identify Global Protein Interactors for the Androgen Receptor Associated Cochaperone SGTA", Poster Presentation, Emory STEM Symposium, Atlanta, GA
- 2015 **Garcia, Y., Almeida, I.C., Cox, M.B. "Quantitative Proteomics Reveal a Network for SGTA", Poster Presentation, Midwest Stress Response and Chaperone Meeting, Evanston, IL
- 2015 **Guy, N., and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Platform Presentation, Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL
- 2014 **Guy, N., *Ramos, P., and Cox, M.B. "Identification and Characterization of Small Molecules Targeting FKBP52 as a Novel Treatment for Prostate Cancer", Poster Presentation, Society of Basic Urologic Research Fall Symposium, Dallas, TX

- 2014 **Garcia, YA., **Atanu, P., Cox, MB: "Structural and Functional Characterization of SGTA in Steroid Hormone Receptor Signaling" Poster Presentation, 2014, Society for the Advancement of Chicanos and Native Americans Annual Meeting, Los Angeles, CA.
- 2014 *Gutierrez, O., **Garcia, Y., and Cox, MB: "SGTA a Novel Therapeutic Target for Prostate Cancer", Poster Presentation, Society for the Advancement of Hispanics/Chicanos and Native Americans in Science 2013 National Conference, Los Angeles, CA.
- 2014 *Prieto, LI, *Garcia, YA., and Cox, MB: "A Proteomic Strategy for the Identification of SGTA-Interacting Proteins in Prostate Cancer Cells", Poster Presentation, SACNAS, Los Angeles, CA
- 2014 **Frydenlund, L.M., **Cheryl L. Storer, *Karen Olivares, **Naihsuan Guy, and Marc B. Cox. "FKBP52 Co-chaperone and β -catenin synergistically potentiate Androgen Receptor activity." University of Texas System Louis Stokes Alliance for Minority Participation Student Research Conference and General Meeting. University of Texas at El Paso, El Paso, Texas.
- 2014 *Rodriguez, T.A., **Storer, C.L., **Garcia, Y.A., and Cox, M.B., "Development of a Yeast-Based Assay for the Functional Characterization of FKBP52/ β -Catenin Interactions with the Androgen Receptor." Poster Presentation, University of Texas System Louis Stokes Alliance for Minority Participation Student Research Conference and General Meeting, University of Texas at El Paso, El Paso, Texas.
- 2014 *Prieto, L.I., **Garcia, Y.A., and Cox, M.B. "A Proteomic Strategy for the Identification of SGTA-Interacting Proteins in Prostate Cancer Cells", Poster Presentation, Experimental Biology, San Diego, CA
- 2014 *Gutierrez, O., **Garcia, Y., **Atanu, P., & Cox, MB: "The Antagonistic Role of SGT α in Steroid Hormone Receptor Regulation", Poster Presentation, 2014 American Society for Biochemistry and Molecular Biology Annual Meeting, San Diego, CA.
- 2014 *Prieto, L.I., **Garcia, Y.A., and Cox, M.B. "Identifying Novel Protein Interactors for SGTA in the Androgen Receptor Signaling Pathway", Poster Presentation, Emory STEM Symposium, Atlanta, GA
- 2014 *Gutierrez, O., **Garcia, Y., **Atanu, P., and Cox, M.B. "The Antagonistic Role of SGT α in Steroid Hormone Receptor Regulation", Poster Presentation, Emory University STEM Research and Career Symposium, Atlanta, GA.
- 2014 **Harris, D.C., *Salomon, M.G., and Cox, M.B. "A Comparative Approach to Assessing the Functional and Structural Characteristics of hFKBP52 in the Regulation of Steroid Hormone Receptor Signaling Pathway", Poster Presentation, STEM Research Symposium, Emory University.
- 2013 *Ramos, P.A., **Guy, N., and Cox, M.B. "Identification and Characterization of a Putative FKBP52 Regulatory Surface on the Androgen Receptor Hormone Binding Domain", Poster Presentation, Annual Biomedical Research Conference for Minority Students (ABRCMS), Nashville, TN
- 2013 *Gutierrez, O., **Garcia, Y., **Atanu, P., and Cox, M.B. "SGT α An Identified Independent Regulator of Steroid Hormone Receptor Function", Poster Presentation, Society for the Advancement of Hispanics/Chicanos and Native Americans in Science 2013 National Conference, San Antonio, TX.

