TEXAS STATE VITA

I. Academic/Professional Background

A. Name: Joel Bergh Title: Senior Lecturer

B. Educational Background

Degree	Year	University	Major	Thesis/Dissertation
PhD	2003	University of Delaware	Biological Sciences	Osteoblastic voltage-sensitive calcium channels mediate the actions of 1,25-dihydroxyvitamin D3 during bone remodeling.
MBA	2001	University of Delaware	Finance	
BS	1996	University of Houston-Clear Lake	Biology	

C. University Experience

Position	University	Dates
Senior Lecturer	Texas State University	2014-Present
Instructor	St. Edward's University	2010-2014

D. Relevant Professional Experience

Position	Entity	Dates
Assistant Director of Business Development and Finance	Pharmaceutical Research Institute, Albany College of Pharmacy	2006-2007
Postdoctoral Research Fellow	Ordway Research Institute, Albany New York	2004-2006

II. TEACHING

B. Courses Taught:

Texas State University:

Bio 1320 Modern Biology 1	Fall 2014-Present
Bio 1421 Modern Biology 2	Spring 2016-Present
Bio 4350Y Introduction to Laboratory Methods	Fall 2017
Bio 1330 Functional Biology	Spring 2018-Present
Bio 4311/5311 Cancer Biology	Spring 2018-Present
Res 3399 Introduction to Research and Creative Expression	Spring 2023
Coordinator Bio 1420 Labs	Summer 2016
Coordinator Bio 2450 Genetics Lab	Fall 2014- Present

St. Edwards University:

Biol 3324 Human Anatomy and Physiology I and II, Lecture and Lab
Biol 3345 Human Anatomy, Lecture and Lab
Biol 1305 Stem Cell Biology
Biol 1107 Cells, Genetics, and Organ Systems Lab
Biol 1108 Organismal Biology Lab
Biol 3145 Special Topics in Biology – Basic Laboratory Skills
Biol 4435 Cell Biology Lab

D. Courses Prepared and Curriculum Development:

Texas State University:
Bio 4350Y Introduction to Laboratory Methods
Res 3399 Introduction to Research and Creative Expression

St. Edwards University:
Biol 3324 Human Anatomy and Physiology I and II, Lecture and Lab
Biol 3345 Human Anatomy, Lecture and Lab
Biol 1305 Stem Cell Biology
Biol 1107 Cells, Genetics, and Organ Systems Lab
Biol 1108 Organismal Biology Lab
Biol 3145 Special Topics in Biology – Basic Laboratory Skills

E. Teaching Development

Texas State University	
Allies Training Workshop	Spring 2017
SXSW Edu	Spring 2017
Transition from Service to School Workshop	Spring 2017
Multicultural Curriculum Transformation Institute	May 2017

III. SCHOLARLY/CREATIVE

A.Works in Print

1. Books

Essentials of the Living World 7e, By George Johnson and Joel Bergh. McGraw Hill Publishing ISBN13: 9781264156528
The Living World 11e, By George Johnson and Joel Bergh. McGraw Hill Publishing ISBN13: 9781265351069

2. Articles

a. Refereed Journal Articles:

Mousa S.A., Bergh J.J., Dier E., Rebbaa A., O'Connor L.J., Yalcin M., Aljada A., Dyskin E., Davis F.B., Lin H.Y., Davis P.J.. "Tetraiodothyroacetic Acid, a Small Molecule Integrin Ligand, Blocks VEGF and bFGF-Stimulated Angiogenesis." Angiogenesis. 2008;11(2):183-90.

Lin, H-Y., Lansing, L., Merillon J.M., Davis F.B., Tang H.Y., Shih A, Vitrac X, Krisa S, Keating T, Cao H.J., Bergh, J.J., Quackenbush S., and Davis P.J.. "Integrin AphaVBeta3 Contains a Receptor Site for Resveratrol." FASEB J. 2006 Aug;20(10):1742-4.

Bergh, J.J., Shao, Y., Puente, E.C., Duncan, R.L., and Farach-Carson, M.C.. "Osteoblast Ca^{2+} Permeability and Voltage-Sensitive Calcium Channel Expression is Temporally Regulated by 1,25-Dihydroxyvitamin D_3." American Journal of Physiology – Cell Physiology. 2005 Oct 12.

Mousa, S.A., O'Connor, L.J., Bergh, J.J., Davis, F.B., Scanlan, T.S., and Davis, P.J.. "The Proangiogenic Action of Thyroid Hormone Analogue GC-1 Is Initiated at an Integrin." J of Cardiovascular Pharmacology. 2005 Sep;46(3):356-360.

