TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Michael Gregory Abel Title: Senior Lecturer

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
Ph.D.	1996	University of Tennessee	Microbiology	Structure/function analysis of the *Saccharomyces cerevisiae* α-factor receptor (the STE2 gene product) and its tridecapeptide ligand (the α-factor pheromone)
B.S.	1989	Texas A&M University	Microbiology	n/a
	1982	Jack C. Hays HS		

C. University Experience

Position	University	Dates
Assistant Professor	Huston-Tillotson University	2010 – 2014
Adjunct Professor	Austin Community College	2005 - 2006
Junior Faculty	University of Colorado Health Sciences Center - Denver	2001 - 2002
Adjunct Faculty	University of Colorado Health Sciences Center – Dept. of Pharmacy	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	Dates

II. TEACHING

A. Teaching Honors and Awards:

Professor of the Month, April 2017 – Texas State SLAC

B. Courses Taught:

Microbiology
Cell & Molecular Biology
Introduction to Biology
Environmental Biology
Genetics
Senior Seminar
Biochemistry
Biotechnology
Organismal Biology

C. Graduate Theses/Dissertations or Exit Committees (if supervisor, please indicate):

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D. Courses Prepared and Curriculum Development:

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E. Funded External Teaching Grants and Contracts:

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F. Submitted, but not Funded, External Teaching Grants and Contracts:

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G. Funded Internal Teaching Grants and Contracts:

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H. Submitted, but not Funded, Internal Teaching Grants and Contracts:

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I. Other:

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III. SCHOLARLY/CREATIVE

A. Works in Print

1. Books (if not refereed, please indicate)

a. Scholarly Monographs:

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b. Textbooks:

- **Abel, Michael Gregory** (**1996**) Structure/function analysis of the *Saccharomyces cerevisiae* α-factor receptor (the *STE2* gene product) and its tridecapeptide ligand (the α-factor pheromone). **Dissertation presented for the Doctor of Philosophy degree**. The University of Tennessee library archives. pp. 1-192.

c. Edited Books:

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d. Chapters in Books:

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e. Creative Books:

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2. Articles

a. Refereed Journal Articles:

- Chadli A, Graham JD, **Abel MG**, Jackson TA, Gordon DF, Wood WM, Felts SJ, Horwitz KB and Toft DO **(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. Greg**, Sartorius, C. A.; Richer, J. K.; Jacobsen, B. M.; Bain, D. L.; and Horwitz, K. B. **(2003)** Functional properties of the N-terminal region of progesterone receptors and their mechanistic relationship to structure. Review. *J Steroid Biochem Mol Biol.* **85**(2-5) : 209-19.
- Graham, D. J.; **Abel, M. Greg;** Jackson, T. A.; Gordon, D. F.; Wood, W. M.; and Horwitz, K. B. (**2003**) NCRR: a novel chaperonin protein that interacts and mediates the function of the progesterone receptor when bound with antagonist steroid hormone, RU486. (Manuscript in preparation).
- Richer, J. K.; Jacobsen, B. M.; Manning, N. G.; **Abel, M. Greg**; Wolf, D.; and 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. Greg**; Powell, R.; Takimoto, G.; Sartorius, C. A.; and 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. Greg**; Zhang, Y. L.; Lu H.-F.; Naider, F.; and Becker, J. M. (**1998**) Structure-function analysis of the *Saccharomyces cerevisiae* tridecapeptide pheromone using alanine-scanned analogs. *J. Peptide Res.* **52** : 95 – 106.
- **Abel, M. Greg**; Lee, B. K.; Naider, F.; and 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.
- Levin, Y.; Khare, R. K.; **Abel, M. Greg**; Hill, D.; Eriotou-Bargiota, E.; Becker, J. M.; and Naider, F. (**1993**) Histidine^2 of the α-factor of *S. cerevisiae* is not essential for binding to its receptor or for biological activity. *Biochemistry* **32** : 8199-8206.

b. Non-refereed Articles:

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3. Abstracts:

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4. Reports:

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5. Book Reviews:

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6. Other:

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B. Works not in Print

1. Papers Presented at Professional Meetings:

- Graham, D. J.; **Abel, M. Greg**; Jackson, T. A.; Gordon, D. F.; Wood, W. M.; and Horwitz, K. B. (**2000**) Novel interactors mediating mixed antagonist action on estrogen and progesterone receptors in breast cancer. Keystone Symposia – Nuclear Receptors 2000; The Endocrine Society – 82nd annual meeting; 11th International Congress of Endocrinology – ICE 2000.
- Tung, L.; Powell, R.; **Abel, M. Greg**; Shen, T.; Sartorius, C. A.; and Horwitz, K. B. (**2000**) Defining the mechanism of activation function 3 of human progesterone B receptors. Keystone Symposia – Nuclear Receptors 2000.
- Owen, G. I.; Richer, J. K.; **Abel, M. Greg**; Tung, L.; Takimoto, G. S.; and Horwitz, K. B. (**1998**) Progesterone regulates transcription of the p21^{WAF1} cyclin-dependent-kinase inhibitor gene through Sp1 and CBP/p300. Keystone Symposia – Nuclear Receptor Gene Family.

- Takimoto, G. S.; **Abel, M. Greg**; Jackson, T. A.; Sartorius, C. A.; Tung, L.; and Horwitz, K. B. (**1998**) The role of co-regulators in the transcriptional response elicited by antagonist-occupied steroid receptors. Xth International Congress on Hormonal Steroids.
- **Abel, M. Greg**; Lu, H.-F.; Zhang, L.; Naider, F.; Becker, J. (**1995**) Towards the elucidation of pheromone binding and signaling of the α-factor receptor of *S. cerevisiae*. Yeast Cell Biology. Cold Spring Harbor Press, Cold Spring Harbor, NY, p. 45.
- **Abel, M. Greg**; McKinney, A.; Naider, F.; and Becker, J. M. (**1993**) Biological significance of conformational changes in the α-factor mating pheromone of *S. cerevisiae*. Yeast Cell Biology. Cold Spring Harbor Press, Cold Spring Harbor, NY, p. 55.

2. Invited Talks, Lectures, Presentations:

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3. Consultancies:

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4. Workshops:

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5. Other:

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C. Grants and Contracts

1. Funded External Grants and Contracts:

- Horwitz, K. B. and **Abel, M. Greg** (**1999**) Tamoxifen resistant breast cancers: Inappropriate transcriptional co-regulators?
United States Army grant No. **DAMD17-99-1-9146**. $317,100.00 over three years.

2. Submitted, but not Funded, External Grants and Contracts:

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3. Funded Internal Grants and Contracts:

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4. Submitted, but not Funded, Internal Grants and Contracts:

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D. Fellowships, Awards, Honors:

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IV. SERVICE

A. University:

Research Standards Committee and Institutional Review Board
University Judiciary Committee
Research Day Committee

B. Departmental:

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C. Community:

Regional Science Fair Judge (Elementary, Junior High, High School)
South Texas Soccer Referee – Grade 8 (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)
Neighborhood Sports, Inc. football referee (all ages)
Art Alliance Austin Festival Co-Chair

D. Professional:

State of Texas Assessments of Academic Readiness (STAAR) Biology Content Validation Review Board

E. Organizations

1. Honorary:

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2. Professional:

The American Society for Microbiology
American Association for the Advancement of Science
Member of the National Science Teachers Association

F. Service Honors and Awards:

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Please note: For all entries, list most recent items first.