- 2013 **Garcia, Y.A., *Gutierrez, O., and Cox, M.B. "Structural and Functional Characterization of SGTA", Oral Presentation, First Annual Interdisciplinary Symposium: 21st Century Development, UTEP
- 2013 **Garcia, Y.A., *Gutierrez, O., and Cox, M.B. "The Antagonistic Effects of Human SGTA in Steroid Hormone Receptor Function", Poster Presentation, Emory STEM Symposium, Atlanta, GA
- 2013 *Salomon, M., **Harris, D.C., and Cox, M.B. "A novel FKBP52/ β -Catenin complex specifically regulates androgen receptor activity", Poster Presentation, COURI Symposium at UTEP, El Paso, TX.
- 2013 *Gutierrez, O., **Garcia, Y., **Paul, A., and Cox, M.B. "SGT α antagonizes receptor activity independent of TPR protein status", Poster Presentation. COURI Symposium at UTEP, El Paso, TX.
- 2013 **Guy, N., *Ramos, P.A., Arigi, E., Almeida, I.C., Cox, M.B. "Proteomic Identification of Global FKBP51 and FKBP52 Interactors in Prostate Cancer Cells", Evanston, IL.
- 2013 *Ramos, P.A., **Guy, N., and Cox, M.B. "Identification and Characterization of a Putative FKBP52 Regulatory Surface on the Androgen Receptor Hormone Binding Domain", Poster Presentation, 18th annual Midwest Stress and Molecular Chaperone Meeting, Evanston, IL.
- 2013 **Storer, C., Webb, P., Fletterick, R., and Cox, M.B. "A Novel FKBP52/ β -Catenin Complex Specifically Regulates Androgen Receptor Activity." Oral Presentation. 18th Annual Midwest Stress Response and Molecular Chaperone Meeting. Evanston, IL.
- 2013 Salomon, M., Harris, D.C., and Cox, M.B. "A novel FKBP52/ β -Catenin complex specifically regulates androgen receptor activity", Poster Presentation, 18th Annual Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL.
- 2013 **Garcia, Y., **Paul, A., Zeirer, B., Patwardhan, C., *Solis, J., *Gutierrez, O., Balsiger, H., Chadli, A., Johnson, J., Buchner, J., and Cox, M.B. "The antagonistic effects of human SGT α in steroid hormone receptor function", Poster Presentation, 18th Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL.
- 2013 *Gutierrez, O., **Garcia, Y., **Paul, A., and Cox, M.B. "SGT α antagonizes receptor activity independent of TPR protein status", Poster Presentation. 18th Annual Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL.
- 2012 **Storer, C., *Olivares, K, Fletterick, R.J., Webb, P., and Cox, M.B. "Analysis of a Novel Synergistic Relationship between FK506 Binding Protein and Beta Catenin in Androgen Receptor Signaling Pathways", Poster Presentation, San Antonio Breast Cancer Symposium, San Antonio, TX.
- 2012 **Garcia, Y., **Paul, A., Almeida, I., and Cox, M.B. "A proteomic strategy for detecting specific interactors with sSGT α in prostate cancer cells", Poster Presentation, SACNAS National Meeting, Seattle, WA.
- 2012 **Storer, C., Balsiger, H., Fletterick, R., and Cox, M.B. "A Novel Synergistic Relationship between FKBP52 and β -Catenin with Revolutionary Implications in Prostate Cancer Research", Poster Presentation, National Institutes of Health Day at UTEP. El Paso, TX.

- 2012 **Storer, C., Balsiger, H., Fletterick, R., and Cox, M.B. "A Novel Synergistic Relationship between FKBP52 and β -Catenin with Revolutionary Implications in Prostate Cancer Research", Poster Presentation, 15th Annual Midwest Stress Response and Molecular Chaperone Meeting. Evanston, IL.
- 2011 **Garcia, Y., **Paul, A., *Solis, J., and Cox, M.B. "A specific regulatory role for human SGT α in the maturation of steroid hormone receptors", Oral Presentation, UTEP Doctoral Symposium, El Paso, TX.
- 2011 **Garcia, Y., **Paul, A., *Solis, J., and Cox, M.B. "A specific regulatory role for human SGT α in the maturation of steroid hormone receptors", Oral Presentation, 17th Midwest Stress Response and Molecular Chaperone Meeting, Evanston, IL.

RESEARCH FUNDING

Extramural

- 2018 – 2019 NIH/NCI, 1R13CA236020-01, Society For Basic Urologic Research Annual Meeting: Precision Medicine In Urology: Molecular Mechanisms, Diagnostics and Therapeutic Targets, \$5000 (Role:PI)
- 2018 – 2019 Lizanell and Colbert Coldwell Foundation, \$70,000 (Role: PI)
- 2017 – 2020 DOD/CDMRP, W81XWH-17-1-0435, Prostate Cancer Research Program, PC160207, PCRP Idea Development Award, \$500,000 (Role: PI)
- 2014 – 2019 NIH/NIGMS, 1UL1MD009598-01, Building Infrastructure Leading to Diversity: Southwest Consortium of Health-Oriented Education Leaders and Research Scholars (BUILDING SCHOLARS), \$22,600,000 (Role: PI of Administrative Core; additional PIs: Echegoyen, Aley, Collins, Grineski, Wagler, Boland, Morera)
- 2015 Office of the Governor, El Paso Innovation and Commercialization (EPIC) Fund, \$50,000 (Role: PI)
- 2011 – 2016 CPRIT, RP110444-P2, \$999,992 (Role: PI)
- 2011 – 2012 NIH/NCRR, Research Centers in Minority Institutions Translational Research Network (RTRN) Grant, \$50,000 (Role: Co-PI; PI: Xie)
- 2011 – 2012 NIH/RCMI, BBRC Pilot Grant, \$31,188 (Role: Co-PI; PI: Lee)
- 2011 – 2012 NIH/RCMI, BBRC Pilot Grant, \$37,375 (Role: Co-PI; PI: Walsh)
- 2009 – 2011 NIH/NIGMS, SC1GM084863, SC1 Administrative Supplement, \$197,618 (Role: PI)
- 2008 – 2013 NIH/NIGMS, SC1GM084863, Support of Competitive Research (SCORE) Full Project Award (SC1), \$1,036,000 (Role: PI)

Intramural

- 2008 UTEP University Research Institute Grant, \$5000 (Role: PI)
- 2008 UTEP ADVANCE Graduate Research Assistantship, National Science Foundation (NSF), Grant No. 0245071, \$3,600 (Role: Graduate Research Mentor)

