CURRICULUM VITA

Teresa A. Golden
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Professor, Biology
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EDUCATION:

1994-1999	Ph.D.	Molecular Biology	University of Rochester, Rochester, N.Y.
1992-1994	M.S.	Molecular Biology	University of Rochester, Rochester, N.Y.
1988-1992	B.S.	Biology	State University of New York at Albany, Albany, N.Y.

ACADEMIC AND RELATED NON- ACADEMIC EXPERIENCE-:

2019-	Vice President for Academic Affairs Southeastern Oklahoma State University, Durant, OK.
2019 June-Oct.	Associate Vice President for Assessment and Accreditation, Southeastern Oklahoma State University, Durant, OK.
2017-2019	Professor, Chair, Department of Biological Sciences, Southeastern Oklahoma State University, Durant, OK.
2011-2017	Associate Professor, Chair, Department of Biological Sciences, Southeastern Oklahoma State University, Durant, OK.
2010, 2011 (Summer Only)	Interim Department Chair, Department of Biological Sciences Southeastern Oklahoma State University, Durant, OK.
2006-2011	Assistant Professor, Department of Biological Sciences, Southeastern Oklahoma State University, Durant, OK.
2000-2006	Postdoctoral Research Fellow, Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama, Mobile, AL.
2001-2002	Consultant, Ingenuity Systems, Silicon Valley, CA.
1990-1991	Chemist Aide (summer internships) in a sanitary bacteriology lab, New York State Health Department, Wadsworth Center, Albany, NY.

Additional Academic Roles

2022-	Qualified AACSB (Association to Advance Collegiate Schools of Business) Peer Reviewer.
2018-	Qualified HLC (Higher Learning Commission) Peer Reviewer/Peer Corps member.

SELECTED COMMITTEES AND SPECIAL ASSIGNMENTS:

After moving to Administration (2019-)

2022-	Serve as a Facilitator for the Oklahoma Course Equivalency meetings, area of Music; Biology.
2020-2022	Serve on the City of Durant COVID Taskforce
2019-2022	Serve on the governing board for the Imagine Durant organization.
2020-2022	Chair of the Oklahoma Council of Academic Officers
2019-	Member of the Oklahoma Council of Academic Officers
2019-	Serve on the Dean's Council for the Oklahoma IDeA Network of Biomedical Research Excellence.
2019-	Serve as a member of the Oklahoma Research Day Council

As a Faculty Member (from 2006-2019)

2018-2019	Chair, Faculty Appellate Committee
2018	Member of travel group including President Burrage, VPAA Clark and Dr. Ning Wu to China to sign agreements with two Universities and a Research Consortium.
2017-2018	Member, Faculty Appellate Committee
2015-2016	Member, Presidential Advisory committee on Grants.
2014	Completed Program Review Report and Response for the Master of Technology Program, Option Biology
2013	Member, interview committee appointed by the Dean of Enrollment Management for new Director of Admissions and Recruitment
2012-2015	Member, Southeastern Human Subjects Research Review Committee
2012-2014	Member, Southeastern, Institutional Assessment Committee
2012	Member, advisory committee to the Assistant Dean of Distance and Adult Education regarding lecture capture technology systems.
2012	Outside member, tenure committee, for Dept. of Occupational Safety and Health
2011-2019	Member, Southeastern Academic Council
2011-2014	Participant (Grp5), SE/Harvard Professional Development Program
2011-2012	Chair, Southeastern Graduate Council
2010-2011	Vice-Chair, Southeastern Graduate Council
2010 & 2011	Interim Department Chair (summer), Dept. of Biological Sciences

2009	Chair, Search Committee- Biology Instructor
2009-2010	Chair, Southeastern Graduate Council
2008-2009	Vice-Chair, Southeastern Graduate Council
2008-2019	Member, Southeastern Graduate Council
2008-2019	Coordinator, Master of Technology Program, Option Biology
2007-2008	Southeastern Representative to the Oklahoma Bio2010 Task Force

Advisement (2006-2019)
Advised an average of 30 students per semester (graduate plus undergraduate) in the following areas:
Undergraduate Biology Health Science Majors
Undergraduate Medical Science Majors
Master of Technology – option Biology
Undergraduate Biotechnology Majors (2006-2012)

AWARDS AND HONORS:

2018	**Awarded, Faculty Senate Award in Service**
2018 (Feb.)	**"Extra Degree" Award** for University Service
2016-2017	Nominated, Faculty Senate Award in Teaching
2015-2016	Nominated Faculty Senate Award in Service
	Nominated, Faculty Senate Award in Teaching
	Nominated, Faculty Senate Award in Research
2013-2014	Nominated, Faculty Senate Award in Service
2012-2013	**True Blue Spirit Award**
2011-2012	**Enrollment Management Partnership Award**
	Nominated, Faculty Senate Award in Research
2010-2011	**Awarded, Faculty Senate Award in Research**
	Nominated, Faculty Senate Award in Teaching
2009-2010	Nominated, Faculty Senate Award in Research
2008-2009	Nominated, Faculty Senate Award in Teaching
	Nominated, Faculty Senate Award in Research
2007-2008	Nominated, Faculty Senate Award in Teaching

PROFESSIONAL RESEARCH INTERESTS:

-Focused on how cells respond to stress and how this response might cause cancer or disease. This includes studies on: human phosphatases, cancer, cell stress, antioxidants/natural products and RNA interference. Collaborations involve studies of the genes, proteins, processes, and neuronal cells involved in depression.

