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## 教育经历：

- 1998 年-2003 年　中国科学技术大学生命科学学院生物科学理学学士（五年制）
- 2003 年-2009 年　美国犹他大学医学院(University of Utah School of Medicine)分子生物学博士(PhD)；导师：Gerald J. Spangrude 教授
- 2009 年-2014 年　美国约翰霍普金斯大学医学院(Johns Hopkins University School of Medicine)干细胞生物工程博士后；导师：Linzhao Cheng 教授

## 工作经历：

- **博士后研究员(Postdoctoral Fellow)**
  2009 年十月 –2014 年 十二月
  美国马里兰州巴尔的摩市约翰霍普金斯大学医学院血液病学系及细胞工程研究所；导师：程临昭(Dr. Linzhao Cheng);

- **科学家(Scientist I)**
  2015 年一月到 2016 年一月
  美国加州圣地亚哥 Fate Therapeutics, Inc 生物技术公司

- **生物信息学科学家(Bioinformatics Scientist)**
  2016 年二月至今
  美国加州洛杉矶南加州大学预防医学系生物信息学部

## 荣誉和奖励：

- 2010 年-2012 年 Maryland Stem Cell Research Fund （美国马里兰州干细胞研究基金会）**Postdoctoral Fellowship Award （博士后研究奖励）**
- 2011 年 Sanofi-Cell Research Outstanding Paper Award of 2011
- 2012 年 American Society of Hematology （美国血液病学协会）**Abstract Achievement Award （会议摘要成就奖）**

## 科研项目：

- 马里兰州干细胞研究基金会(MSCRF) 2010-MSCRFF-0095-00，2010-12，主持人
- 美国国立健康研究院(NIH) 2R01 HL073781-07A1，2010-14，主要参与人
- 马里兰州干细胞研究基金会(MSCRF) 2011-MSCRFII-0088，2011-14，主要参与人

## 学术期刊上发表的主要论文（第一作者）：

1. Xiaosong Huang, Laurent-Philippe Albou, Tremayne Mushayahama, Anushya Muruganujan, [illegible]. Thomas. (2018) Ancestral Genomes: a resource for reconstructed ancestral genes and genomes across the tree of life. ***Nucleic Acids Research***. **(一区，影响因子11.56)** (Accepted for publication)
2. **Huang X***, Wang Y*, Yan W, Smith C, Ye Z, Wang J, Gao YX, Mendelsohn L, Cheng L. (2015). Production of gene-corrected adult beta globin protein in human erythrocytes differentiated from

patient iPSCs after genome editing of the sickle point mutation. ***Stem Cells***, 33, 1470–1479. doi: 10.1002/stem.1969. **中科院SCI期刊分区医学1区，影响因子5.902，他引65**

3. **Huang X,** Shah S., Wang J., Ye Z., Dowey SN, Tsang K, Mendelsohn L, Kato GJ, Kickler T. and Cheng, L. (2014). Extensive Ex Vivo Expansion of Functional Human Erythroid Precursors Established from Umbilical Cord Blood Cells by Defined Factors. ***Molecular Therapy***; 22 2, 451–463. doi:10.1038/mt.2013.201.（封面文章）**中科院SCI期刊分区医学1区，影响因子 6.938，他引20**
4. Chou BK*, Mali P*, **Huang X***, Ye Z, Dowey SN, Resar LMS, Zou C, Zhang YA, Tong J and Cheng L (2011). Efficient human iPS cell derivation by a non-integrating plasmid from blood cells with unique epigenetic and gene expression signatures**.** ***Cell Research***; 21(3):518-29. **(*Co-First Authors with Equal contributions同等贡献共同第一作者)**. (**Sanofi-Cell Research Outstanding Paper Award of 2011**) **中科院SCI期刊分区生物学1区，影响因子14.812，他引267**
5. **Huang X**, Cho S, Spangrude G (2007). Hematopoietic stem cells: generation and self-renewal. ***Cell Death & Differentiation****;*14(11):1851-9. **中科院SCI期刊分区生物学1区，影响因子8.218，他引106**
6. **Huang X**, Pierce J, Chen G, Chang K, Spangrude G and Prchal J (2010). Erythropoietin Receptor Signaling Regulates Both Erythropoiesis and Megakaryopoiesis in Vivo. ***Blood cells, Molecules and Diseases***; 44(1): 1-6. **中科院SCI期刊分区医学3区，影响因子2.731**
7. **Huang X**, Pierce J, Cobine P, Winge D, Spangrude G (2009). Copper modulates the differentiation of mouse hematopoietic progenitor cells in culture. ***Cell Transplantation****;* 18(8):887-97. **中科院SCI期刊分区医学2区，影响因子3.427**

