TEXAS STATE VITA

I. Academic/Professional Background

A. Name and Title

Name: Dr. Greg Abel Title: Senior Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	1996	University of Tennessee Knoxville	Microbiology	
BS	1989	Texas A&M University	Microbiology	

C. University Experience

Position	*University*	*Comments*	*Dates*
Senior Lecturer, Biology	Texas State University. San Marcos, TX, United States		September 1, 2014 - Present
Assistant Professor	Huston-Tillotson University		2010 - 2014
Adjunct Professor	Austin Community College		2005 - 2006
Junior Faculty	University of Colorado Health Sciences Center - Denver. Denver, CO		2001 - 2002
Adjunct Faculty, Dept. of Pharmacy	University of Colorado Health Sciences Center		1998 - 2002
Post-doctoral Fellow	University of Colorado Health Sciences Center – Denver		1996 - 2002
Graduate Teaching/Research Assistant	University of Tennessee – Knoxville		1991 - 1996

D. Relevant Professional Experience

Position	*Entity*	*Comments*	*Dates*

Position	*Entity*	*Comments*	*Dates*
Department Head	Research & Development, Source Precision Medicine, Boulder, CO		August 2002 - August 2003

II. TEACHING

A. Teaching Honors and Awards:

Award / Honor Recipient: Named significant contributor to academic success of student, Texas State University.
July 14, 2017

Additional Comments: Ileana Gallegos
June 21, 2017

Additional Comments: Melissa Heath

Award / Honor Recipient: Professor of the Month, SLAC.
April 4, 2017

B. Courses Taught:

Texas State University:

BIO 1331 - ORGANISMAL BIOLOGY

BIO 2440 - PRIN MICROBIOL

Austin Community College:

BITC 1402 - Introduction to Biotechnology

Huston-Tillotson Univeristy:

BIOL 1406 - Introduction to Biology

BIOL 2406 - Environmental Biology

BIOL 2431 - Cell & Molecular Biology

BIOL 3401 - Microbiology

BIOL 3403 - Genetics

BIOL 4101 - Senior Seminar

Univeristy of Colorado Health Sciences Center:

Biochemistry

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Member, Master's Thesis, "Using Scenario Planning to Teach About Antibiotic Resistance Management", Status: In Progress. (March 2020 - Present). Biology, Texas State University.
Student(s): Antonia Mac Crossan, Graduate, Masters.

Faculty Mentor, Internship, "Senior Biology Internship", Status: Completed. (January 19, 2017 - June 1, 2017). Biology, Texas State Univeristy.
Student(s): Callie McSpadden, Undergraduate.

F. Other:

Management / Executive Development, Weekly meetings with Instructional Assistants. San Marcos, TX, United States. 15. (September 2010 - Present).

G. Teaching Professional Development Activities Attended

Workshop, "Large Lecture Pedagogy group," Texas State Biology Dept., San Marcos, TX, United States. (August 2016 - Present).

Workshop, "The use of SquareCap as a large class pedagogy tool," SquareCap, San Marcos, TX, United States. (January 2017).

Workshop, "TopHat as a large class pedagogy tool," TopHat, San Marcos, TX, United States. (November 2016).

Workshop, "Undergrad Large Class Pedagogy and Learning Strategies," Texas State Biology Dept., San Marcos, TX, United States. (November 11, 2016).

III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

b. Textbooks:

Non-refereed:

Abel, M. G. (1996). *Structure/function analysis of the Saccharomyces cerevisiae "alpha"-factor receptor (the STE2 gene product) and its tridecapeptide ligand (the "alpha"-factor pheromone)* (pp. 1–192). The University of Tennessee library archives.

Additional Comments: Dissertation presented for the Doctor of Philosophy degree

2. Articles:

a. Refereed Journal Articles:

Chadli, A., Graham, J. D., Abel, M. G., Jackson, T. A., Gordon, D. F., Wood, W. M., … Toft, D. O. (2006). GCUNC-45 is a novel regulator for the progesterone receptor/hsp90 chaperoning pathway. *Mol Cell Biol*, *26*(5), 1722–30.

Takimoto, G. S., Tung, L., Abdel-Hafiz, H., Abel, M. G., Sartorius, C. A., Richer, J. K., … Horwitz, K. B. (2003). Functional properties of the N-terminal region of progesterone receptors and their mechanistic relationship to structure. *J Steroid Biochem Mol Biol*, *85*(2-5), 209–2019.

Richer, J. K., Jacobsen, B. M., Manning, N. G., Abel, M. G., Wolf, D., & Horwitz, K. B. (2002). Differential Gene Regulation by the Two Progesterone Receptor Isoforms in Human Breast Cancer Cells. *J. Biol. Chem*, *277*(7), 5209–5218.

Tung, L., Shen, T., Abel, M. G., Powell, R., Takimoto, G., Sartorius, C. A., & Horwitz, K. B. (2001). Mapping the Unique Activation Function 3 in the Progesterone B-receptor Upstream Segment. Two LXXLL motifs and a tryptophan residue are required for activity. *J. Biol. Chem*, *276*(43), 39843–39851.

Abel, M. G., Lee, B. K., Naider, F., & Becker, J. M. (1998). Mutations affecting ligand specificity of the G-protein-coupled receptor for the Saccharomyces cerevisiae tridecapeptide pheromone. *Biochim Biophys Acta*, *1448*, 12–26.