-Thesis research included genetic, flowering time, gene sequencing, and gene silencing studies in the plant *Arabidopsis thaliana*.

PROFESSIONAL MEMBERSHIPS:

American Association for the Advancement of Science (AAAS)
Council on Undergraduate Research (CUR)

American Chemical Society (ACS)
American Association of University Professors (AAUP)

EFFECTIVE TEACHING (2006-2019):

Reorganized and implemented updated versions of BIOL 3404 Genetics, BIOL 3404L Genetics Lab, BIOL 3814 Cell & Molecular Biology, and BIOL 3814L Cell & Molecular Biology Lab courses.

Designed and implemented a new version of the BIOL/CHEM 4124 Molecular Genetics course for the Biological Sciences Department.

Continue to assist other members of the Biology Department in updating the courses with departmentally approved syllabi: BIOL 1404 Principles of Biology I lecture and lab, BIOL1114 General Biology lecture and lab, as well as BIOL 4981 Senior Seminar as needed. This includes changes in course objectives, textbooks, and laboratory exercises.

Several students have completed Honor's Program contracts through my course offerings of BIOL 3404 Genetics, BIOL 3814 Cell & Molecular Biology, and BIOL/CHEM 4124 Molecular Genetics.

Four-time nominee for the Faculty Senate Award in the area of Teaching.

Online teaching certification in Quality Matters, Applying the QM Rubric, March 2013.
Online teaching certification in Quality Matters, QM Rubric Update Sixth Edition, January 2019.

Courses Taught

BIOL-1114W –General Biology online
BIOL 1404 - Principles of Biology I
BIOL 1404L - Principles of Biology I Lab
BIOL 3404 – Genetics
BIOL 3404L – Genetics Lab
BIOL 3702W- History of Biology online
BIOL 3814 - Cell & Molecular Biology
BIOL 3814L - Cell & Molecular Biology Lab
BIOL/CHEM 4124 - Molecular Genetics
BIOL 4642 – Bioethics
BIOL 4960 – Directed Reading
BIOL 4981 - Senior Seminar
BIOL 4990 – Research
BIOL 5124 - Molecular Genetics
BIOL 5960 – Directed Reading
BIOL 5990 – Research

PUBLICATIONS:
https://www.ncbi.nlm.nih.gov/myncbi/1b7YuASYl5rAc/bibliography/public/

Refereed Journal Articles:

Zhao, J. J., Zhang, P., Li, L., Chen, S. X., Joines, A., Wu, D., Wong, M., Shahan, J., Golden, T., Wu, N., Li, M. Z. (2018). Differential gene expression profile analysis in corticosterone-treated PC12 cells. *Int J Clin Exp Pathol 11(6), 3097-3103*.

Greenwood, R., Zhao, J., Ludrick, B., Golden, T., Wu, N. (2018). A Practical Animal Model for Depression by Reserpine-Administered Mice. *Theranostics Brain Disord. 3(2), 555609*.

Zhao, J. J., Zhang, P., He, Z., Chen, S. X., Golden, T., Li, L., Li, M. Z., Wu, N. (2018). The stress response HPA-axis hormone, glucocorticoid, reduces cellular SKA complex gene expression. *Psychiatry Research, 260, 428–431. (DOI: 10.1016/j.psychres.2017.12.024)*

Joines, P., Ludrick, B. Golden, T., Wu, N. (2017). The functional analysis of intracellular MAPK pathways in major depressive disorder. *Austin Med. Sci.*, 2(1):1015.

Bastible, S. T., Golden, T., Wu, N. (2016). Functional Analysis of SKA Complex and its Family Members. *Austin Med. Sci.*, 1(2):1007.

Zhao, J. J., Guo, X., Du, Y., Han, Y., Wang, Y. Z., Li, L., Qian, J. L., Li, M. Z., Wu, H. J., Golden, T., Wu, N. (2016). Correlative study of peripheral ATP1A1 gene expression level to anxiety severity score on major depressive disorder patients. *Journal of Basic and Clinical Physiology and Pharmacology*, 27(6):563-567. doi: 10.1515/jbcpp-2015-0148

Li M., Zhou J., Qian J., Cheng X., Wu H., Li L., Qian C., Su J., Wu D., Burns L., Golden T., & Wu N. (2016). Target Genes Involved in Corticosterone-induced PC12 Cell Viability and Neurite Disorders: A Potential Molecular Mechanism of Major Depressive Disorder. *Psychiatry Res.* 235:206-8. doi: 10.1016/j.psychres.2015.11.044.

