JIAYIN LIU

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EDUCATION

Xuzhou Medical University *September 2022 - June 2025*
Master in Clinical Medicine(Academic)
Department of Clinical Medicine
National key laboratory of bone marrow stem cells
Average Score: 90.75/100

Shenzhen University *September 2016 - June 2022*
Bachelor in Medicine
School of Medicine
GPA: 3.43/4

RESEARCH INTEREST

- Pathogenesis of acute myeloid leukemia
- Inhibitor on the biological behaviors of acute myeloid leukemia cells
- MLL fusion proteins and acute myeloid leukemia with MLL gene rearrangement

PUBLICATION

- Feng Li, Yan-Ling Lu, **Jia-Yin Liu (Co First author)**, Man-Man Hu, Yu-Ting Dou, Zeng-Tian Sun, Qi Zhang, Meng-Di Xu, Kai-Lin Xu, Qing-Yun Wu, PHD*. Roles of JAK2 G857N mutations in the pathology of acute myeloid leukemia. International Journal of Biological Macromolecules. (**IF=7.7 Revision**)
- Zi-Yi Lu, Yu-Tong Xue, **Jia-Yin Liu (Co First author)**, Yu-Ting Dou, Man-Man Hu, Zeng-Tian Sun, Qi Zhang, Meng-Di Xu, Feng Li, Kai-Lin Xu, Qing-Yun Wu, PHD*. RFWD2, the novel interaction protein of STAT3 in the leukemiagenesis of AML. cell death & disease (**IF=8.6, Revision**).
- Yu-Tong Xue, Yan-Ling Lu, **Jia-Yin Liu (Co First author)**, Yu-Ting Dou, Man-Man Hu, Zeng-Tian Sun, Qi Zhang, Meng-Di Xu, Feng Li, Kai-Lin Xu, Qing-Yun Wu, PHD*. Effects of the dual JAK2 and AURORA A inhibitor DMZ-3B on the biological behaviors of acute myeloid leukemia cell lines. Cellular Oncology (**IF=5.2, SUBMMITED**).

RESEARCH OR WORK EXPERIENCE

Xuzhou Medical University *September 2022 - Now*

· **Natural Science Foundation Project of Jiangsu Province**

· Read literature to learn about MLL fusion proteins and MLL rearrangement of AML. Currently, it is known that the formation of MLL fusion proteins is the initiating factor of MLL rearrangement of AML,and MLL gene is the regulator of chromatin activity status, so MLL fusion proteins causes chromatin activity disorder, which is the core factor of MLL rearrangement AML.

· **Master's thesis**

· It is known from public databases that CAPN-1 is highly expressed in AML and is associated with poor prognosis.Then chose two cell lines with the highest CAPN-1 protein expression from the nine cell lines.Moreover, the AML cell lines stable overexpression and downregulation of CAPN-1 was obtained via lentivirus mediated transduction, to investigate effects of CAPN-1 on AML biological behavior(cell proliferation,apoptosis,cell cycle,colony formation and so on) and related mechanism.

· **Inhibitors and Combined Use**
· By using Aurora A inhibitor alone or in combination with original chemotherapy drugs, we can explore its mechanism in AML resistance and relapse, which is expected to provide new ideas for the treatment of AML.

AWARD

- Shenzhen University "Top notch Innovative Talents" Scholarship in 2018;2019;2020;2021
- Xuzhou Medical University Academic Scholarship in 2022;2023;2024
- Shenzhen University Summer Social Practice "Outstanding Individual" Title
- Shenzhen University Weekend Social Practice "Outstanding Individual" Title

OTHER SKILLS

- Cell culture (suspension cells and adherent);Cell recovery;Cell cryopreservation;Cell counting;Cell proliferation by cck8 assay
- RNA extraction by Trizol;Reverse transcription;Real-time quantitive PCR
- Construction of lentiviral vector;Lentiviruses package and infect cells
- Western Blot;Agarose gel electrophoresis;**Flow cytometry**;Colony formation experiment
- Construction of mouse leukemia model:mouse tail intravenous injection;mouse intraperitoneal injection;collecting blood from mouse tail vein;mouse anatomical sampling(liver,spleen and bone marrow)
- Proficient in GraphPad