Cigarette Smoke Impairs $A_{2A}$ Adenosine Receptor Mediated Wound Repair through Up-regulation of Duox-1 Expression

Zhi Tian\textsuperscript{1}, Hui Zhang\textsuperscript{2}, Jendayi Dixon\textsuperscript{1}, Nicole Traphagen\textsuperscript{1}, Todd A. Wyatt\textsuperscript{2,3,4}, Kusum Kharbanda\textsuperscript{4,5}, Samantha Simet Chadwick\textsuperscript{2}, Narasaiah Kolliputi\textsuperscript{6}, Diane S. Allen-Gipson\textsuperscript{1,2,6*}

\textsuperscript{1} Department of Pharmaceutical Sciences, College of Pharmacy, University of South Florida, Tampa FL; \textsuperscript{2} Division of Pulmonary, Critical Care, Sleep and Allergy, Department of Internal Medicine, University of Nebraska Medical Center, Omaha, NE; \textsuperscript{3} Department of Environmental, Agricultural, and Occupational Health, College of Public Health, University of Nebraska Medical Center, Omaha, NE; \textsuperscript{4} Research Service, Omaha-Western Iowa Veterans Affairs Medical Center, Omaha, NE; \textsuperscript{5} Division of Gastroenterology and Hepatology, Department of Internal Medicine, University of Nebraska Medical Center, NE; \textsuperscript{6} Division of Allergy and Immunology, Department of Internal Medicine, College of Medicine, University of South Florida, Tampa FL.

Running head: Cigarette smoke generated hydrogen peroxide mediates Duox-1 up-regulation

*Address Correspondence to:

Diane S. Allen-Gipson. Ph.D.
Department of Pharmaceutical Sciences
College of Pharmacy
University of South Florida Health
12901 Bruce B. Downs Blvd, MDC 30
Tampa, Florida, 33612
Tel: 813-974-7225
Fax: 813-905-9885
Email: dallengi@health.usf.edu
Suppl. 1. Transcript levels of A₁AR, A₂₅AR, A₂₆AR, and A₃AR in normal Nuli-1 cells.
Suppl. 2. Effect of CGS21680 on transcriptional levels of A₁AR, A₂AAR, A₂BAR, and A₃AR. Expression levels of mRNA in Nuli-1 cells treated with CGS21680 for 24 h., * indicates significance value: P<0.05.