TEACHING EXPERIENCE

- 2018 – Professor, University of Texas at El Paso, Department of Biological Sciences.
Undergraduate Courses: *General Biology, General Biology Laboratory;*
Graduate Courses: *Environmental Pathobiology*
- 2012 – 2018 Associate Professor, University of Texas at El Paso, Department of Biological Sciences.
Undergraduate Courses: *General Biology, General Biology Laboratory, Cellular Biochemistry Laboratory, Techniques in Molecular Biochemistry, and Cellular Biochemistry Seminar;* Graduate Courses: *Environmental Pathobiology, Structure/Function of Macromolecules, and Research Funding and Professional Development*
- 2007 – 2012 Assistant Professor, University of Texas at El Paso, Department of Biological Sciences.
Undergraduate Courses: *General Biology and Techniques in Molecular Biochemistry;* Graduate Courses: *Environmental Pathobiology and Mechanisms of Cellular Toxicity*
- 2000 – 2002 Teaching Assistant, Tulane University, Department of Cellular and Molecular Biology.
Courses: *General Biology Laboratory*

CURRICULUM DEVELOPMENT AND COURSES TAUGHT

My teaching duties have alternated between one of the three lecture courses listed below each semester in addition to the various research courses, and contributions to co-taught courses and program/curriculum development listed below.

Biol 6301 – Environmental Pathobiology (2007-present)

This is a PhD level course that provides a broad background in the basic principles of toxicology and allows the students to apply that newly acquired knowledge to environmental contaminants of emerging concern including sources, exposure routes and physiological effects. This is a required course for our PhD students. I re-developed this course upon arriving to UTEP as the faculty member that previously taught the course left UTEP for a position at another institution. I have taught this course every Fall semester since starting at UTEP in 2007 and have continued to refine the course in response to student feedback.

Biol 5343 – Mechanisms of Cellular Toxicity (2008-2012)

This is a Masters level course as well as an elective course for PhD students. The course includes in depth coverage of organ system toxicity that result from the disruption of intracellular signaling pathways. I also re-developed this course as the faculty member that previously taught the course left UTEP for a position at another institution. I taught this course in Spring 2008, Spring 2010, and Spring 2012.

Biol 1305 – General Biology (2009-present)

This course covers basic mammalian biology for undergraduates. I have taught large sections of this course every Spring semester since 2009.

Biol 5343 – Structure/Function of Macromolecules (2012-2013)

I taught a section of this co-taught course in Spring, 2012 and 2013.

Biol 5308/6308 – Research Funding & Professional Development (2012-2016)

I helped develop this course and taught a section of the course every Fall since 2012. (team-taught, 15% contribution)

Cellular and Molecular Biochemistry B.S. Degree Program (2010-2016)

I lead the effort to develop a strong proposal for this new degree program within the Department of Biological Sciences and championed the proposal through the stages of approval within the university. This is an innovative program that provides students in the border region with the opportunity to receive intensive training in state-of-the-art techniques widely used in biomedical research, therefore providing them with the technical skills and knowledge required for high-skilled employment opportunities in the biomedical sciences. The courses incorporated into this program are divided into four areas including general education courses (48 credit hours), major core courses (44 credit hours), required chemistry courses (23 credit hours), and elective courses in specialized areas (5 credit hours). Various co-taught courses offered in the major core courses are unique to this program. These courses include a cellular biochemistry lab (CBCH 4414), a new biochemistry lecture course (CBCH 4310), and a seminar course focusing on advanced research techniques in biochemistry (CBCH 4320). The cellular and molecular biochemistry degree plan differs from other degrees offered within the Department of Biological Sciences primarily through a focus on research theory and practice in biochemistry. I also had a significant role in the development of CBCH 4414, described below, and have contributed to teaching all of the co-taught CBCH courses since 2010. I also served as the founding Director of this program over the last 6 years and was responsible for developing and implementing the program assessment, program advising, recruiting, and ensuring quality in the curriculum. These responsibilities included five additional curriculum change proposals that I prepared and championed through the stages of approval to continue to refine the degree plan and requirements over the last 6 years.

CBCH 4414 – Cellular Biochemistry Laboratory (Spring 2012-2014)

I worked closely with Dr. Sid Das to develop this course, which was designed to be a senior level laboratory course focused on providing students with advanced critical thinking, experimental design, technical and data analysis skills that will enhance their success in graduate programs in the biomedical sciences. This course is also one of the last touchpoints in the major and is used extensively for CMB program outcomes assessments. I taught a section of the course every Spring between 2012 and 2014 with a 15% contribution.

Freshman Year Research Intensive Sequence (FYRIS)

As part of our efforts to institutionalize the research-driven curriculum that is being developed and offered from the BUILDing SCHOLARS and the HHMI-funded PERSIST programs UTEP has combined these research driven courses under the FYRIS umbrella and opened them up to all students that wish to enroll. These courses replace the traditional general biology lab courses and meet 6 hours per week as opposed to the traditional 3 hours per week. In addition to my work in the administration of the BUILD program and curriculum, I also developed a FYRIS lab course that I manage with a Teaching Assistant from my laboratory. We have offered this course in the Fall and Spring of 2016-2017 and 2017-2018, and will be offering the course again in 2018-2019. The course I developed along with a short description is below.

Biol 1107 and Biol 1108 – FYRIS: Drug Development and Bioassay I & II (2016-present)

This course is designed to provide a broad understanding of the basic drug development process including understanding the molecular mechanisms of disease, drug target identification, high-throughput drug screening, and hit-to-lead optimization with a focus on prostate cancer therapeutics. The practical aspects of this course are focused on the hit-to-lead optimization of a novel prostate cancer drug that was initially identified in the Cox Laboratory and characterized for the treatment of hormone-refractory prostate cancer. Students are expected to develop a yeast-based assay for use in screening compound libraries and use this assay to screen drug modifications for improved drug activity. In the second semester students learn how the

methodology can be applied in many different fields of study and repurpose their yeast-based assays for screening environmental samples for the presence of endocrine disrupting compounds.