Ding, L., Zhang, X., Guo, H., Yuan, J., Li, S., Hu, W., Golden, T., & Wu, N. (2015). The Functional Study of a Chinese Herbal Compounded Antidepressant Medicine - Jie Yu Chu Fan Capsule on Chronic Unpredictable Mild Stress Mouse Model. PLoS One, 10(7):e0133405. doi: 10.1371/journal.pone.0133405.

Zhang, Y., Han, Y., Wang, Y., Zhang, Y., Li, L., Deng, L., Watts, B., Golden, T., & Wu, N. (2015). A MRS study of metabolic alterations in the frontal white matter of major depressive disorder patients with the treatment of SSRIs. *BMC Psychiatry*, 15:99. doi: 10.1186/s12888-015-0489-7.

Golden, T., Aragon, I.V., Rutland, B., Tucker, J.A., Shevde, L.A., Samant. R.S., Zhou, G., Amable, L., Skarra, D., & Honkanen, R.E. (2008). Elevated levels of ser/thr protein phosphatase 5 (PP5) in human breast cancer. *BBA - Molecular Basis of*

Disease, 1782, 259-270.

Zhou, G., Golden, T., Aragon, I.V., & Honkanen, R.E. (2004). Ser/thr protein phosphatase 5 (PP5) inactivates hypoxia-induced activation of an ASK-1/MKK-4/JNK-signaling cascade. *J. Biol. Chem., 279(45),* 46595-46605.

Golden, T., Aragon, I.V., Zhou, G., Cooper S.R., Dean, N.M., & Honkanen, R.E. (2004). Constitutive over expression of serine/threonine protein phosphatase 5 (PP5) augments estrogen-dependent tumor growth in mice. *Cancer Letters, 215,* 95-100.

Golden, T.A, & Honkanen, R.E. (2003). Regulating the expression of Protein Phosphatase type 5. *Methods Enzymol., 366,* 372-90.

Urban, G., Golden, T., Aragon, I.V., Cowsert, L., Cooper S.R., Dean, N.M., & Honkanen, R.E. (2003). Identification of a functional link for the p53 tumor suppressor protein in Dexamethasone-induced growth suppression. *J. Biol. Chem., 278,* 9747–9753.

Golden, T.A., Schauer, S.E., Lang, J.D., Pien, S., Mushegian, A.R., Grossniklaus, U., Meinke, D.W., & Ray, A. (2002). *SHORT INTEGUMENTS1 / SUSPENSOR1 / CARPEL FACTORY*, a Dicer homologue, is a maternal-effect gene required for embryo development in Arabidopsis. *Plant Physiology, 130,* 808-822.
+33 citations per www.researchgate.net

Urban, G., Golden, T., Aragon, I.V., Scammell, J.G., Dean, N.M., & Honkanen, R.E. (2001). Identification of an Estrogen-inducible Phosphatase (*PP5*) that converts MCF-7 human breast carcinoma cells into an Estrogen-independent phenotype when expressed constitutively. *J. Biol. Chem., 276,* 27638–27646.

Ray, A., Lang, J.D., Golden, T., & Ray, S. (1996). *SHORT INTEGUMENT* (*SIN1*), a gene required for ovule development in Arabidopsis, also controls flowering time. *Development, 122,* 2631-2638.

Ray, S., Golden, T., & Ray, A. (1996). Maternal effects of the *short integument 1* mutation on embryo development in Arabidopsis. *Dev. Biol,. 180,* 365-369.

Published Abstracts and Reviews:

Golden, T., Shakya, P., Ale, S., Ritchie, R., Brannock, C., Davis, A., and Perkins-Veazie, P. (2012) Effects of lycopene extracts on tissue culture cells. (paper #161) American Chemical Society, National Meeting, San Diego, CA.

Golden, T., Jones, B, Taber, A., Cloyde, M., Ritchie, R., Davis, A., and Perkins-Veazie, P. (2011) Lycopene effects in tissue culture cells. (paper #121) American Chemical Society, National Meeting, Anaheim, CA.

Golden, T., Swingle, M., & Honkanen, R.E. (2008). Role of serine threonine protein phosphatase type 5 (PP5) in the regulation of stress induced signaling networks

and cancer. *Cancer and Metastasis Reviews, 27,* 169-178.
+56 citations per www.researchgate.net

Golden, T., Dean, N.M., & Honkanen, R.E. (2002). Use of antisense oligonucleotides: Advantages, controls, and cardiovascular tissue. *Microcirculation, 9,* 51-64.

Honkanen, R.E. & Golden, T. (2002). Regulators of serine/threonine protein phosphatases at the dawn of a clinical era? *Current Medicinal Chemistry, 9,* 2055-2075.
+195 citations per www.researchgate.net

OTHER PROFESSIONAL ACTIVITIES:

Invited Non-Published Presentations:

Golden, T., (2016 [May 17]). *PP5, a Ser/Thr Protein Phosphatase that Aids Tumor Growth*. Weekly Seminar Series: Beijing Friendship Hospital, Capital Medical University; Beijing, China.

