

# Reen Wu, Ph.D.

<b>Clinical Interests</b>	Dr. Wu has used human lung cells and tissues as well as animal models to study the molecular mechanisms of various lung diseases in asthma, chronic obstructive pulmonary disease (COPD), cardiac fibrillation (CF), airway inflammation and infection, smoking, and inhalation toxicology. His focus is on the role of airway epithelial cells in the development of these diseases and the injury/repair response. Dr. Wu also is interested in the cell signaling, innate immunity and regulation of gene expression in airway epithelial cells. Recently, he has developed the application of stem cells for airway regenerative medicine.
<b>Title</b>	Professor
<b>Specialty</b>	<a href="#">Cell Biology and Human Anatomy</a> , Internal Medicine, Pulmonary and Critical Care
<b>Department</b>	Internal Medicine
<b>Division</b>	Pulmonary and Critical Care Medicine
<b>Languages</b>	Chinese (Mandarin)
<b>Education</b>	Ph.D., University of Arkansas School of Medicine, Little Rock, Arkansas, 1972 B.S., National Taiwan University, Taipei, Taiwan, 1965 M.S., National Taiwan University School of Medicine, Taipei, Taiwan, 1968
<b>Fellowships</b>	UC San Diego, San Diego, California, 1974
<b>Professional Memberships</b>	American Association for the Advancement of Sciences American Society for Biochemistry and Molecular Biology American Thoracic Society
<b>Honors and Awards</b>	Pfizer Award for Research Excellence, Veterinary Medicine, UC Davis, 2006 Faculty Research Award, UC Davis School of Medicine, 1996 National Institutes of Health Merit Award, R37 HL35635, 1995 Joan Oettinger Memorial Award, UC Davis School of Medicine, 1993
<b>Select Recent Publications</b>	Chen Y, Hamati E, Lee WM, Wachi S, Schnurr D, Shigeo Y, Dolganov G, Boushey H, and Wu R. Rhinovirus induces airway epithelial gene expression through double-stranded RNA and IFN-dependent pathways. <i>Am J Respir Cell Mol Biol</i> , 34:192-203. Harper RW, Xu C, Eiserich JP, Kao CY, Thai P, Setiadi H, and Wu R. Differential regulation of dual NADPH oxidase/peroxidase, Duox 1 and Duox 2, by Th1 and Th2 cytokines in respiratory tract

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Kao CY, Chen Y, Thai P, Wachi S, Huang F, Kim C, Harper RW, and Wu R. Interleukin-17 markedly up-regulates b-defensin 2 expression in human airway epithelium via JAK and NF-kB pathways. J Immunol, 173:3482-3491.

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Di YP, Zhao YH, Harper R, and Wu R. Molecular cloning, and characterization of a human novel gene that is retinoic acid-inducible and encodes a secretory protein specific in upper respiratory tracts, SPURT. J Biol Chem, 278:1165-1173.

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Chen Y, Thai P, Zhao YH, Ho YS, DeSouza MM, and Wu R. Stimulation of airway mucin gene expression by IL-17 through IL-6 paracrine/autocrine loop. J Biol Chem, 278:17036-17043.

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