




Li Leijie

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EDUCATION

2011.09-2015.06	Northwest A&F University	Biotechnology (Bachelor)
Bioinformatics, Perl Language, Biostatistics, Genomics and Proteomics, Full Research Training, Genetic Engineering GPA: 84.6/100 (3.22/4.00)		
2015.09-2018.06	Northwest A&F University	Bioinformatics (Master)
Advanced bioinformatics, Modern statistical model and algorithm, Machine Learning, Data Mining, Scientific Paper Writing		
2018.07-now	Shanghai Jiao Tong University	Bioinformatics (Ph.D.)

RESEARCH EXPERIENCE

Bachelor:

- Completed the College Student's Self-deter Independent Experiment: "Milk Capra ETV5 Genes Clone and Primarily Analysis" under the guidance of Dr. Hua Jinlian in College of Animal Medical Northwest A&F University.
- Completed the College Student's Scientific Innovation project: "Functions of Three "core" pluripotency transcription factors in Human Embryonic Stem Cells" under the guidance of Dr. Liao Mingzhi. And the work was assessed as the excellent project by the school authority
- Engaged in Genetic Engineering Project, and learnt the basic experimental principles in molecule lab.

Master:

- Maintaining a Small-Scale Server (system: CentOS 6.5).
- Processing spermatogonia stem cell RNA-seq data for a wet lab student.
- Topological attribute analysis of hub protein in Protein-Protein interaction network (PPIN).
- Identified the targets of the Transcription Factors (OCT4, SOX2 and NANOG) in human stem cells by machining learning algorithm for instance Support Vector Machine (SVM), random forest.
- Using python (3.5) designed and coded a software aiming to identify human cell type and made a simple website, which is not released.

ACTIVITIES

Academic:

- 2014.10 The Second national Developmental biology conference
- 2015.07 The "Dragon Star" Bioinformatics Summer Classes - "The application of Bioinformatics in Precision Cancer Medicine"
- 2015.07 The 12th International Bioinformatics Workshop, IBW2015

Social Service:

- 2012.07 Finished a report of "Cooperative Medical System and Pension in Chinese Rural Area" by surveying the villagers in Hebei province
- 2013.09 Offered help to local elderly people without children
- 2014.03 Volunteered for local government

HONORS AND AWARDS

- 2014.10 Won the first price of academic paper at Northwest A&F University
- 2014.12 Won the first price in the First Poster Design and Display competition at You Ren Academy
- 2015.03 Won the first price in the Third Undergraduate Innovation and Entrepreneurship Forum at Northwest A&F University
- 2015.05 Won the first price in the Tenth Challenge-cup Extracurricular and Academic Contest at Shaanxi province
- 2015.06 Gained the title of “the Excellent Graduation Thesis” at Northwest A&F University
- 2015.06 Gained the title of “the Outstanding Graduates” at College of Life Sciences
- 2011-2014 Won the Professional scholarship three times. (2011-2014)
- 2015.12 Won the Master National Scholarship.

PUBLICATIONS

- Li, Leijie, Liangcai Zhang, Guiyou Liu, Rennan Feng, Yongshuai Jiang, Lei Yang, Shihua Zhang, Mingzhi Liao, and Jinlian Hua. "Synergistic transcriptional and post-transcriptional regulation of ESC characteristics by core pluripotency transcription factors in protein-protein interaction networks." PloS one 9, no. 8 (2014): e105180.
- Li Leijie, Zhaobin Chen, Liangcai Zhang, Guiyou Liu, Jinlian Hua, Lianghai Jia, and Mingzhi Liao. "Genome-wide targets identification of “core” pluripotency transcription factors with integrated features in human embryonic stem cells." Molecular BioSystems 12, no. 4 (2016): 1324-1332.