Golden, T., (2016 [May 24]). PP5, a Ser/Thr Protein Phosphatase that Aids Tumor Growth. Special Seminar: Beijing Center for Physical and Chemical Analysis; Beijing, China.

Ritchie, R., Taylor, R., Villamil, A., Thomas, S., and Golden, T. (2010). *Continuous Over-Expression of Protein Phosphatase 5 (PP5) with Reduced Catalytic Function in Tissue Culture Cancer Cells.* (exhibit 19 [of 22 invited]) Research Day at the Capitol; State Capitol of Oklahoma.

Golden, T. (2008). *Examination of the role of Protein Phosphatase 5 (PP5) in cell stress and cancer.* Retreat for INBRE and CORE investigators and students at OUHSC, Oklahoma City, OK.

Golden, T., Aragon, I.V., Urban, G., Dean, N.M., and Honkanen, R.E., (2002). *Both Ser/Thr Protein Phosphatase 5 and P53 Play a Functional Role in Glucocorticoid Receptor-Mediated Growth Control of Human Cells.* FASEB Summer Research Conference on Protein Phosphatases; Snowmass, Colorado.

Golden, T., Aragon, I.V., Cooper, S.R., Watts, L., Dean, N.M., and Honkanen, R.E., (2000). *Development of Antisense Oligonucleotides that Specifically Inhibit the Expression pf Ser/Thr Protein Phosphatase 5 (PP5) in vivo*. FASEB Summer Research Conference on Protein Phosphatases; Copper Mountain, Colorado.

Other Non-Published Presentations and Abstracts:

Perez, L., Cole, B., Costain, E., Ludrick, B., Golden, T., Wu, N. (2018). Southeastern Oklahoma State University undergraduate OK-LSAMP-scholars participated in the NSF-supported summer international research training program in Beijing, China. Oklahoma Research Day, Enid, OK (March 9, 2018)

Costain, E., Ludrick, B., Golden, T., Wu, N. (2018). Searching for a fast, simple way to accurately measure protein concentration in colored bacterial cultural media by spectrophotometer. Oklahoma Research Day, Enid, OK (March 9, 2018)

Cole, C., Costain, E., Perez, L., Golden, T., Ludrick, B., Wu, N. (2017). The NSF OK-LSAMP program supports SE undergraduate summer international research activities in Beijing, China. *23rd Annual OK-LSAMP Research Symposium, Stillwater, OK (September 16, 2017)*

Blackwell, A., Chen, S. X., Golden, T., Wu, N. (2017). Corticosterone induced PC12 cell SKA family gene expression level changes. *Oklahoma Research Day, Enid, OK (March 3, 2017)*

Shahan, J., Golden, T., Wu, N. (2017). Bioinformatical analysis of corticosterone-induced neuronal cell gene expression profile changes. *Oklahoma Research Day, Enid, OK (March 3, 2017)*

Long, Q., Golden, T., Wu, N. (2017). Elevation of adrenal gland cortex hormone level may increase neuronal cell neurotransmitter degradation. *Oklahoma Research Day, Enid, OK (March 3, 2017)*

Joines, P., Golden, T., Wu, N. (2017). The role of MAPK pathways on major depressive disorder. *Oklahoma Research Day, Enid, OK (March 3, 2017)*

Maxwell, M., Love, C., and Golden, T. (2016). *Examination of Cancer Cell Stress Protection by Overexpression of Protein Phosphatase 5*. (abstract 05.03.79) Oklahoma Research Day, Tahlequah, OK.

Bastible, S., Golden, T., Wu, N. (2016). The influence of corticosterone on SKA family gene expression: a potential mechanism of major depressive disorder development. (abstract 05.03.14) Oklahoma Research Day, Tahlequah, OK.

Holbert, B., Bourne, H., Golden, T., Wu, N. (2016). *The MAPK pathway gene expression level changes in response to quick increase of glucocorticoids in external cellular environment.* (abstract 05.11.01) Oklahoma Research Day, Tahlequah, OK.

Joines, A., Shahan, J., Golden, T., Wu, N. (2016). *Next-generation sequencing and bioinformatical analysis of corticosterone induced PC12 cell transcriptome.* (abstract 05.03.16) Oklahoma Research Day, Tahlequah, OK.

Love, C., Sharp, P., Golden, T., Wu, N. (2016). *Construction of rat chronic unpredictable mild stress animal model.* (abstract 05.03.02) Oklahoma Research Day, Tahlequah, OK.

Frizzell, A., Golden, T., Wu, N. (2016). *Dose response and time course of corticosterone induced gene expression level changes in MAPK pathway.* (abstract 05.03.12) Oklahoma Research Day, Tahlequah, OK.

Ongonwou Renkele, C., Cuevas, K.. and Golden, T. (2015) *Effects of Altered Protein Phosphatase 5 (PP5) Overexpression on Breast Cancer (MCF-7) Cells*. OK-INBRE Summer Program Poster Session, OUHSC, Oklahoma City, OK.