University-Wide Curriculum

As detailed in this CV, I have served in a wide-variety of capacities at the university and have significantly contributed to shaping the university-wide curriculum with the goal of enhancing student success university-wide. As Chair of the Undergraduate Curriculum Committee and President of the Faculty Senate, I have had a major role in ensuring quality in the curriculum university-wide. In addition to reviewing every curriculum change proposal at the university over a period of 4 years, I was also a major contributor to the development of the modified university core curriculum. I have significantly contributed to the development and implementation of the university-wide core curriculum assessment plan through my work on the Core Curriculum Assessment Team. I significantly contributed to the SACS/COC accreditation reaffirmation through my work on the SACS Review Steering Committee. More recently, I am significantly contributing to the universities next 10-year strategic plan (The UTEP Edge) focusing on high-impact practices inside and outside the classroom through my work on the Edge Steering Committee.

OTHER NON-CREDIT INSTRUCTION

- 2018 Guest Lecture, UTEP MBA Program, College of Business Administration, one-hour lecture on public speaking
- 2017 Guest Lecture, UTEP RISE workshop Directed by Dr. Elizabeth Walsh, one-hour lecture on Leadership
- 2017 Guest Lecture, UTEP MBA Program, College of Business Administration, one-hour lecture on public speaking
- 2016 Guest Lecture, UTEP RISE Course Directed by Dr. Renator Aguilera, two lectures over one week on Translating Basic Science and Entrepreneurship
- 2016 Guest Lecture, Rhodes University, Grahamstown, South Africa, two lectures over one week on drug development at the undergraduate level
- 2012 Workshop, UTEP Summer Research Experience for Undergraduates (REU) Program funded by NSF, five 1-hour sessions
- 2011 Workshop, UTEP Summer Research Experience for Undergraduates (REU) Program funded by NSF, five 1-hour sessions
- 2010 Workshop, UTEP Summer Research Experience for Undergraduates (REU) Program funded by NSF, five 1-hour sessions
- 2009 Workshop, UTEP Summer Research Experience for Undergraduates (REU) Program funded by NSF, five 1-hour sessions

FACULTY MENTORING

- 2018 – Luis Martinez, PhD, Associate Professor, Department of Biological Sciences, University of Texas at El Paso
- 2017 – Jwala Renukuntla, PhD, Assistant Professor, Pharmaceutical Sciences, School of Pharmacy, University of Texas at El Paso
- 2017 – Suman Sirimulla, PhD, Assistant Professor, Pharmaceutical Sciences, School of Pharmacy, University of Texas at El Paso
- 2014 – Charlotte Vines, PhD, Assistant Professor, Department of Biological Sciences, University of Texas at El Paso
- 2015 – Jeffery Olimpo, PhD, Assistant Professor, Department of Biological Sciences, University of Texas at El Paso

POST-DOCTORAL FELLOW MENTORING

Internal

- 2018 – Mayra Ortiz, PhD, Educational Leadership Post-Doctoral Fellow mentored in the Center for Faculty Leadership and Development
- 2016 – 2018 Amy Serafini, PhD, Educational Leadership Post-Doctoral Fellow mentored in the Center for Faculty Leadership and Development – currently a tenure-track Assistant Professor at Auburn University.
- 2011 – 2016 Jeff Sivils, PhD - currently tenure-track Assistant Professor at El Paso Community College
Project: Determining FKBP52 Regulation of Mammalian ABC Multidrug Resistance Transporters MDR1 and MRP1

External

- 2014 - 2016 Advisory committee member, K99/R00 grant entitled “The role of FK506 binding protein 51 in pulmonary arterial hypertension”, Audrey Vasauskas, PhD, Dept. of Biochemistry and Molecular Biology, University of South Alabama College of Medicine, Mentor – Donna Cioffi, PhD

MASTER’S THESIS AND DOCTORAL DISSERTATIONS DIRECTED

- 2017 - Olga Soto
- 2017 - Isela Rodriguez
- 2015 - Ashley Payan – In Candidacy
Project: Development of a Next Generation FKBP52 Inhibitor for the Treatment of Castration Resistant Prostate Cancer
- 2015 - Nina Ortiz – In Candidacy
Project: Functional Characterization of the FKBP52/beta-catenin/AR Interactions in Prostate Cancer
- 2014 - 2015 Theresa Rodriguez – MS proposal defended (May 2015); In Medical School at Paul Foster School of Medicine, Texas Tech University
Project: Developing a Yeast-Based Assay for the Functional Characterization of FKBP52/beta-catenin Interactions
- 2012 - 2013 Marisol O’Neil - MS proposal defended (May 2015); Marisol was a Masters student in another lab and that faculty member left on leave for a year. I took Marisol into my laboratory to complete her thesis; In PhD program at Baylor University in Houston, TX
- 2010 - 2016 Yenni Garcia – Completed PhD in Biological Sciences (May 2016); Postdoctoral Fellow at UCLA
Project: Structural and Functional Characterization of Small Glutamine Rich TPR-Containing Protein alpha
- 2009 - 2016 Naihuan Guy - Completed PhD in Biological Sciences (May 2016); Postdoctoral Fellow at the Vaccine and Infectious Disease Organization, Saskatoon, CA
Project: Direct Targeting of the FKBP52 Cochaperone for the Treatment of Prostate Cancer
- 2008 - 2014 Diondra Harris - Completed PhD in Biological Sciences (May 2014); was a Postdoctoral Research Fellow, University of Michigan, Ann Arbor, MI; currently a Post-Doctoral Fellow at Charles Drew University of Medicine and Science
Project: A Comparative Approach to Assessing the Functional Characteristics of FKBP52 in the Regulation of Steroid Hormone Receptor Signaling
- 2008 - 2013 Cheryl Storer - Completed PhD in Biological Sciences (May 2013); Assistant Professor, Department of Biology, Kettering University, Flint, MI
Project: A Novel Synergistic Relationship between β -Catenin and FKBP52
- 2008 - 2011 Johanny Tonos De Leon - Completed PhD in Biological Sciences (May 2011); Worked as a Research Scientist at USAMRIID in Frederick, MD; currently living in

