Abstract

My research is focused on airway inflammation and its role in lung tumorigenesis. Cigarette smoking is the principal cause of lung cancer. However, several studies have found that smokers with chronic obstructive pulmonary disease (COPD), an inflammatory disease of the airways and alveoli, have an increased risk of lung cancer compared to smokers with comparable cigarette exposure but without COPD. This suggests a strong link between COPD-related airway inflammation and lung cancer. We have previously shown that COPD-like airway inflammation, but not asthma-like airway inflammation, promotes lung cancer in a genetic mouse model of lung cancer. In my laboratory, we are dissecting the mechanism responsible for this phenomenon with genetic and pharmacologic approaches. These studies have the potential to detect and target important pathways in the lung tumor microenvironment which could have major impacts on prevention and treatment of lung cancer by providing baselines for future rationally directed targeted therapy in patients at high risk for lung cancer development, and also patients with lung tumors.

Bio

Dr. Seyed Javad (Peyman) Moghaddam is currently an Assistant Professor at the Department of Pulmonary Medicine, UT MD Anderson Cancer Center, Houston, Texas, USA. He received his doctorate in Medicine (MD) from Shaheed Beheshti University of Medical Sciences, Tehran, Iran in September 1996. He joined Baylor College of Medicine (Houston, TX, USA) in March 2004 for a NIH T32 fellowship program in lung diseases. Later in May 2007, he accepted an Instructor position in the Department of Pulmonary Medicine, UT MD Anderson Cancer Center where he then was promoted to a non-tenure track Assistant Professor position on June 2009 which was switched to a tenure track position in 2012. He is also a faculty member for Immunology, and Clinical & Translational Science programs at UT graduate school of biomedical sciences (GSBS-Houston, TX), as well as training program in Gene-Environment Interaction (Brown Foundation Institute of Molecular Medicine for the Prevention of...
Human Diseases), Center for Inflammation and Cancer (MD Anderson Cancer Center), and CCSG Lung Cancer program (MD Anderson Cancer Center). He is also an Adjunct Professor at Tecnologico de Monterrey School of Medicine (Monterrey, Mexico). He is a reviewer for multiple peer reviewed journals including Cancer Research, Carcinogenesis, and Molecular Cancer. He also serves as a grant reviewer on study section for American Lung association, Assembly on Thoracic Oncology Programing Committee (American Thoracic Society), James and Esther King Biomedical Research Program (State of Florida Department of Health), Multidisciplinary Research Advisory Committee (MD Anderson Cancer Center), and the advisory board for the Center for Clinical and Translational Sciences TL1 Program (UT –GSBS). He has received numerous honors and awards, including Bristol-Meyers Squibb Award in Clinical/Translational Research, Lung Cancer Discovery Award (American Lung Association), Research Scholar Award (American Cancer Society), and Cyrus Scholar Award in Basic/Translational Research (Cyrus Family Foundation). His research is focused on airway inflammation and its role in lung tumorigenesis. In his laboratory, they are currently dissecting the mechanism responsible for this phenomenon with genetic and pharmacologic approaches. He has actively published, been well-funded, and trained several postdoctoral fellows, medical students, as well as undergrad, and graduate students in this field.

For more information, visit http://engineering.utsa.edu/~lideduan/seminar.html
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