Cuevas, K., and Golden, T. (2015) *Effects of Altered Protein Phosphatase 5 (PP5) in Cancerous and Noncancerous Cells*. (abstract 05.03.93) Oklahoma Research Day, Tahlequah, OK.

Cuevas, K., Urmila, K.C., Gibby, L., Pace, P., Ritchie, R. and Golden, T. (2014) *Fluorescence Microscopy and its Usage in Determining Effects of Altered Protein Phosphatase 5 (PP5) on Cancerous and Noncancerous Cells*. OK-INBRE Summer Program Poster Session, OUHSC, Oklahoma City, OK.

Urmila, K.C., Martin, C., Showalter, A., Wade, N., Pace, P., Ritchie, R. and Golden, T. (2013) *Role of Altered Protein Phosphatase 5 (PP5) in Cancer Cells Compared to Normal Cells*. OK-INBRE Summer Program Poster Session, OUHSC, Okc, OK.

Brannock, C., Ritchie, R. and Golden, T. (2012) E*ffects of Lycopene in Watermelon Extracts on Tissue Culture Cells.* (abstract 05.03.28) Oklahoma Research Day, University of Central Oklahoma, Edmond, Oklahoma.

Shakya, P., Ale, S., Tilly, C., Javed, U., Davis, A., and Perkins-Veazie, and Golden, T. (2011) E*ffects of Lycopene in Watermelon Extracts on Tissue Culture Cells.* (abstract 05.03.35) Oklahoma Research Day, Cameron University, Lawton, Oklahoma.

Pace, P., Wade, N., Shupert, C., Brannock, C., Ritchie, R. and Golden, T. (2011) *Over-Over-Expression of Protein Phosphatase 5 Decreases the Growth Rate of Human Fibroblast Cells.* (abstract 05.03.69) Oklahoma Research Day, Cameron University, Lawton, Oklahoma.

Wade, N., Pace, P., Tilly, C., Ritchie, R. and Golden, T. (2011) *Over-Expression of Protein Phosphatase 5 (PP5) with Reduced Catalytic Function in Cancer Cells.* OK-INBRE Summer Program Poster Session, OUHSC, Oklahoma City, OK.

Ritchie, R., Thomas, S., and Golden, T. (2011). *Over-Expression of Catalytically Reduced Protein Phosphatase 5 (PP5) Decreases Tissue Culture Cancer Cell Growth Rate*. (poster #631) American Chemical Society, National Meeting, Anaheim, CA.

Ritchie, R., Thomas, S., and Golden, T. (2010). *Over-Expression of Catalytically Reduced Protein Phosphatase 5 (PP5) Decreases Tissue Culture Cancer Cell Growth Rate*. (abstract 05.03.75) Oklahoma Research Day, Cameron University, Lawton, Oklahoma.

Cloyde, M., Taber, A. and Golden, T. (2010) *Effects of Lycopene on Tissue Culture Cells*. (abstract 05.03.37). Oklahoma Research Day, Cameron University, Lawton, Oklahoma.

Ritchie, R., Thomas, S., and Golden, T. (2010). *Constitutive Over-Expression of Protein Phosphatase 5 (PP5) With Reduced Catalytic Function In Tissue Culture Cancer Cells.* (abstract 108) National IDeA Symposium of Biomedical Research Excellence (NISBRE); Bethesda, Maryland.

Villamil, A., Jones, B., Perkins, P., and Golden, T., (2009). *Effects of Lycopene on Tissue Culture Cells.* (abstract 05.01.52) Oklahoma Research Day; NSU, Broken Arrow, OK.

Ritchie, R., Taylor, R., Villamil, A., Thomas, S., and Golden, T. (2009). *Constitutive Over-Expression of Protein Phosphatase 5 (PP5) With Reduced Catalytic Function In Tissue Culture Cancer Cells.* (abstract 05.01.50) Oklahoma Research Day; NSU, Broken Arrow, OK.

Jones, B., Puckett, T., Bryant, B., Cloyde, M., Jagannati, S., Jagannati, S., Perkins, P., and Golden, T. (2009). *Lycopene Effects in Tissue Culture Cells.* (Abstract #4 of the 'General Poster Section' March 29). AAAS Southwestern and Rocky Mountain (SWARM) Division of the American Association for the Advancement of Science 84th Annual Multidisciplinary Meeting; University of Tulsa, Tulsa, OK.

Jones, B., Puckett, T., Bryant, B., Perkins, P., and Golden, T. (2008). *Lycopene Effects in Tissue Culture Cells.* (abstract 429). Oklahoma Research Day; NSU, Broken Arrow, OK.

Golden, T. (2008). *Examination of the role of Protein Phosphatase 5 (PP5) in cell stress and cancer.* SOSU poster session as part of the Investiture Ceremonies for President Turner on December 2, 2008.

Thomas, S., Shrestha, A., Molina, R., and Golden, T. (2007).*Construction of Expression Plasmids of Protein Phosphatase 5 (PP5) for Use in Studies Examining Cellular Responses to Stress and Tumor Development.* (abstract 06.01.38) Oklahoma Research Day; UCO, Edmond, OK.

