



CHINESE-**A**MERICAN **L**UNG **A**SSOCIATION



2020 CALA Happy Friday Seminar

July 7th, 2020

Join Zoom Meeting: <https://bit.ly/3e9uN8z>

Time: EST 10:30 am; PST: 7:30 am; Beijing time: 10:30 pm

Stem Cell Approach to small Cell Lung Cancer and COVID-19

ABSTRACT: Current cancer research is hindered by the limitations of existing experimental systems, which fall short in demonstrating concordance with human studies. In this way, we aim to develop models for studying mechanisms that initiate and progress carcinogenesis, focusing initially on Small Cell Lung Cancer (SCLC), the most aggressive type of lung cancer. My currently developed cell culture models based on directed differentiation of human pluripotent stem cells (hPSC) reveal why certain constellations of genetic changes drive carcinogenesis in specialized human cell lineages. These tractable experimental systems enable studying cancer in great depth, using genetically defined human cells that can be characterized at the single cell level. I will also describe our recent work in studying COVID-19 using the cells derived from hPSCs.



Huanhuan Joyce Chen
PharmD. PhD.

Assistant Professor
University of Chicago

Dr. Chen graduated with PhD at Cornell University, and did post-doctoral training with Dr. Harold Varmus at Weill Cornell Medicine. She joins University of Chicago as assistant professor in 2020 as a K99/R00 awardee and has many papers published in Nature Biotech, Nature Med, Cell Stem Cell, JEM and JCI etc.