France

- 2008 - 2010 *Project: Targeting FKBP52 Regulation of Androgen Receptor Signaling*
Atanu Paul - MS proposal defended (May 2010); obtained PhD from MD Anderson Cancer Center in Houston, TX; currently a research scientist at a small Biotech start-up in Boston, MA
Project: Functional Characterization of the SGTA Cochaperone in the Regulation of Steroid Hormone Receptor Signaling

SERVICE ON OTHER GRADUATE STUDENT COMMITTEES

Internal

PhD Candidates

- 2018 - Amie kern (Biology), member
2018 - Anahi Sanchez (Biology), member
2017 - Mengtao Xing (Biology), member
2017 - Alice Hernandez (Biology), member
2017 - Salvador Vazquez Reyes (Biology), Advocate
2017 - Jose Hernandez (Biology), Advocate
2017 - Qin Gao (Chemistry), outside member
2017 - Nasim Karimi Hosseini (Biology), Advocate
2016 - Yoshira Ayala-Marin (Biology), member
2016 - Lei Ma (Chemistry), outside member
2016 - 2018 Jonathan Abou-Fadel (Biology), Advocate, Graduated
2014 - 2017 Jitian Li (Biology), member, Graduated
2014 - Joaquin De Leon (Biology), member
2013 - 2016 Juan Cesar Bezares (Civil Engineering), member, Graduated
2012 - 2014 Ning-Jing Lei (Biology), member, Graduated
2011 - 2014 Pedro Jacquez (Biology), Advocate, Graduated
2011 - 2015 Yang Li (Biology), member, Graduated
2010 - 2017 Angie Lopez (Biology), member
2011 - 2016 Gloria Polanco (Biology), member, Graduated
2011 - 2014 Schveta Lavinia (Biology), member
2011 - 2014 Blanca Ruiz (Biology), member, Graduated
2010 - 2014 Mathew Gaynor (Biology), member
2010 - 2010 Abhisek Mitra (Biology), member, Graduated
2009 - 2012 Raquel Suro (Biology), member, Graduated
2009 - 2012 Bo Peng (Biology), member, Graduated
2009 - 2010 Zacariah Hildenbrand (Chemistry), outside member, Graduated
2009 - 2014 Jorge Sierra (Biology), member, Graduated
2008 - 2011 Jaidee Zavala (Biology), member, Graduated
2008 - 2008 Susan Van Weelden (Biology), Student Advocate
2007 - 2011 Roberto de la Torre Roche (Environmental Science and Engineering), member, Graduated
2007 - 2010 Javier Vargas-Medrano (Biology), member, Graduated
2007 - 2012 Debarshi Roy (Biology), Graduated

Masters Candidates

- 2017 - Zachary Parada (Biology), member
2016 - 2017 Nadia Rocha (Biology), member
2013 - 2014 Derrick Oaxaca (Biology), member, Graduated
2011 - 2013 Carmen Lozano (Chemistry), member, Graduated

2011 - 2012 Damaris Rosado (Biology), Graduated
 2011 - 2012 Melissa Harris (Biology), member - Graduated
 2008 - 2010 Sangita Pal (Biology), member - Graduated
 2007 - 2009 Mrudula Raparla (Physics), member - Graduated

External

2017 - Majid, M., PhD Candidate; Clark Atlanta University; Mentor: Dr. Jaideep Chaudhary
 2017 - 2017 Diana Dunn, Completed PhD; SUNY Upstate Medical University; Mentor: Dr. Mehdi Mollapour
 2013 - 2016 Jugal Joshi, Completed PhD; Clark Atlanta University; Mentor: Dr. Jaideep Chaudhary

UNDERGRADUATE and K-12 RESEARCH PROJECTS DIRECTED

(68% of those graduated have pursued post-graduate education, 55% of those graduated are in, or graduated from, a PhD program)