Patent:

Animesh Ray and Teresa Golden, "Gene encoding SHORT INTEGUMENTS1 and uses thereof" Issued May 18, 2004, US 6,737,561 B1.

GRANTS and CONTRACTS:

Spring 2019 $1,700
"Analysis of Native American Population's Health Implementation of Preventative Measures."
Southeastern Organized Research Professional Development Grant
Role: co-PI with Dr. Ning Wu

Spring 2018 $1,700
"A study of the effects of Bifidobacterium on the growth of cancer cells."
Southeastern Organized Research Professional Development Grant
Role: co-PI with Dr. Diane Dixon

Fall 2016 $1,700
"Study on the effects of *Bifidobacterium Longum* Metabolites on the growth of cancer cells"
Southeastern Organized Research Professional Development Grant
Role: co-PI with visiting scholar Dr. Shuxing Chen and undergraduate Matt Maxwell

Fall 2015 $1,700
"SKA family gene expression level changes in major depressive disorder cell model"
Southeastern Organized Research Professional Development Grant
Role: co-PI with Dr. Ning Wu

Spring 2015 $1,700
"Genetic analysis of major depressive disorder related expressed genes"
Southeastern Organized Research Professional Development Grant
Role: co-PI with Dr. Ning Wu.

May 1, 2015-August 31, 2015 $2,200
Oklahoma IDeA Network of Biomedical Research Excellence from the National Institute of General Medical Sciences, a component of the National Institutes of Health [NIH] through grant number 5P20GM103447-15.
Role: Mentor

May 1, 2014-August 31, 2014 $2,200
Oklahoma IDeA Network of Biomedical Research Excellence from the National Institute of General Medical Sciences, a component of the National Institutes of Health [NIH] through grant number 5P20GM103447.
Role: Mentor

Spring 2104 $900
"Travel to American Chemical Society Meeting in Dallas 2014"

Southeastern Organized Research Professional Development Grant
Role: PI

May 1, 2013-August 31, 2013 $2,200
Oklahoma IDeA Network of Biomedical Research Excellence from the National Institute of General Medical Sciences, a component of the National Institutes of Health [NIH] through grant number 5P20GM103447. Supported with funds from the Oklahoma State Regents for Higher Education.
Role: Mentor

June 8, 2011 to June 7, 2012 $15,000
Watermelon Uses and Prevention of Skin Damage.
National Watermelon Promotion Board
Role: Co-PI

May 1, 2011-August 31, 2011 $2,200
Oklahoma IDeA Network of Biomedical Research Excellence #5P2PRR016478 from the National Center for Research Resources (NCRR), a component of the National Institutes of Health [NIH].
Role: Mentor

May 1, 2011- March 31, 2012 $25,000
The role of Protein Phosphatase 5 (PP5) in Cancer Cell Survival.
Mini-Grant from the Oklahoma IDeA Network of Biomedical Research Excellence #5P2PRR016478 from the National Center for Research Resources (NCRR), a component of the National Institutes of Health [NIH]. Supported with funds from the Oklahoma State Regents for Higher Education.
Role: Sub-project awardee PI

September 21, 2010 to September 20, 2011 $15,000
Watermelon Uses and Prevention of Skin Damage.
National Watermelon Promotion Board
Role: Co-PI

May 1, 2010-August 31, 2010 $2,200
Oklahoma IDeA Network of Biomedical Research Excellence #5P2PRR016478 from the National Center for Research Resources (NCRR), a component of the National Institutes of Health [NIH].
Role: Mentor

December 1, 2009-May 31, 2010 $5,000
Watermelon Uses and Prevention of Skin Damage (Preliminary).
National Watermelon Promotion Board
Role: Co-PI

May 1, 2009- March 31, 2010 $29,016
The role of Protein Phosphatase 5 (PP5) in hypoxic stress and cancer.
Mini-Grant from the Oklahoma IDeA Network of Biomedical Research Excellence #5P2PRR016478 from the National Center for Research Resources (NCRR), a component of the National Institutes of Health [NIH].
Role: Sub-project awardee PI

May 1, 2007- April 30, 2008 $23,852
The role of Protein Phosphatase 5 (PP5) in cancer
Mini-Grant from the Oklahoma IDeA Network of Biomedical Research Excellence #5P2PRR016478 from the National Center for Research Resources (NCRR), a component of the National Institutes of Health [NIH].
Role: Sub-project awardee PI

Fall 2007 $913.75
Southeastern Organized Research Grant
Role: PI

PROFESSIONAL SERVICE:

Service on Departmental/School/ University Committees:

