



Yogesh Saini

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Time: July 25th, 2017 9:00 – 10:00 AM

Venue: A101 Life Sciences Annex Bldg,

Cystic Fibrosis: Single Gene Defect and a Complex Lung Disease

Cystic fibrosis is a genetic disease that is caused by a mutation in Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) gene. CFTR is a chloride channel that plays a critical role in the maintenance of a specific height of liquid layer on the luminal surface of respiratory tract. CFTR mutation disrupts this function that initiates a cascade of events that leads to a muco-obstructive lung disease. Our research is focused on understanding: how a single gene defect results in a complex lung disease? In particular, we are investigating the early-stage cellular and molecular changes that lead to mucus obstruction and inflammation.