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(update annually)

## Vita

# Ni Song

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Division of Academic Studies  
Lamar State College-Orange  
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USA  
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### Education

- Ph.D., Molecular & Developmental Biology, 2007, University of Cincinnati, Cincinnati, OH, USA
- B. S., Biology, 2001, Wuhan University, Wuhan, Hubei, China

### Honors & Awards

- Professional Excellence Award, Lamar State College Orange, 2022
- Distance Education Award, Lamar State College Orange, 2022
- National Institute for Staff and Organizational Development (NISOD) Excellence Award, NISOD, 2019
- Professional Excellence Award, Lamar State College – Orange, 2019
- Texas State University System Chancellor's Fellow, TSUS, 2017
- Texas State University System Course Redesign Mini Grant, TSUS. \$5,000. 2017
- Draw It To Know It Grant, Central Indiana Community Foundation. \$2,400. 2017
- Teaching Excellence Award, Lamar State College – Orange, 2016
- Distance Education Award, Lamar State College – Orange, 2014~2015
- The Award of Superior Teamwork and Dedication, Lamar State College – Orange, 2011

### Association Memberships

- Member of American Society of Microbiology.
- Member of Human Anatomy & Physiology Society.
- Member of Texas Community College Teachers Association (TCCTA).

- Member of the American Society for Biochemistry and Molecular Biology.
- Full member of the Sigma Xi scientific research society.
- Member of the Society for Developmental Biology USA.

### **Professional Experience**

- 2022 -Present: Tenured Professor, Division of Academic Studies
- 2016 – 2022: Tenured Associate Professor, Division of Health Sciences & Workforce Technology, Lamar State College – Orange, Orange
- 2010 – 2016: Tenure-track Assistant Professor, Division of Arts and Sciences, Lamar State College – Orange, Orange
- 2009 – 2010: Postdoctoral research fellow, Department of Genetics, University of Texas M.D. Anderson Cancer Center, Houston, Texas.
- 2001 – 2007: Graduate Research Assistant, Division of Developmental Biology and Department of Ophthalmology, Cincinnati, Children’s Hospital Medical Center.

### **Courses taught**

- BIOL 1322 –Nutrition
- BIOL 2301 -Anatomy & Physiology I lecture
- BIOL 2101 -Anatomy & Physiology I lab
- BIOL 2302 -Anatomy & Physiology II lecture
- BIOL 2102 -Anatomy & Physiology II lab
- BIOL 2420 – Microbiology lecture & lab
  
- BIOL 2420 online Microbiology lecture
- BIOL 2301 online Anatomy & Physiology I lecture
- BIOL 2302 online Anatomy & Physiology II lecture

### **Scholarship/Research**

Molecular mechanism of adult neurogenesis; effects of caffeine on physiology; gene regulation during early eye development in mammals; molecular mechanism of embryonic stem cell self-renewal and pluripotency.

Pedagogical research: Teamwork learning outcome assessment; Active learning techniques; Reading enhancement in college STEM education; Supplement Instruction; Gateway Course Success Strategies.

### **Service**

- Education Instructor Hiring Committee

- LSCO Faculty Senate President
- English Instructor Hiring Committee
- Director of LSCO Supplemental Instruction Program
- Student Success Committee Member
- General Education Assessment Committee Member
- QEP Committee Member
- QEP Implementation Pilot instructor
- Little Cypress-Mauriceville High School STEM Advisory Board Member
- Member of HAPS Educator Committee
- Chair of LSC-O Quality Enhancement Plan Steering Committee
- Chair of LSC-O Quality Enhancement Plan Literature Review Committee
- LSC-O Reaffirmation of Accreditation Committee Member
- LSC-O Faculty Senate committee member
- LSC-O Distance Education Committee Member
- LSC-O Mathematics Assistant Professor Search Committee member
- LSC-O Government Assistant Professor Search Committee member
- Communication Program Review Committee Member
- Sociology Program Review Committee Member
- Textbook review. Human Anatomy and Physiology First Edition by Erin C. Amerman from Pearson, Chapter 24: The Urinary System. March, 2014
- Revising lab manual for BIOL 2101 Anatomy & Physiology I lab

## Publications

- Liu H, Song N. Molecular Mechanism of Adult Neurogenesis and its Association with Human Brain Diseases. (2016) Review. Journal of Central Nervous System Diseases. Jun 20; 8: 5-11.
- Song N, Liu H. Multiple Effects of Caffeine on Physiology. (2015) Editorial. MOJ Cell Science & Report. Volume 2 Issue 4.
- Song N, Lang RA. Eye Development Using Mouse Genetics. (2008) Book Chapter, Animal Models in Eye Research, Pages 120-133, Elsevier Ltd.
- Song N, Schwab KR, Patterson LT, Yamaguchi T, Lin X, Potter SS, and Lang RA. Pygopus2 has a critical, Wnt pathway-independent function in lens induction. (2007) Development 134, 1873-1885.
- Schwab KR, Patterson LT, Hartman HA, Song N, Lang RA, Lin X, and Potter SS. Pygo1 and Pygo2 roles in Wnt signaling in mammalian kidney development. (2007) BMC Biology 5, 15.
- Smith AN, Miller LA, Song N, Taketo MM and Lang RA. The duality of  $\beta$ -catenin function: A requirement in lens morphogenesis and signaling suppression of lens fate. (2005) Developmental Biology 285(2): 477-89.

