



**C**HINESE-**A**MERICAN **L**UNG **A**SSOCIATION



# 2020 CALA Happy Friday Seminar

Dec 18<sup>th</sup>, 2020

Join Zoom Meeting:

<https://arizona.zoom.us/j/82407021221> (Password: 654321)

Time: EST 10:30 am; PST: 7:30 am; Beijing time: 11:30 pm

## Type 17 Mucosal Immunity

Dr. Kolls is a pioneer in Type 17 immunity. He has been continuously funded by the NIH for 25 years for work on lung/mucosal immunology. He identified IL-17 and IL-22, cytokines produced by T cells and innate lymphoid cells that are critical to pulmonary host defense to extracellular bacteria and viruses such as influenza and RSV. He showed that the receptors for these cytokines are critical for mucosal immune responses in the lung and gut. He also demonstrated that antigen specific memory Th17 cells can mediate clade specific immunity against Enterobacteriaceae including multi-drug resistant Klebsiella pneumonia. Moreover, he showed that IL-17RA signaling contributes to lung injury induced by H1N1 influenza. His recent focus is on the understanding of mucosal immunity to pathogens including SARS-COV-2



Jay K. Kolls MD

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