Undergraduate Students

2017 - 2018 Jonathan Munoz (BUILD Scholar)
 2017 - Aiyana Ponce (BUILD Scholar)
 2017 - Idalis Ramirez (Terry Scholar)
 2017 - Margarita Romero (BUILD Scholar)
 2016 - 2018 Kathia Rodarte (BUILD Scholar) – In PhD Program at UT Southwestern
 2016 Ashtyn Kilber (BUILD Summer Scholar)
 2016 Cesar Gonzalez (BUILD Summer Scholar)
 2016 - 2017 Swathi Venattu
 2015 - 2016 Rodrigo Martinez – In PhD Program at Arizona State University
 2014 Amanda Sierra (Bridges Summer Student)
 2013 - 2015 Jasmin R. Segovia – In clinical Laboratory Sciences Program at UTEP
 2013 - 2016 Luis Prieto - In PhD Program at the Mayo Clinic, Rochester, MN
 2013 Kristen Myers
 2012 - 2015 Paola Ramos - In PhD Program at the Mayo Clinic, Rochester, MN
 2012 - 2015 Omar Gutierrez - In PhD Program at the Mayo Clinic, Rochester, MN
 2012 - 2014 Reina Hernandez
 2011 - 2014 Tomas Molina - Scientist at Genetech
 2010 - 2013 Marisa Salomon – In Human Toxicology PhD Program at University of Iowa
 2010 - 2012 Karen Olivares – In Public Health Doctoral Program at University of Texas Southwestern
 2010 Kimberly Peuziat
 2010 Drew Bridges (REU Summer Student) – Graduated with PhD from Dartmouth Medical School
 2009 - 2010 Veronica Wells – Graduated with PhD from UT Houston
 2009 Josue Lopez (REU Summer Student) – In PhD program at the University of Iowa
 2009 - 2010 Yenni Garcia – Graduated with PhD from UTEP, currently post-doctoral Fellow at UCLA
 2008 - 2011 Jacaranda Solis – In Pathology Masters Program at Texas Tech University
 2008 - 2009 Jennifer Johnson – Obtained a Master’s degree from UTEP and is now in a PhD program at Baylor College of Medicine
 2008 - 2008 Priscilla Weikel
 2007 - 2008 Diana Parra
 2007 - 2009 Anais Martinez – In PhD Program at UTEP
 2007 - 2007 Melissa Henry – Clinical Laboratory Scientist at Del Sol Medical Center

High School Students

Summer 2013 Tulassi Gopalan - In Bachelors Program at Columbia University
Summer 2014 Kevin Zhang - In undergraduate Pharmacy Program at Rutgers University

PROFESSIONAL DEVELOPMENT ACTIVITIES

2017 Association of American Colleges & Universities (AAC&U) Summer Institute on Integrative Learning and Signature Work, Loyola University, Chicago, IL
2015 Attended Patenting versus Publication presentation from the Director of Technology Transfer
2013 Attended Patent Law Workshop
2010 Attended ORSP Faculty Luncheon
2009 Half Day Grant Writing Workshop, Offered through the College of Science
2008 - 2009 UTEP AWARE Program
2008 Faculty Retreat on Teaching and Learning
2008 Advising Training – Training on the use of new tools available within Banner/Goldmine.
2008 NSF CAREER Award Workshop – A 6-hour workshop covering topics ranging from how to prepare a CAREER proposal to how to organize other NSF proposals including equipment grants.

PROFESSIONAL SERVICE ACTIVITIES

2018 – 2019 Society of Basic Urologic Research 2019 Fall Symposium Planning Committee
2018 Abstract Committee, Society of Basic Urologic Research 2018 Fall Symposium
2017 - 2018 Chair, Society of Basic Urologic Research 2018 Fall Symposium Planning Committee
2016 - 2017 Society of Basic Urologic Research 2017 Fall Symposium Planning Committee
2016 NIH Website revisions reviewer
2015 - 2016 Chair, Awards Committee, Society of Basic Urologic Research 2016 Fall Symposium
2015 - 2016 Chair, Abstract Committee, Society of Basic Urologic Research 2016 Fall Symposium
2015 - 2016 Society of Basic Urologic Research 2016 Fall Symposium Planning Committee
2015 Abstract Reviewer, Annual Meeting of the Endocrine Society
2015 - By-Laws Committee, Society of Basic Urologic Research
2015 Abstract Committee, Society of Basic Urologic Research
2014 Abstract Reviewer, Annual Meeting of the Endocrine Society
2008 Abstract Reviewer, TTUHSC Research Colloquium

Editorial Board Membership

2015 - *Endocrinology*
2017 - *Nuclear Receptor Research*

Ad Hoc Journal Referee

Nature Communications, Cell Reports, Molecular Oncology, Scientific Reports, Expert Opinion on Therapeutic Targets, Environmental Toxicology, Journal of Molecular Biology, Investigational New Drugs, Journal of Cell Science, Psychoneuroendocrinology, PLoS One, Journal of Ethnopharmacology, International Journal of Molecular Sciences, Molecular Pharmaceutics, Journal of Molecular Cell Biology, Amino Acids, Molecular Endocrinology, Chemical Research in

Toxicology, FEBS Letters, Biochemistry, Pharmaceuticals, Archives of Environmental Contamination and Toxicology, Biochemical Journal, Experimental Cell Research, Biochimica et Biophysica Acta (BBA – Molecular Cell Research), Journal of Natural Products, Environmental Toxicology and Chemistry, Insect Molecular Biology, Science of the Total Environment, Cell Stress and Chaperones, International Journal of Biological Macromolecules, EMBO Reports, International Journal of Cancer, Journal of Ecosystem and Ecography, Biomedical and Environmental Sciences, Advances in Pharmacology, Environmental Monitoring and Assessment, Journal of Immunology Research, Molecular and Cellular Endocrinology, Journal of International Medical Research, Endocrinology, BBA-Proteins and Proteomics, Journal of Investigative Dermatology, Molecular Psychiatry, BBA-Clinical, Oncotarget, Cellular and Molecular Neurobiology, Biochimie Open, Journal of Medicinal Chemistry, Oncogene, The Journal of Pathology, Pharmaceutical Sciences

Study Sections

- 2018 Department of Defense (DOD), CDMRP Prostate Cancer Research Program, Cell Biology Study Section
- 2017 Department of Defense (DOD), CDMRP Prostate Cancer Research Program, Cell Biology Study Section

