

J. Kevin Langford, Ph.D.

Department of Biology
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Education:

1987, B.S., Stephen F. Austin State University, Nacogdoches, TX
1989, M.S., Stephen F. Austin State University, Nacogdoches, TX
1995, Ph.D., Medical College of Wisconsin, Milwaukee, WI

Post-Doctoral Training:

1995 - 2002, Post-Doctoral Fellowship, University of Arkansas for Medical Science, Arkansas Cancer Research Center, Little Rock, AR

Positions held:

1985-1986, Undergraduate Teaching Assistant, SFASU
1987 - 1989, Graduate Teaching Assistant, SFASU
1990 - 1995, Research Assistant, MCW
1995 - 2002, Research Associate, UAMS
2002- 2008, Assistant Professor, SFASU
2008-Present, Associate Professor, SFASU

Leadership Positions:

2006-2020, Pre-Health Professions Program Director, SFASU
2020-2023, Interim Chair, Department of Biology
2023-present, Director SFA Rural Health Initiative

Executive Leadership:

Biology Chair Search Committee, Chair (2005-2007)
Faculty Senate Vice Chair (2008-2009)
Faculty Senate Chair (2009-2010)
Texas Association of Advisors of the Health Professions Chair elect (20013-2014)
Texas Association of Advisors of the Health Professions Chair (2014-2015)
Texas Association of Advisors of the Health Professions Immediate Past Chair (2015-2016)
Texas Rural Health Association, Board Secretary (2015-2017)
Texas Rural Health Association, Vice President/President elect (2017-2018)

Executive Board Service:

Executive Committee member (2007-2009, 2011-2012)
Texas Association of Advisors of the Health Professions Board member (2009-2012)
Texas Rural Health Association, Board of Directors (2013-present)
Nacogdoches Rotary club board of directors (2011-2015)

Curricular Service:

Biology 121 Curriculum committee member (2005-2006)

Biology 123 Curriculum committee member (2002-2006)

Assessment Service:

Biology Assessment subcommittee Chair (2014-2016)

Biology Assessment subcommittee member (2016-present)

Core Curriculum Assessment Committee:

 Faculty Senate Representative (2008-2009)

 COSM Representative (2012-2015)

Other Departmental Service:

Tenure Tracking Committee, Chair (2011-2014)

Scholarship Committee (2005 – 2009; 2011 - present)

Biology Webmaster (2003-2011)

Other University Service:

Faculty sponsor of the SFA Cycling Club (2003-2006)

Faculty Senator (2006-2008)

Faculty Senate Chair (2009-2010)

University Athletic Council Member (2008-present)

Grievance Panel/Discrimination Complaint Review Board Member (2012-2015)

Student Conduct Committee (2012-present)

Faculty sponsor of the American Medical Student Association (2006-2020)

Faculty sponsor of the Alpha Epsilon Delta Pre-health Honor Society (2006-2020)

Faculty sponsor of the Pre Dental Student Association (2006-2020)

Faculty sponsor of the Allied Health Student Association (2016-2020)

Other Community and State Service:

Nacogdoches Rotary club member (2003-present)

Nacogdoches Rotary club director of music (2011-present)

American Red Cross Emergency Volunteer (2005-present)

Texas Association of Advisors of the Health Professions member (2006-2020)

Joint Admissions Medical Program, Board of Advisors (2010-2016)

Teaching Awards:

SFASU Foundation Teaching Excellence Award - 2016

Recruitment Awards (Texas):

Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2009, \$10,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2010, \$20,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2011, \$20,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2012, \$20,000
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Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2016, \$20,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2017, \$20,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2018, \$20,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2019, \$18,000
Joint Admissions Medical Program – Special Projects (Summer PreMed Camp) – 2020, \$18,000
(not used due to COVID)

Professional Societies:

American Society for Cell Biology (1993 – present)

American Association of Anatomists – (1995, 2005-present)

National Association of Advisors for the Health Professions (2006 – 2020)

Texas Association of Advisors for the Health Professions. (2006 – 2020)

Texas Academy of Science (2007 – 2020)

Research Awards:

"Extracellular Matrix Modification: A Mechanism for Modulating Cardiac Mesenchymal Cell Migration". American Heart Association Wisconsin affiliate, Predoctoral Fellowship. (1994)

"The Role of Multiple Heparan sulfate chains on syndecan-1".

National Institutes of Health - National Cancer Institute. National Research Service Award 1F32CA71145-01 (1996 - 1999)

Faculty Research Grant, Stephen F. Austin State University, “Identification of syndecan-1 binding proteins that cooperate with syndecan-1 to regulate cell behavior and tumorigenicity.” (\$8500) (9/03 – 8/04)

Faculty Research Grant, Stephen F. Austin State University, “Molecular characterization of the bovine syndecan family of heparan sulfate proteoglycans.” (\$9000) (9/05 – 8/06)

Faculty Research Grant, Stephen F. Austin State University, “Coronary Blood Vessels in Culture.” (\$9500) (2007 - not funded)

Merck/AAAS Undergraduate Science Research Proposal 2007 (not funded)

Publications:

1. **Langford, J.K.**, D.A. Hay, and D.L. Bolender. Fine structural features of coronary vasculogenesis in collagen lattices. *Ann. N.Y. Acad. Sci.* 588:404-408. 1990.
2. Funderburg, F.M., **J.K. Langford**, and G.G. Hiltgen. Chondroitin sulfate proteoglycans: Do they play a role during cardiac morphogenesis? *Progress in Clinical and Biological Research.* 373:227-243. 1991.
3. Dhodopkar, M.V., E. Abe, A. Theus, M. Lacy, **J.K. Langford**, B. Bartologie, and R.D. Sanderson. Syndecan-1 is a multifunctional regulator of myeloma pathobiology: Control of tumor cell survival, growth, and bone cell differentiation. *Blood.* 91:2679-2688. 1998.
4. Liu, Wei, D. Litwack, M.J. Stanley, **J.K. Langford**, A.D. Lander, and R.D. Sanderson. Heparan sulfate proteoglycans as adhesive and anti-invasive molecules: Syndecans and glypican have distinct functions. *J. Biological Chemistry* 273(35): 22825-22832. 1998.
5. **Langford, J.K.**, D. Cao, M.J. Stanley, and R.D. Sanderson. Multiple heparan sulfate chains are required for optimal syndecan-1 function. *J. Biological Chemistry* 273(45):29965-29971. 1998.
6. Iba K, Albrechtsen R, Gilpin B, Frohlich C, Loechel F, Zolkiewska A, Ishiguro K, Kojima T, Liu W, **Langford JK**, Sanderson RD, Brakebusch C, Fassler R, Wewer UM. The cysteine-rich domain of human ADAM 12 supports cell adhesion through syndecans and triggers signaling events that lead to beta1 integrin-dependent cell spreading. *J. Cell Biol.* 149(5):1143-56. 2000.
7. **Langford, J.K.** and R.D. Sanderson. Regulatory roles of syndecans in cell adhesion and invasion. *Methods Mol. Biol.* 171:495-503. 2001.
8. **Langford, J.K.** and Sanderson, R.D. "Measurements of glycosaminoglycan-based cell interactions. *Methods in Cell Biol.* 69:297-308. 2002.
9. Yang Y, Yaccoby S, Liu W, **Langford JK**, Pumphrey CY, Theus A, Epstein J, Sanderson RD. Soluble syndecan-1 promotes growth of myeloma tumors in vivo. *Blood* 2002 Jul 15;100(2):610-7. 2002.
10. Yang, Y, M Borset, **J.K. Langford**, R.D. Sanderson. Heparan sulfate regulates targeting of syndecan-1 to a functional domain on the cell surface. *Journal of Biological Chemistry;* 278(15):12888-12893. 2003
11. **Langford JK**, Yang Y, Kieber-Emmons T, Sanderson RD. Identification of an invasion regulatory domain within the core protein of syndecan-1. *Journal of Biological Chemistry;* 280(5):3467-73. 2005
12. Green, J., R. Crossland & **J. K. Langford**, Epicardial growth *in situ* and in culture. *Texas Journal of Microscopy.* Texas Journal of Microscopy; 38(2):100-105. 2007
13. Crossland, R., J. Green & **J. K. Langford**, Avian proepicardial cells retain vasculogenic potential in culture. *Texas Journal of Microscopy;* 38(2):108-115. 2007

14. Gordon, A. & **J. K. Langford**, Spatial and temporal expression of syndecan-2 (fibroglycan) in chick heart development. *Texas J. of Sci.*; 59(4):277-290. 2007
15. **Langford, J.K.**, “The Everything Guide to Anatomy and Physiology: All You Need to Know about How the Human Body Works”, Adams Media, July 10, 2015
16. **Langford, J.K.**, “Anatomy 101: From Muscles and Bones to Organs and Systems, Your Guide to How the Human Body Works”, Adams Media, July 4, 2015
17. **Langford, J.K.**, “500 Review Questions for the MCAT: Critical Analysis and Reasoning Skills”, McGraw-Hill, June 5, 2015

Abstracts:

1. Fiona M Funderburg, **J. Kevin Langford** and Elizabeth A. Lunow (1993): Expression of chondroitin sulfate type D coincides with cardiac mesenchymal cell migration. *J. Cellular Biochemistry suppl.* 17E:174.
2. **J.K Langford** and F.M. Funderburg (1993): A developmentally expressed, cardiac mesenchyme associated chondroitin sulfate proteoglycan shares properties with PG M. *Molecular Biology of the Cell* 4(suppl.):62a.
3. **J.K. Langford** and F.M. Funderburg (1994): Cardiac mesenchyme derived chondroitin sulfate proteoglycan (CM CSPG) modulates mesenchymal cell migration. *Molecular Biology of the Cell* 5(suppl.):303a.
4. W. Liu, D. Litwack, A.D. Lander, M.H. Stanley, **J.K Langford**, and R.D. Sanderson (1996): Heparan sulfate proteoglycans as anti-invasive molecules: Syndecans and glypican have distinct functions. *Molecular Biology of the Cell* 7(suppl.):237a
5. M. Dhodapkar, A. Theus, **J. Langford**, B. Barlogie, and R. Sanderson (1997): Syndecan-1 is a key multifunctional regulator of myeloma pathobiology. *Blood* 90(suppl.):589a.
6. **J.K. Langford**, D. Cao, M.H. Stanley, and R.D. Sanderson (1997): Multiple heparan sulfate chains are required for optimal syndecan-1 function: *Molecular Biology of the Cell* 8(suppl.):118a
7. Gordon, Ashley, **JK Langford**. Spatial and temporal expression of syndecan-2 during cardiac morphogenesis. (FASEB Meeting, San Francisco, April 2006; Poster presentation).
8. Green, Jessica, Randy Crossland and **JK Langford**. Epicardial formation in situ and in vivo: A Scanning electron microscopic study. (TEM Meeting, Platform presentation, April 2007).

Graduate Courses Taught:

BIOL 5354 (Advanced Developmental Biology) – every year since 2002 (not taught since spring of 2020).

BIOL 5455 (Advanced Animal Histology) – every year since 2006 (except for 2018).

I have served on several thesis committees and been the outside faculty on a number of thesis proposal examinations. I also served on the dissertation committee of Donna Adkins in the department of education as the outside committee member.