

NYBCe RESEARCHER PROFILE



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Head, Laboratory of Stem Cell Aging and Regeneration

BACKGROUND

Degree Institutions

- Beijing Medical University - MD
- University of Kentucky - PhD (Hematopoiesis)

Postdoctoral Institution

- University of Kentucky

AREAS OF RESEARCH

- Hematopoietic Stem Cell Biology
- Hematopoiesis
- Molecular mechanisms regulating HSC

KEY PUBLICATIONS



CONTACT

To contact the lab, email Dr. Liang at YLiang@nybc.org or the Office of Sponsored Programs at researchadmin@nybc.org.

To learn more about NYBCe patents and licensing, visit our webpage: <https://www.nybce.org/our-research/nybce-technology-discoveries/>.

NYBCe LAB DESCRIPTION

Laboratory of Stem Cell Aging and Regeneration: Cell-intrinsic and niche/system-extrinsic factors coordinate on HSC regulation and maintain hemostatic and malignant hematopoiesis. The lab's research is focused on the molecular mechanisms regulating HSC and immune aging, stress response and transformation. Another research focus is the sex dimorphism in normal and malignant hematopoiesis.

INDUSTRY & ACADEMIC PARTNER COLLABORATIONS

- International Society of Experimental Hematology (ISEH) and American Society of Hematology (ASH): Member

COLLABORATIONS OF INTEREST

- Collaborators interested in hematopoietic stem cell biology, particularly in translational research and/or drug development projects.

ONGOING PROJECTS

- Latexin signaling in hematopoietic regeneration and leukemia development
- Inflammaging in the regulation of HSC and immune function
- Aging niche in clonal evolution of leukemia stem cell and leukemia development
- Sex dimorphism in the regulation of normal and malignant hematopoiesis

A long-term goal is to apply the findings to develop gender specific precision medicine and therapy for aging-related degenerative diseases and hematological malignancies.