Ad Hoc Grant Reviews

- 2018 Ad Hoc, University of North Carolina System Undergraduate Research Program Proposals; provides funding to universities or consortia of universities within the UNC System to support and enhance undergraduate research
- 2017 Ad Hoc, University of North Carolina System Undergraduate Research Program Proposals; provides funding to universities or consortia of universities within the UNC System to support and enhance undergraduate research
- 2017 Ad Hoc, South African National Science Foundation, National Rating Proposal
- 2015 Ad Hoc, South African National Science Foundation, SARCHI Proposal
- 2015 Ad Hoc, NIH RTRN pilot Grant Program
- 2014 Ad Hoc, NIH RTRN pilot Grant Program
- 2012 Ad Hoc, Medical Research Council, England, Senior Non-Clinical Fellowship
- 2011 Ad Hoc, National Science Foundation, Full Project Proposal
- 2011 Ad Hoc, National Science Foundation, summer internship proposals
- 2008 American Diabetes Association

UNIVERSITY ACTIVITIES

Development Activities

- 2018 Helped organize and played a major role in hosting a major donor for a two-day visit to UTEP
- 2016 Presented on the state of research at UTEP and reaching Tier One Status to the Rotary Club of El Paso
- 2015 Helped organize and played a major role in hosting a major donor for a two-day visit to UTEP
- 2013 Helped organize and played a major role in hosting a major donor for a two-day visit to UTEP
- 2012 Played a major role in securing a \$1 million commitment to the students in the Department of Biological Sciences
- 2012 Presented on the state of research at UTEP and reaching Tier One Status to Discover El Paso
- 2012 Presented on the state of research at UTEP and reaching Tier One Status to the UTEP Development Board

- 2012 Presented on the state of research at UTEP and reaching Tier One Status to the Women's Auxiliary
- 2011 Presented at and supported Stanton Magazine's Bachelor Auction to raise funds for Prostate Cancer Research

Media Contributions

- 2016 KTSM News Radio, Interview regarding Inventor of the Year Award
- 2012 Contributed to a KFOX14 news Special Assignment on exposure to and effects of bishpenol A, <http://www.kfoxtv.com/news/news/bpa-found-unusual-places/nS6DJ/>
- 2012 Guest on Science Studio, NPR Radio Show, Hosted by Keith Pannell and Russel Chianelli
- 2011 Guest on El Paso Prime Time, NPR Radio Show, "Toxins: How to Minimize Exposure"
- 2011 Contributed to *El Paso Times* News Story, "Grants put UTEP closer to top tier", http://www.elpasotimes.com/news/ci_18510659

Community Service and Engagement

- 2018 Worked with teachers from both Canutillo and Silva High Schools to develop a yeast assay for use in the classroom
- 2017 - 2018 EDGEducation Exchange Program Participant, paired with STEM teachers at Canutillo High School
- 2016 - 2017 Member of the inaugural class of the Provost's Community-Engaged Scholars Institute
- 2016 - Member of the Montwood High School T-STEM Advisory Board
- 2016 Helped organize a "Toxic Tour" to raise awareness of public health problems faced by residents in the Segundo Barrio, Familias Unidas del Barrio Chamizal
- 2016 Guest Panelist, "Exposure to Contamination and Health Hazards", Familias Unidas del Barrio Chamizal, Community Health Fair
- 2015 - 2016 External Advisory Board Member, Eastlake High School
- 2014 - 2017 Member of the Eastlake High School External Advisory Board
- 2014 - 2017 Mentor for a Project Lead The Way trained teacher at Eastlake High School
- 2014 Judge, Howard Burnham Elementary School Science Fair
- 2013 Judge, science fair at Howard Burnham Elementary School
- 2009 Consulted for a high school student's science project (Jessica Budtke)
- 2009 Supervised a high school student's research for a high school science project (Abraham Galindo)
- 2009 Judge, El Paso Independent School District science fair judge
- 2008 Judge, science fair at the Da Vinci School for Science and the Arts
- 2007 Judge, Ascarate Elementary School Science Fair

UT System-Level Service

- 2018 - UTEP Presidential Search Advisory Committee
- 2015 - 2016 UT System Working Group to Revise UTS-125 on Intellectual Property
- 2014 - 2016 Member of Executive Committee and Co-Chair of Governance Committee, UT System Faculty Advisory Council

University-Level Service

- 2017 - UTEP Tuition and Finance Committee
- 2017 Director of International Programs Search Committee
- 2016 - 2018 UTEP Edge Steering Committee (Strategic Planning for Student Success Initiative),

