

Yu (Phoebe) Guo

Birth Date: Jan 21, 1989

E-mail: yuguo.phoebe@gmail.com

Tel: 1-(213)-880-6155

Education

- 08/2014-present University of Southern California**
Keck School of Medicine, USC Norris Cancer center
Degree Program: Ph.D. in Cancer Biology and Genomics
Research Interest: Prostate cancer GWAS SNP functional characterization
Mentor: Dr. Gerhard Coetzee, Dr. Peggy Farnham
- 08/2012-07/2014 University of Southern California**
Keck School of Medicine, Department of Biochemistry and Molecular Biology
Degree Program: Master of Science in Biochemistry and Molecular Biology
Research Interest: Genome-wide transcriptional regulation
Mentor: Dr. Peggy Farnham
- 09/2007-07/2011 Tianjin University of Science and Technology (TUST)**
School of Bioengineering, Department of Pharmaceutical Engineering
Degree Program: Bachelor of Engineering in Pharmaceutical Engineering (Pharmaceutical Design & Synthesis)
Mentor: Dr. Tongcun Zhang, Dr. Xuegang Luo

Professional Skills

- Epigenetic and transcription factor research
- Co-immunoprecipitation (Co-IP), ChIP-seq, RNA-seq, CRISPR/Cas9
- Protein biochemistry and molecular biology research
- Basis SAS, R, python programming, Unix/Linux system operation
- NGS data analysis

Publications

- Jie Gao, Jun-Xun Li, Xue-Gang Luo, **Yu Guo**, Jing Xiao, Tong-Cun Zhang. Functions of *Bacillus Subtilis* BS7.29 in Wasterwater Treatment, ICDMA, 2010:753-756.45.
- Xuegang Luo, Chunling Zhang, **Yu Guo**. Progress in New Anti-tumor Drugs. Proceedings of Second Guangzhou International Cancer Conference, 2011: 133-141.
- Luo XG, Guo S, **Guo Y**, Zhang CL. Histone Modification and Breast Cancer, "Breast Cancer Cells / Book 4", ISBN 979-953-307-183-0, Croatia, Intech publisher, 2011.
- Nan Wang, Ru-Fa Yu, Rui Zhang, Yao Xu, **Yu Guo**, Qing-Xi Liu, Tong-Cun Zhang, Construction and Functional analysis of Luciferase Reporter Plasmids Containing Rat and Mice Insulin Promoters, ICBBE, 2011 .
- Liu, Z., Luo, X., Liu, L., Zhao, W., Guo, S., **Guo, Y.**, ... & Zhang, T. (2013). Histone acetyltransferase p300 promotes MKL1-mediated transactivation of catechol-O-methyltransferase gene. *Acta biochimica et biophysica Sinica*, 45(12), 1002-1010.
- Adam Blattler, Lijing Yao, Heather Witt, **Yu Guo**, Charles M Nicolet, Benjamin P Berman and Peggy J Farnham "Global loss of DNA methylation uncovers intronic enhancers in genes showing expression changes." *Genome biology* 15.9 (2014): 469.

Research Experience

- 08/2014-present** **Ph.D student, USC Norris Cancer Center, University of Southern California, CA, USA**
Mentors: Dr. Gerhard Coetzee and Dr. Peggy Farnham
➤ PhD Studies: Functional Characterization of Prostate Cancer Risk Enhancers
- 01/2013-07/2014** **MS Graduate Student Researcher, Farnham Lab, USC Norris Cancer Center, University of Southern California, CA, USA**
Mentor: Dr. Peggy Farnham
➤ Master Degree Thesis: Relationships between Transcription factor binding and DNA methylation
- 08/2011-06/2012** **Research Assistant, Molecular Pharmacology & Biology Lab, TUST, Tianjin, CN**
Mentors: Dr. Tongcun Zhang and Dr. Xuegang Luo
➤ Effect of ER α on the transcriptional regulation of histone methyltransferase SMYD3 and their roles in estrogen metabolism
➤ Role of the Pancreatic and duodenal homeobox factor-1 (PDX-1) in the differentiation of mesenchymal stem cells
- 02/2009-07/2011** **Undergraduate Researcher, Molecular Pharmacology & Biology Lab, TUST, Tianjin, CN**
Mentors: Dr. Tongcun Zhang and Dr. Xuegang Luo
➤ Bachelor Degree Thesis: Analysis of the transcriptional regulation of CYP1A1 by Histone methyltransferase SMYD3.
➤ The interaction between Myocardin-related transcription factor-A (MRTF-A) and Steroid receptor coactivator-1 (SRC-1) and their roles in drug metabolism.
- 11/2008-01/2009** **Undergraduate Researcher, Biopharmaceutical Lab, TUST, Tianjin, CN**
Mentor: Dr. Min Wang Study Area: Steroid biotransformation
- 09/2008-11/2008** **Undergraduate Researcher, Pharmaceutical Synthesis Lab, TUST, Tianjin, CN**
Mentor: Dr. Yongen Guo Study Area: Chemical synthesis

Professional Development

- 03/2015 Attended: USC Biochemistry Department Annual Retreats, Ventura, CA, US
Poster presentation: Prostate Enhancer Targeting
- 03/2015 Attended: The Future of Genomic Medicine VIII Conference, Scripps, La Jolla, CA, US
- 03/2014 Attended: USC Biochemistry Department Annual Retreats, Lake Arrowhead, CA, US
Poster presentation: Relationships between transcription factor binding and DNA methylation
- 03/2014 Attended: The Future of Genomic Medicine VII Conference, Scripps, La Jolla, CA, US
- 02/2014 Attended: Keystone Symposia: Cancer Epigenetics & Transcriptional Regulation, Santa Fe, NM
Poster presentation: Relationships between transcription factor binding and DNA methylation
- 03/2013 Attended: USC Biochemistry Department Annual Retreat, Lake Arrowhead, CA, US
- 04/2011 Internship at Hualida Biotechnology, Tianjin, CN
- 10/2010 Participated in the "Challenge Cup" Business Plan Competition, Tianjin, CN
- 09/2009 Internship at Novozymes Biotechnology, Tianjin, CN
- 06/2009 Attended: 2009 International Conference of Bio-economy, Tianjin, CN
- 08-09/2008 Internship at Tianyantang Design Company, Xiamen, CN

Honors

- 2009 "Excellent Student" of TUST (Awarded to only one student per department each year)
- 2009 First Class Scholarship of TUST (Awarded to Top 5% students only)
- 2008 Third Class Scholarship of TUST (Awarded to Top 15% students only)
- 2008 "Best Debater" of the Sixth Bilingual Debate Competition of TUST
- 2008 Bronze Medal in the Sixth Bilingual Debate Competition of TUST
- 2007 Bronze Medal in the Fifth Bilingual Debate Competition of TUST

Teaching and Tutoring Experience

- 09-10/2009 Tutoring a 6 person undergraduate debate team
Ranked among top8 in that year's university debate competition
- 2014-2015 Tutored 3 master students on their research, met weekly