2017-2018	Outside Member, post-tenure Review committee, for the Dept. of Music.
2016-2017	Outside Department Chair Member, post-tenure Review committee, for the Dept. of Chemistry, Computer & Physical Science.
2015-2016	Outside Member, post-tenure Review committees, for the Dept. of Mathematics and for the Dept. of Occupational Safety and Health
2012-2015	Member, Southeastern Human Subjects Research Review Committee
2012-2014	Member, Southeastern, Institutional Assessment Committee
2012	Outside member, tenure committee, for Dept. of Occupational Safety and Health
2011-2019	Member, Southeastern Academic Council
2011-2014	Participant (Grp5), SE/Harvard Professional Development Program
2011-2012	Chair, Southeastern Graduate Council
2010-2011	Vice-Chair, Southeastern Graduate Council
2009	Chair, Search Committee- Biology Instructor
2009-2010	Chair, Southeastern Graduate Council
2008-2009	Vice-Chair, Southeastern Graduate Council
2008-2019	Member, Southeastern Graduate Council
2006-present	Southeastern Pre-Professional Advisory Committee

Other University Professional Service:

2017	Invited speaker, SE Annual High School Counselor Breakfast
2015-2016	Member, Presidential Advisory committee on Grants.
2016	In collaboration with Dr. Ning Wu arranged travel and escorted 4 undergraduate students (2 pre-medical and 2 nursing students) to China. Students shadowed doctors in hospitals (including Beijing Friendship Hospital) and toured research facilities (Beijing Center for Physical and Chemical Analysis) in Beijing.
2016	Set up a Biology department information table at the, "Meet the Faculty" recruiting event at Grayson College.
2015 (Feb. 26)	Made a presentation at the request of President Burrage to the Leadership Durant organization presenting information about the Biology department and the activity of its faculty and students.
2014	Completed "Civilian Response to Active Shooter Events" course.
2013	Member, interview committee appointed by the Dean of Enrollment Management for new Director of Admissions and Recruitment
2012	Member, advisory committee to the Assistant Dean of Distance and Adult Education regarding lecture capture technology systems.
2012-2019	Camp SE, faculty friend volunteer, make a presentation to students. Presentation to parents (in 2016)
2011	Interim Department Chair (summer) and appointed as full-time Chair starting in the Fall semester, Dept. of Biological Sciences
2011	Completed FEMA training (IS-00700.a; National Incident Management System (NIMS), An Introduction; & IS-00100.HE; Introduction to the Incident Command System; ICS-100 for Higher Education)
2010	Interim Department Chair (summer), Dept. of Biological Sciences
2008-2019	Coordinator, Master of Technology Program, Option Biology
2007-2016	Honor's Day Volunteer; interviewer.
2006-2012	Advisor, Biotechnology Major-Minor, Dept. of Biological Sciences
2006-2019	Advisor, Biology Major-Minor, Dept. of Biological Sciences

Service as a Grant Reviewer:

2012	Served as an external reviewer for the "Faculty On-campus Grant Program" for the University of Central Oklahoma.

Service as a Journal Reviewer:

2010-present	**Serve as a reviewer for the journal: *The American Biology Teacher*. Minimum of one article per year.**
2009-2019	Serve as a reviewer for the *Journal of Biotech Research*. Minimum of one article per every 2 years.

Service as a Textbook Reviewer:

2018 Reviewed Chapter 4: Protein Structure and Function, Smartwork questions. Alberts*, Essential Cell Biology,* Fifth Edition, W.W. Norton, Inc.

2015 Reviewed Chapter 10: DNA Replication, Repair, and Recombination for next edition textbook, *Cell Biology* by Colicelli, et al., Wiley Publishing.

2015 Reviewed the online assessment questions; 23 chapters, 50 questions per chapter for 1st edition, with physiology textbook; *Biology Now*, by Anne Houtman and Megan Scudellari, W.W. Norton & Company.

2013 Reviewed chapters 5 and 6 for core 1st edition textbook, *Biology Now*, by Anne Houtman and Megan Scudellari, W.W. Norton & Company.

2013 Reviewed chapters 1, 4, and 6 for first edition textbook, *Cell Biology* by Colicelli, et al., Wiley Publishing.

2011 Reviewed online tools for textbook, *Biology*, 9/e, by Raven, McGraw-Hill Publishing.

2010 Reviewed chapter 12 for textbook, *Biology*, 9/e, by Raven, McGraw-Hill Publishing.

2009 Reviewed chapter 42 for textbook, *Biology*, 9/e, by Raven, McGraw-Hill Publishing.

2009 Reviewed chapter for textbook, *Genetics: A Human Perspective* by John Jenkins. Elsevier Publishing.

Other Professional Service (As Faculty):

2018 Selected for and attended the Higher Learning Commission Training in the "Standard and Open Pathways". October 4–6, the Q Center in St. Charles, Illinois.
-Qualified as an HLC Peer Reviewer (Peer Corps member).

2017 Departmental Representative to the Oklahoma Course Equivalency meeting, area of Biology.

2017 Participated in the Majors Biology Digital Summit (Pearson), San Francisco, CA.

2016 Participated in the OK-INBRE Workshop: Promoting Undergraduate Research in Oklahoma. OU Research Park, Oklahoma City, OK.

2015 Participated in the Follow-up Retreat/Workshop for the OK-INBRE Program CUR Program on Institutionalizing Undergraduate Research for State Systems and Consortia (OK-INBRE) Oklahoma City, OK. Presented and revised plan with Dr. Paiva, Dr. Smith and Dean Scofous.