学术期刊上发表的其他论文（非第一作者）：

1. Mi H, **Huang X**, Muruganujan A, Tang H, Mills C, Kang D, Thomas PD. (2016). PANTHER version 11: expanded annotation data from Gene Ontology and Reactome pathways, and data analysis tool enhancements. ***Nucleic Acids Research***. 45(D1):D183-D189; doi:10.1093/nar/gkw1138. **影响因子9.202**
2. Finn RD, Attwood TK, Babbitt PC, Bateman A, Bork P, Bridge AJ, Chang HY, Dosztányi Z, El-Gebali S, Fraser M, Gough J, Haft D, Holliday GL, Huang H, **Huang X**, Letunic I, Lopez R, Lu S, Marchler-Bauer A, Mi H, Mistry J, Natale DA, Necci M, Nuka G, Orengo CA, Park Y, Pesseat S, Piovesan D, Potter SC, Rawlings ND, Redaschi N, Richardson L, Rivoire C, Sangrador-Vegas A, Sigrist C, Sillitoe I, Smithers B, Squizzato S, Sutton G, Thanki N, Thomas PD, Tosatto SC, Wu CH, Xenarios I, Yeh LS, Young SY, Mitchell AL. (2016). InterPro in 2017-beyond protein family and domain annotations. ***Nucleic Acids Research***. doi: 10.1093/nar/gkw1107. **影响因子9.202**
3. Ye Z, Liu CF, Piterkova L, Dowey SN, He C, **Huang X**, Brodsky RA, Spivak JL, Prchal JT and Cheng L (2014). Differential sensitivity to JAK inhibitory drugs by isogenic human erythroblasts and hematopoietic progenitors generated from patient iPSCs. ***Stem Cells***; 32: 269–278. doi: 10.1002/stem.1545. **影响因子6.523**
4. Shah S, **Huang X,** Cheng L. (2013). Concise Review: Stem Cell-Based Approaches to Red Blood Cell Production for Transfusion. ***Stem Cells Translational Medicine***; 3(3):346-55. doi:10.5966/sctm.2013-0054. **影响因子5.028**
5. Dowey SN, **Huang X**, Chou BK, Ye Z & Cheng L (2012). Generation of integration-free human induced pluripotent stem cells from postnatal blood mononuclear cells by plasmid vector expression. ***Nature Protocols****;* 7, 2013-2021. **影响因子 9.646**

6. Zou J*, Mali P*, **Huang X**, Dowey SN, and Cheng L (2011). Site-specific gene correction of a point mutation in human iPS cells derived from sickle cell disease patient. ***Blood***; 118:4599-4608. **影响因子11.841**

学术会议报告（主报告人）：

1. **X ang**, Weijie Lan, Ramzey Abujarour, Philippe Parone, Raedun Clarke, Megan Robinson, Miguel Meza, Sarah Raynel, Betsy Rezner, Dave Robbins, Tom Tong Lee, Daniel Shoemaker and Bahram Valamehr; Human Induced Pluripotent Stem Cells Incorporating Safe Harbor Loci Integrated Inducible Suicide Systems for Use in the Application of Cellular Therapeutics; ***Blood*** *(ASH Annual Meeting Abstracts),* Nov 2015; 126:3237;
2. **ang**, Ying Wang, Bin-Kuan Chou, Sarah Dowey, Jing Wang, Siddharth Shah, Zhaohui Ye, Linzhao Cheng; Scalable Expansion and Red Blood Cell Production of Human iPS Cells Derived From a Sickle Patient Under Chemically-Defined Condition; *Maryland Stem Cell Research Fund Annual Symposium*, Baltimore, MD, Dec 2013. （获邀口头报告）
3. **ang**, Siddharth Shah, Ying Wang, Sarah N Dowey, Zhaohui Ye, and Linzhao Cheng; Extensive Ex Vivo Expansion of Functional Human Erythroid Precursor Cells From Reprogrammed Post-Natal Blood Mononuclear Cells by Defined Factors. ***Blood*** *(ASH Annual Meeting Abstracts),* Nov 2012; 120: 975.
4. **ang**, Bin-Kuan Chou, Prashant Mali, Zhaohui Ye, Sarah N Dowey, and Linzhao Cheng; Human IPS Cells Generated From Adult Peripheral Blood Cells and Purified CD34+ Cells by a Non-Integrating Plasmid. ***Blood*** *(ASH Annual Meeting Abstracts),* Nov 2010; 116: 1589.