UTEP Provost's Office and Student Affairs
 2015 UTEP Tuition and Finance Committee
 2015 - 2016 Concealed Carry Task Force, appointed by the President, Charged with identifying campus spaces where concealed handguns should be excluded, developing policies and communication strategies associated with educating the campus and visitors about the new law, and recommending safety and enforcement practices that will ensure the rights of all campus constituents.
 2015 Served on committee to select Terry Scholarship Recipients
 2015 Judge, Frank and Poly Ann Morrow Outstanding International Student Awards
 2015 Reviewer, Dodson Research Grants, UTEP Graduate School
 2014 – 2016 President-Elect of Faculty Senate and Chair of Executive Council, University of Texas at El Paso
 2014 - Handbook of Operating Procedures (HOP) Stakeholders Committee, appointed by the President to serve in an advisory capacity for ensuring that the HOP is continually updated and that stakeholders have input in the process.
 2014 - Faculty Advisor, Theta Chi Fraternity
 2014 Focus Group, participated in Focus Group discussing ways in which the Division of Student Affairs at UTEP can better engage the university community
 2014 Judge, The Frank and Polly Ann Morrow Outstanding International Student Award, Office of International Programs, UTEP
 2013 - 2016 Conflict Resolution Task Force, working with Ryan Holmes to revise UTEP's conflict resolution and mediation process
 2013 - 2016 UTEP SACS Steering Committee
 2013 - 2018 UTEP Core Curriculum Assessment Team (CAT)
 2013 – 2014 Vice President and Member of Executive Council, Faculty Senate
 2013 - 2014 CourseLeaf Planning and Implementation Committee, Provost's Office, Charged with advising on the development and implementation of the CourseLeaf software for the submission, tracking and implementation of curriculum changes at the university.
 2013 - 2018 Intellectual Property Committee, Office of Research and Sponsored Projects and the Office of Technology Transfer, UTEP
 2013 Judge, 3rd Annual Graduate Research Expo, UTEP
 2012 - 2013 Chair, Faculty Senate Undergraduate Curriculum Committee
 2012 - 2013 Faculty Senate Academic Policy Committee
 2012 - 2013 Workgroup to Revise University Core Curriculum
 2012 Interim Chair, Faculty Senate Academic Policy Committee
 2012 Presented at the Collaborative Faculty Mentoring Program, "Research Demands and Productivity: The Impact Factor"
 2011 Focus Group – Sponsored by the Provost - attitudes and interests in course transformation using innovative management techniques and technology
 2011 Scientific Supplier Focus Group: Assessing scientific supplier performance and making recommendations for improvements
 2011 Judge, Annual Student Organization Excellence Awards, UTEP Student Development Office
 2011 Reader for the Graduate School Best Thesis and Dissertation award
 2010 - 2012 Faculty Senate Undergraduate Curriculum Committee
 2010 Poster Judge – LSAMP Research Symposium
 2010 Judge, Student Organization Awards, Student Development Center
 2009 - 2012 Secretary, Faculty Senate Academic Policy Committee
 2009 - 2010 Financial Aid Appeals Committee, reviewing individual cases in which a student's financial aid has been revoked and making recommendations as to whether or not to reinstate the financial aid based on relevant facts. Office of Student Financial Aid
 2009 Judge, Greek Week Lip Synch Contest, Managed by Student Development Center
 2009 Attended the Student Government Association Awards Banquet
 2009 Judge, UTEP Student Research Expo

- 2009 Reviewer, Who's Who Among American Colleges and Universities and UTEP's Men and Women of Mines awards, Managed by the Student Development Center
- 2008 Advising Task Force - Bridging the Gap Subcommittee, Chairs – Gloria Ambler and Maggie Smith
- 2008 Served on a Faculty Panel, New Graduate Student Orientation, "Making the Most of Your Graduate School Experience"
- 2008 Judge, UTEP Student Research Expo
- 2007 - 2008 Foundations of Excellence – Roles and Purposes Subcommittee, Evaluating the first-year student experience at UTEP using transfer students as a model. Chairs – Michael Topp and Donna Ekal
- 2007 - 2008 Bioengineering Search Committee, Tasked with hiring 2 new Biomedical Engineering Faculty in the Engineering Department, I served as the BBRC representative on this committee. Chair – Joseph Perlussi
- 2007 - 2008 Faculty Advisor for Students Without Borders

College-Level Service

- 2013 COS Staff Search – search to hire an Assistant Director of Research
- 2013 - 2017 Undergraduate Degree Evaluation Committee, College of Science, UTEP
- 2013 Attended a recruiting fair at Eastlake High School
- 2012 - 2017 College of Science Orientation and Recruitment Committee, UTEP
- 2011 College of Science Best Thesis/Dissertation Selection Committee
- 2011 Reviewer for the COURI Research Award Competition, UTEP College of Science
- 2011 Abstract Reviewer, 1st Annual COURI Symposium, UTEP College of Science
- 2008 - 2018 Faculty Advisor, College of Science Graduate Student Council

Department-Level Service

- 2017 - Chair, Workload Assignment Committee, Department of Biological Sciences
- 2016 - External Advisory Committee, Research Initiative for Scientific Enhancement (RISE) Program at University of Texas at El Paso
- 2016 - 2017 Chair, Disease Biology Search Committee, BBRC and Department of Biological Sciences
- 2015 - Space Allocation Committee, Department of Biological Sciences
- 2015 - 2016 Chair, Epidemiologist Search Committee, BBRC and Department of Biological Sciences
- 2015 Provided BBRC tours for UNIV 1301 students - ~60 students in total
- 2015 Provided BBRC tours for delegation from the UT System Office of Technology Transfer
- 2014 Provided BBRC tours for the UTEP component of the STEM Fiesta
- 2014 Provided BBRC tour for UTEP's Centennial Open House
- 2012 - 2013 Chair, Cancer Biology Search Committee, Department of Biological Sciences
- 2012 Taught a session of the RISE Journal Club
- 2012 Taught a 1-hour workshop on publishing high impact papers for RISE graduate students
- 2011 Performed Teaching Evaluation for Dr. Jianjun Sun, Department of Biological Sciences, UTEP
- 2010 - 2016 Cellular and Molecular Biochemistry PhD Program Planning Committee, Chair, Proposal for Preliminary Authority submitted on Oct. 2010. Full proposal ready to be submitted upon approval of preliminary authority.
- 2009 - 2012 Toxicology Search Committee, Tasked with hiring two new toxicologists within the Toxicology Unit of the BBRC
- 2009 - 2012 Undergraduate Biochemistry Degree Planning Committee, Chair, developing a suitable degree plan for a Biochemistry concentration within Biology, writing the

proposal, and championing the proposal through various stages of approval. The new BS in Cellular and Molecular Biochemistry was officially approved in September 2010.

- 2011 - 2018 Faculty Advisor for the Biological Sciences Graduate Student Association (BSGSA)
- 2011 Provided a BBRC tour for the UTEP AWARE Program
- 2011 Taught a 1-hour workshop on preparing an academic CV for RISE graduate students