2014 Departmental Representative to the Oklahoma Course Equivalency meeting, area of Biology.

2014 Presenter, "Takeaways from the ELA Integrative Learning

Workshop," Southeastern Faculty Symposium, Durant, OK.

2014 Participated in the Educators' Leadership Academy, Remaining True to Your Educator-Self in the 21st Century: Embracing Deep, Intentional, Integrative Learning Workshop, UCO, Edmond, OK.

2014 Attended the 2014 Oklahoma State AAUP Conference, "The Future of College and University Teaching." SE, Durant, OK.

2014 Attended Oklahoma Research Day. UCO, Edmond, OK.

2014 Attended the American Chemical Society National Meeting, Dallas, TX.

2013 Speaker and panel member, Best Practices of Teaching Gen. Ed., Southeastern Faculty Symposium, Durant, OK.

2012 Participated in the Council of Colleges of Arts and Sciences Seminar for Department Chairs/Heads in Alexandria, VA.

2012 Participated in the CUR Workshop Program on Institutionalizing Undergraduate Research for State Systems and Consortia (OK-INBRE) Oklahoma City, OK.

2012 Participated the Academic Chairpersons Conference in Orlando, FL.

2012 Presented a research poster at the American Chemical Society National Meeting, San Diego, CA.

2011-2019 Camp SE volunteer, Faculty Friend

2011 Departmental Representative to the Oklahoma Course Equivalency meeting, area of Nutrition.

2011 Presented a research poster at the American Chemical Society National Meeting, Anaheim, CA.

2010 Participated in the 2010 Oklahoma State Regents for Higher Education Summer Grant Writing Institute

2009 Served on the Oklahoma INBRE Summer Research Scholarship Student Selection Committee at PHF Research Park in Oklahoma City, OK.

2008 Attended the Oklahoma Anthrax Symposium at the Oklahoma Medical Research Foundation (OMRF)

2007 Southeastern Representative to the Oklahoma Bio2010 INBRE Faculty Retreat.

2007 Attended the National Science Foundation Regional Grants Conference in Oklahoma City.

Service to Community:

2020-2021* Authored a Rotary District 5770 Project Grant for the Durant Rotary Club, successfully awarded $4,439 in funds towards establishing a garden for the new city senior center (the Ron Cross Senior Activity Center).

2018-2020* Authored a Rotary District 5770 Project Grant for the Durant Rotary Club, successfully awarded $3,100 in funds towards installing Buddy Benches in the Durant area Elementary and Intermediate schools. Updated this grant and received it again for

	2020 to bring Buddy Benches to other schools in Bryan county.
2018-2020	President of Delta Kappa Gamma, a society of women educators, Beta Iota chapter, Durant, OK.
2017	Participated in the Science Olympiad Training Conference, UCO, OK.
2017-2019	Supervised and judged events for the Science Olympiad on the SE campus.
2017-2019	Presented information about cells, brought slides and microscopes for a hands-on activity to Terri Cloyde's (an SE alumnus) 6th grade students at Plainview Middle School. Also, promoted science as a career and promoted higher education.
2016	Presentation to Durant chapter Rotary International Club titled, "Southeastern Biology Student's Visit to China" regarding trip to China where pre-med and nursing students traveled with Dr. Wu and myself to visit Hospitals and Research Institutes.
2016-present	Treasurer*, Rotary Club of Durant.
2016	Supervised and/or judged two events (Protein Folding Competition and Cell Biology section) for the Science Olympiad presented by Tishomingo HS (science teacher Selena Thomas, SE alumnae) on the SE campus.
2015-2016	President, Rotary Club of Durant.
2014	Taught a class on Cell Biology to Ms. Shelena Thomas's (an SE alumnus) class at Tishomingo High School to assist students in preparing for their Science Olympiad competition.
2013	Presented information about cells, brought slides and microscopes for a hands-on activity to Michael Cloyde's (an SE alumnus) 8th grade physiology students at Silo high school. Also, promoted science as a career and promoted higher education.
2013	Presentation to Durant chapter Rotary International Club titled, "DNA: Can Your Genes Be Used Against You?" regarding Genetic tests and DNA/genome privacy issues.
2012,2014, 2016, 2018	Made presentations at Durant High School Career Day.
2011	Presented information about blood-typing and forensics, brought slides and microscopes for a hands-on activity to Terry Cloyde's 5th grade students at Madill Elementary. Promoted science as a career and promoted higher education.

2008-2010 Supervised Taylor Runyan, a High School student from Atoka, in continuing her research on lycopene originally started with Dr. Penny Perkins-Veazie at the USDA in Lane, OK. I assisted her in planning, obtaining and presenting her data at several science fairs for which she received numerous awards and trips to National Finals. .

2008-2009 Presented information about DNA, brought slides and microscopes for a hands-on activity to Terry Cloyde's 5th grade students at Madill Elementary. Promoted science as a career.