Bergh, J.J., Lansing, L., Lin, H.-Y., Mohamed, S.N., Davis, F.B., Mousa, S.A., and Davis, P.J.. "Integrin αVβ3 Contains a Cell Surface Receptor Site for Thyroid Hormone that is Linked to Activation of MAPK and Induction of Angiogenesis." Endocrinology. 2005 Jul;146(7):2864-71.

Farach-Carson, M.C., Bergh, J.J., and Xu, Y.. "Integrating rapid responses to 1,25-dihydroxyvitamin D_3 with transcriptional changes in osteoblasts:Ca^{2+} regulated pathways to the nucleus." Steroids. 2004 Aug;69(8-9):543-7.

Bergh, J.J., Xu, Y., and Farach-Carson, M.C.. "Osteoprotegerin expression and secretion isregulated by calcium influx through the L-type voltage-sensitive calcium channel." Endocrinology. 2004 Jan;145(1):426-36.

Bergh, J.J., Shao, Y., Akanbi, K.A., and Farach-Carson, M.C.. "Rodent osteoblastic cells express voltage-sensitive calcium channels lacking a gamma subunit." Calcified Tissue International. 2003 Nov;73(5):502-10.

Swann, S.L., Bergh, J.J., Farach-Carson, M.C., Ocasio, C.A., and Koh, J.T.. "Structure-based design of selective agonists for a rickets-associated mutant of the vitamin D receptor." Journal of the American Chemical Society. 2002 Nov 20;124(46):13795-805.

Swann, S.L., Bergh, J.J., Farach-Carson, M.C., and Koh, J.T.. "Rational design of vitamin D_3analogues which selectively restore activity to a vitamin D receptor mutant associated with rickets." Organic Letters. 2002 Oct 31;4(22):3863-6.

Liu, R., Li, W., Karin, N.J., Bergh, J.J., Adler-Storthz, K., and Farach-Carson, M.C.. "Ribozyme ablation demonstrates that the cardiac subtype of the voltage-sensitive calcium channel is the molecular transducer of 1,25-dihydroxyvitamin D_3-stimulated calcium influx in osteoblastic cells." Journal of Biological Chemistry. 2000 Mar 24; 275(12):8711-8.

3. Abstracts:

Endocrine Society – 2005, San Diego, California, poster discussion.
American Thyroid Association – 2004, Vancouver, British Columbia, Canada, poster discussion
Endocrine Society – 2003, Philadelphia, Pennsylvania, poster discussion.
American Society for Bone and Mineral Research – 2002, San Antonio, Texas, poster discussion.
American Society for Bone and Mineral Research – 2001, Phoenix, Arizona, poster discussion.
American Society for Cell Biology – 2000, San Francisco, California, poster discussion.

B. Works not in Print

2. Invited Talks, Lectures, Presentations:

Guest Lecturer – Modern Biology 1 (Bio 1320) February 2017, August 2017
Federation of American Societies for Experimental Biology. – Tucson, Arizona 2006,
"Nongenomic actions of thyroid hormone on angiogenesis and cell migration"

3. Books

The Living World 11e, By George Johnson and Joel Bergh. McGraw Hill Publishing Publish Jan 2023

IV. SERVICE

A. University:

Texas State University

Chair - College of Science and Engineering Safety Committee	Fall 2015-2021
Member - College of Science and Engineering Safety Committee	Fall 2015-2021
Member – Undergraduate Research Fellowship Committee	Fall 2017-Present
Member – University Honor Code Council	Fall 2020-present
Member – University Research Safety Committee	Spring 2020-present
Member – CoSE Dean Search Committee	November 2022-Present

Member - Institutional Review Board, St. Edwards University
Radiation Safety - Ordway Research Institute

B. Departmental:

Texas State University

Member – Lecturer Evaluation Committee	May 2016-Present
Member – Graduate Student Compensation Committee	May 2016-Present
Member – A & P Senior Lecturer Search Committee	December 2016-May 2017

Safety Officer, Biology, University of Delaware

E. Organizations

2. Professional:

American Thyroid Association – Member, 2005 – 2008
Awarded travel grant to 2004 annual meeting in Vancouver, British Columbia, Canada
Endocrine Society – Member, 2004-2008
Sigma Xi – Member, 2012-present
National Association of Biology Teachers – Member – 2016-Present
AAAS – Platinum Member – 2020-present