- Gotoh N, Ito M, Yamamoto S, Yoshino I, Song N, Wang Y, Lax I, Schlessinger J, Shibuya M and Lang RA. Tyrosine phosphorylation sites on FRS2 $\alpha$  responsible for Shp2 recruitment are critical for induction of lens and retina. (2004) Proc Natl Acad Sci U S A (PNAS) 101: 17144-17149.
- Huang SQ, Song N, Wang Q, Tang LL, Wang XF. (2000) Sex Expression and the Evolutionary Advantages of Male Flowers in an Andromonoecious Species, *Sagittaria Guyanensis* Subsp. *guyanensis* subsp. *Lappula* (Alismataceae). *Acta Botanica Sinica*. 42(11): 1108-1114.

## Conferences & Presentations

- Panel Presentation: Texas State University System Chancellor's Fellows Program: Leveraging Faculty Leadership to Increase Student Success. American Association of State Colleges and Universities – Academic Affairs Winter Meeting. Feb 8-10, 2018. San Antonio, Texas.
- Presentation: Supplemental Instruction. 2017 Spring Faculty Professional Development Sessions. Jan 12, 2018. Lamar State College-Orange, Orange, Texas.
- Presentation: Freshman Success Program. Texas State University System Board of Regents Meeting. Nov 16, 2017. Austin, Texas.
- Achieving the Dream 13<sup>th</sup> Annual Conference. Feb 21-24, 2017. San Francisco, California.
- Texas State University System Board of Regents Meeting. Feb 16, 17, 2017. Austin, Texas.
- Poster Presentation. A plan of reading-enhanced Anatomy & Physiology lectures. Human Anatomy & Physiology annual conference, Atlanta, Georgia, May 21, 2016.
- Poster presentation. Promoting and assessing teamwork in Anatomy & Physiology online lectures. Human Anatomy & Physiology annual conference, San Antonio, May 24, 2015.
- Southern Association of Colleges and Schools Commission on Colleges Annual Conference, Dec 7-10, 2013. Atlanta, GA.
- Teaching Professor Conference. May 31-June 2, 2013. New Orleans, LA.
- Texas Community College Teachers Association 2011 Annual Convention. 1/28/2011, San Antonio, Texas.
- Invited talk: Does REST maintain self-renewal and pluripotency of mouse embryonic stem cells? The Mouse Club of Department of Genetics at MD Anderson Cancer Center, 6/29/2010, Houston, TX.
- Poster Presentation: More Dimensions of Embryonic Stem Cell Pluripotency Regulated by REST. Annual Retreat of Department of Genetics at MD Anderson Cancer Center, 3/26/2010, Houston, TX
- Invited talk: Genetic analysis of eye development using mouse models. Huazhong University of Science & Technology, 2009. Wuhan, China.
- Annual Regional Clinical Genetics & Cytogenetics Conference, 2008. Cincinnati, OH, USA.
- Poster Presentation: Pygopus2 has a crucial, Wnt pathway-independent function in lens induction. Society of Developmental Biology Mid-atlantic Regional Meeting, March 30-31, 2007. Princeton, NJ, USA.

- Poster Presentation: Pygopus2 is required for lens induction in mouse. The Great Lakes and Abrahamson Pediatric Eye Institute Vision Research Conference, 2005. Cincinnati, OH, USA.
- Poster Presentation: The role of Pygopus2 in lens induction in mouse. Society of Developmental Biology 64th Meeting, 2005. San Francisco, CA, USA.
- Poster Presentation:  $\beta$ -catenin is a critical mediator of lens morphogenesis and a suppressor of lens cell fate. Gordon Research Conference on Visual System Development, 2004. Bristol, RI, USA.
- Poster Presentation: N-cadherin plays a crucial role in lens induction in mouse. Great Lakes Vision Research Conference, 2003. Oxford, OH, USA.

### **Outreach Activities**

- Served as a Reginal Howell Elementary School Parents and Teachers Association Education Advocacy Committee member, Beaumont, Texas, 2018- current.
- Serving as a member of Little Cypress-Mauriceville High School STEM Advisory Board. 2015 to 2017.
- Served as a judge for the 2013 International Sustainable World (Energy, Engineering, and Environment), Houston, Texas. May 11, 2013.
- Served as a judge for Sigma Xi Student Research Showcase (an online competition for high school students, undergraduate and graduate students) March 18-23, 2013.
- Served as a judge at a local K-12 school Harmony Science Academy science fair. Dec 15, 2012.
- Gave an introductory workshop on Horticulture in a Kids College event at Lamar State College -Orange on Dec 4, 2010.