

Yuchen Tian

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Education

Bachelor of Science 2008-2012

Biochemistry, University of Missouri-Columbia

Relevant Work Experience

Student Research Assistant, University of Missouri Columbia 2009-2012

Lab Technician--2012-Present (Part-Time)

- Basic lab maintenance including order inventory, quote request, buffer preparation, culture medium preparation, autoclave sterilization, etc.
- Extensive cell culture experience: maintenance, passage, cryopreservation of human embryonic stem cells, human and other mammalian induced pluripotent cells
- Immunohistochemistry: monolayer cells, porcine oocytes, cumulus cells
- ELISA, SDS-PAGE, qPCR, Western Blot
- DNA, RNA extraction
- Bacterial culture, plasmid mini, maxi prep
- Protein production, solubilization, and purification
- Reverse transcription and polymerase chain reaction of multiple interferon variants
- Assist and train new undergraduates on basic laboratory procedures
- Independent research project on novel interferon in ruminant reproductive tissues

Publications

- Yuan, Y., Yang, Y., **Tian, Y.**, Park J., Dai A., R. Roberts, R.M., Liu, Y. and Xu Han, X. Efficient long-term cryopreservation of pluripotent stem cells at -80°C . *Sci. Rep.* **6**, 34476; doi: 10.1038/srep34476 (2016).

Assisted Projects/Publications

1. Yabe, S., Alexenko, A.P., Amita, M., Yang, Y., Schust, D.J., Sadovsky, Y., Ezashi, T., and Roberts, R.M. (2016). Comparison of syncytiotrophoblast generated from human embryonic stem cells and from term placentas. *Proceedings of the National Academy of Sciences* 113(19): E2598-E2607.
2. Yang, Y., Adachi, K., Sheridan, M.A., Alexenko, A.P., Schust, D.J., Schulz, L.C., Ezashi, T., and Roberts, R.M. (2015). Heightened potency of human pluripotent stem cell lines created by transient BMP4 exposure. *Proceedings of the National Academy of Sciences* 112(18): E2337-2346.
3. Yuan, Y., Lee, K., Park, K-W., Spate, L.D., Prather, R.S., Wells, K.D., and Roberts, R.M. (2014). Cell cycle synchronization of leukemia inhibitory factor (LIF)-dependent porcine-induced pluripotent stem cells and then generation of cloned embryos. *Cell Cycle* 13(8) : 1265-1276.

Volunteer/Other Experience

Ambassador, Columbia Boone Hospital

Columbia, Missouri---December 2006-2012

- Personally assist patients under the care of the cardiology and neurology units
- Provide patients with company, talk to loved ones, and offer various snacks after prior knowledge of the patient's diet restrictions

**Internship, Beijing Tongren Hospital affiliated to Capital Medical University
Beijing, China—June-August 2010**

- Observed major surgical operations, and understand basic procedures before, during, and after operations
- Shadowed doctors of all departments, and attended seminars from Japan and US
- Visit and interact with patients along doctors and registered nurses daily

2008 Beijing Olympic Game

Beijing, China---August 2008

- Translated for guests at the Beijing subway and directed guests to the correct stations, and within the Olympic venue
- Answered questions for all teams within the Olympic venue including the National Swimming Center ("Water Cube") and the National Indoor Stadium

Honors, Activities

Friends Association of Chinese Students and Scholars: *Committee chair for Fundraising activities 2012*

Cafnr Undergraduate Research Scholarship August 2010-May 2010

Dean's List 2008-2010