CHINESE-AMERICAN LUNG ASSOCIATION

2020 CALA Happy Friday Seminar

May 22nd, 2020

Join Zoom Meeting: https://zoom.us/join
Meeting ID: 998-9099-1991
Password: 397500
Time: EST 10:30 am; PST: 7:30 am; Beijing time: 10:30 pm

Interaction between alveolar epithelial stem cells and niches during lung repair

Dr. Yuru Liu

Associate Professor

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Type II alveolar epithelial cells are described as facultative stem cells based on their ability to proliferate and differentiate into type I cells. However, the signals sent by surrounding niches that activate the stem cell phenotype of type II cells during alveolar repair remain unclear. Using combinatorial approaches including mouse genetic lineage tracing analysis, tissue specific inducible gene targeting techniques, and 2D and 3D *in vitro* culture, we will demonstrate importance of Notch and YAP pathways regulating cell-cell communication and alveolar repair.

Dr. Liu is an associate professor in Department of Pharmacology, University of Illinois at Chicago. Her research is focused on lung injury and repair, especially alveolar repair mediated by type II cells. Her group have used mouse lung injury models to define sub-population of type II cells for the progenitor cell function.