Abel, M. G., Zhang, Y. L., Lu H., F., Naider, F., & Becker, J. M. (1998). Structure-function analysis of the Saccharomyces cerevisiae tridecapeptide pheromone using alanine-scanned analogs. *J. Peptide Res*, *52*, 95 – 106.

Levin, Y., Khare, R. K., Abel, M. G., Hill, D., Eriotou-Bargiota, E., Becker, J. M., & Naider, F. (1993). Histidine2 of the "alpha"-factor of S. cerevisiae is not essential for binding to its receptor or for biological activity. *Biochemistry*, *32*, 8199–8206.

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Tung, L., Powell, R., Abel, M. G., Shen, T., Sartorius, C. A., Horwitz, K. B., Keystone Symposia – Nuclear Receptors 2000, "Defining the mechanism of activation function 3 of human progesterone B receptors." (2000).

Graham, D. J., Abel, M. G., Jackson, T. A., Gordon, D. F., Wood, W. M., Horwitz, K. B., Keystone Symposia – Nuclear Receptors 2000; The Endocrine Society – 82nd annual meeting; 11th International Congress of Endocrinology – ICE, "Novel interactors mediating mixed antagonist action on estrogen and progesterone receptors in breast cancer," The Endocrine Society. (2000).

Owen, G. I., Richer, J. K., Abel, M. G., Tung, L., Takimoto, G. S., Horwitz, K. B., Keystone Symposia – Nuclear Receptor Gene Family, "Progesterone regulates transcription of the p21WAF1 cyclin-dependent-kinase inhibitor gene through Sp1 and CBP/p300." (1998).

Takimoto, G. S., Abel, M. G., Jackson, T. A., Sartorius, C. A., Tung, L., Horwitz, K. B., Xth International Congress on Hormonal Steroids, "The role of co-regulators in the transcriptional response elicited by antagonist-occupied steroid receptors." (1998).

Abel, M. G., Lu, H. F., Zhang, L., Naider, F., Becker, J., Yeast Cell Biology, "Towards the elucidation of pheromone binding and signaling of the 'alpha'-factor receptor of S. cerevisiae," Cold Spring Harbor Press, Cold Spring Harbor, NY, United States. (1995).

Abel, M. G., McKinney, A., Naider, F., Becker, J. M., Yeast Cell Biology, "Biological significance of conformational changes in the 'alpha'-factor mating pheromone of S. cerevisiae," Cold Spring Harbor Press, Cold Spring Harbor, NY, United States. (1993).

3. Consultancies:

For Profit Organization, Educational Testing Service, Austin, TX, United States. (2010 - Present).

5. Other Works not in Print:

b. Works "in progress":

Journal Articles:

Graham, D. J., Abel, M. G., Jackson, T. A., Gordon, D. F., Wood, W. M., & Horwitz, K. B. (2002). NCRR: a novel chaperonin protein that interacts and mediates the function of the progesterone receptor when bound with antagonist steroid hormone, RU486. In Preparation; Not Yet Submitted.

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Horwitz, K. B., Abel, Michael Gregory. Tamoxifen resistant breast cancers: Inappropriate transcriptional co-regulators?, United States Army grant, Federal, $317,100.00. (Funded: 1999). Grant.
Additional Comments: over three years

E. Scholarly / Creative Professional Development Activities Attended:

Webinar, "Putting the pieces of biology together through concept mapping," McGraw Hill, San Marcos, TX, United States. (November 2017).

Conference Attendance, "Pacific Biodiversity," Faculty Resource Network, Honolulu, HI, United States. (January 13, 2013 - January 18, 2013).

IV. SERVICE

A. Institutional

1. University:

Member, Institutional Assessment Office. (2010 - 2014).

Member, Research Day Committee. (2010 - 2014).

Member, Research Standards Committee and Institutional Review Board. (2010 - 2014).

Member, University Judiciary Committee. (2010 - 2014).

3. Department/School:

Undergraduate Advisor. (January 2017 - Present).
Additional Comments: Special projects mentor for Callie McSpadden (Texas State senior Microbiology major).

Member, Senior Lecturer Search Committee. (October 2016 - Present).

B. Professional:

Member, State of Texas Assessments of Academic Readiness (STAAR) Biology Content Validation Review Board. (2012 - Present).

C. Community:

Referee, Volleyball Official, Austin, TX. (August 2016 - Present).

Member, Texas Association of Sports Officials, Austin, TX. (2014 - Present).

Safety and feasibility review, Local High Schools, Austin, TX. (2014 - Present).

Additional Comments: Multiple high school students submit requests for review of their independent science class projects. I review for safety and feasibility and make suggestions for improvement and certify proper technique and best practices.

Referee, South Texas Soccer Referee – Grade 7 (U8 boys/girls, U10 boys/girls, U12 boys/girls, U14 boys girls, U16 boys/girls, U18 boys/girls, High school, Adult, Co-Ed, Rec league), TX. (2011 - Present).

Judge, Regional Science Fair Judge (Elementary, Junior High, High School). (2010 - 2016).

Co-Chair, Art Alliance Austin Festival Co-Chair. (2009 - 2015).

Referee, Neighborhood Sports, Inc. football referee (all ages). (2010 - 2012).

D. Organization Memberships:

Union of Concerned Scientists. (2018 - Present).

Texas Association of College Teachers (TACT). (2017 - Present).

Member of the National Science Teachers Association (NSTA). (2003 - Present).

The American Society for Microbiology (ASM). (1992 - Present).

American Association for the Advancement of Science (AAAS). (1990 - Present).