

Soluble Wood Smoke Extract Promotes Barrier Dysfunction in Alveolar Epithelial Cells through a MAPK Signaling Pathway

Matthew R. Zeglinski^{1,2,3,4}, Christopher T. Turner^{1,2,3,4}, Rui Zeng⁶, Carley Schwartz^{3,5}, Stephanie Santacruz^{1,2,3,4}, Megan A. Pawluk¹, Hongyan Zhao^{1,2,3,4}, Arthur W. H. Chan⁶, Christopher Carlsten^{3,5}, David J. Granville^{1,2,3,4*}

¹International Collaboration on Repair Discoveries (ICORD), Vancouver Coastal Health Research Institute, University of British Columbia (UBC), Vancouver, BC, Canada

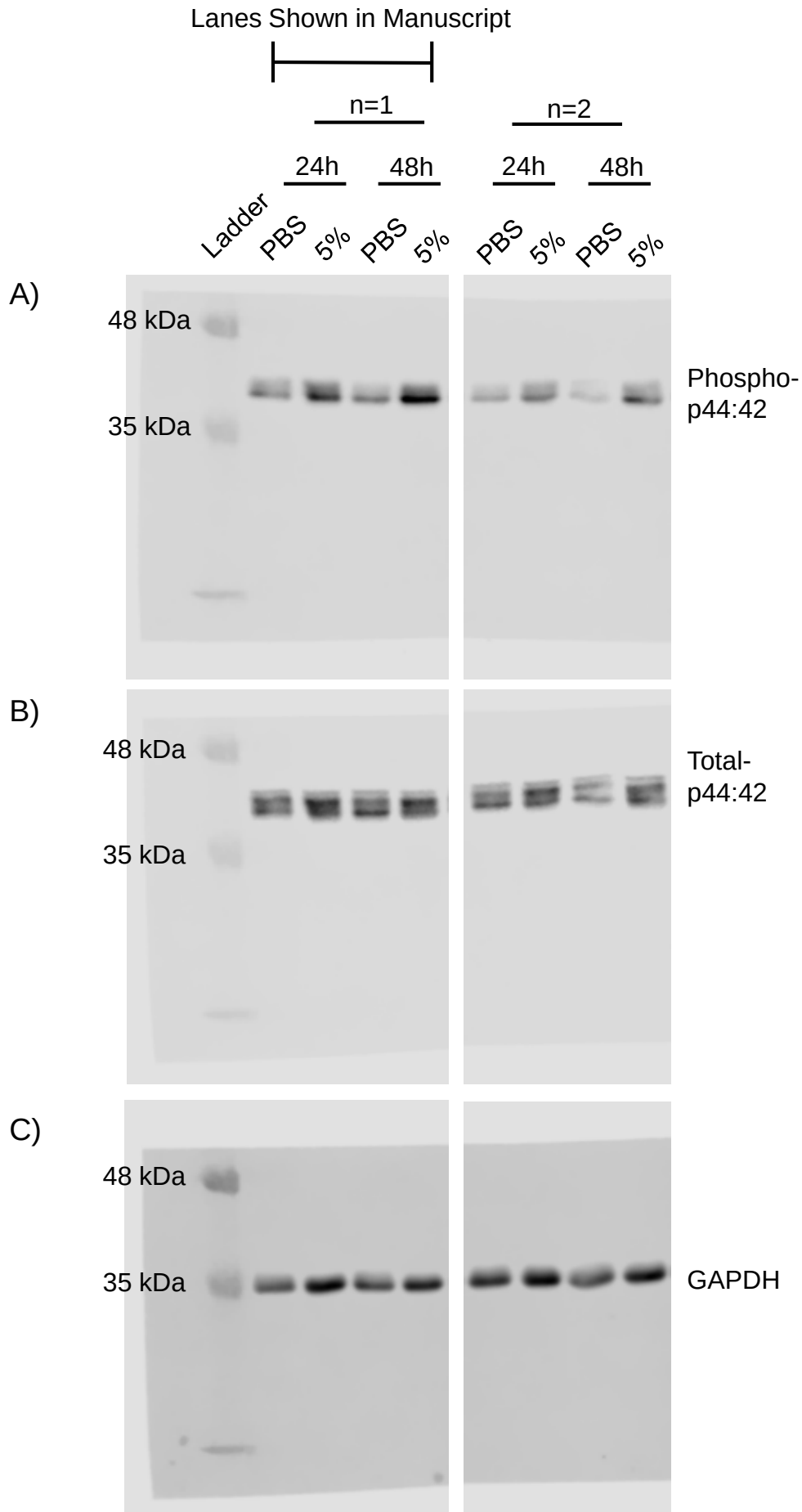
²Department of Pathology and Laboratory Medicine, University of British Columbia, Vancouver, BC, Canada

³UBC Centre for Heart Lung Innovation, St. Paul's Hospital, UBC, Vancouver, BC, Canada

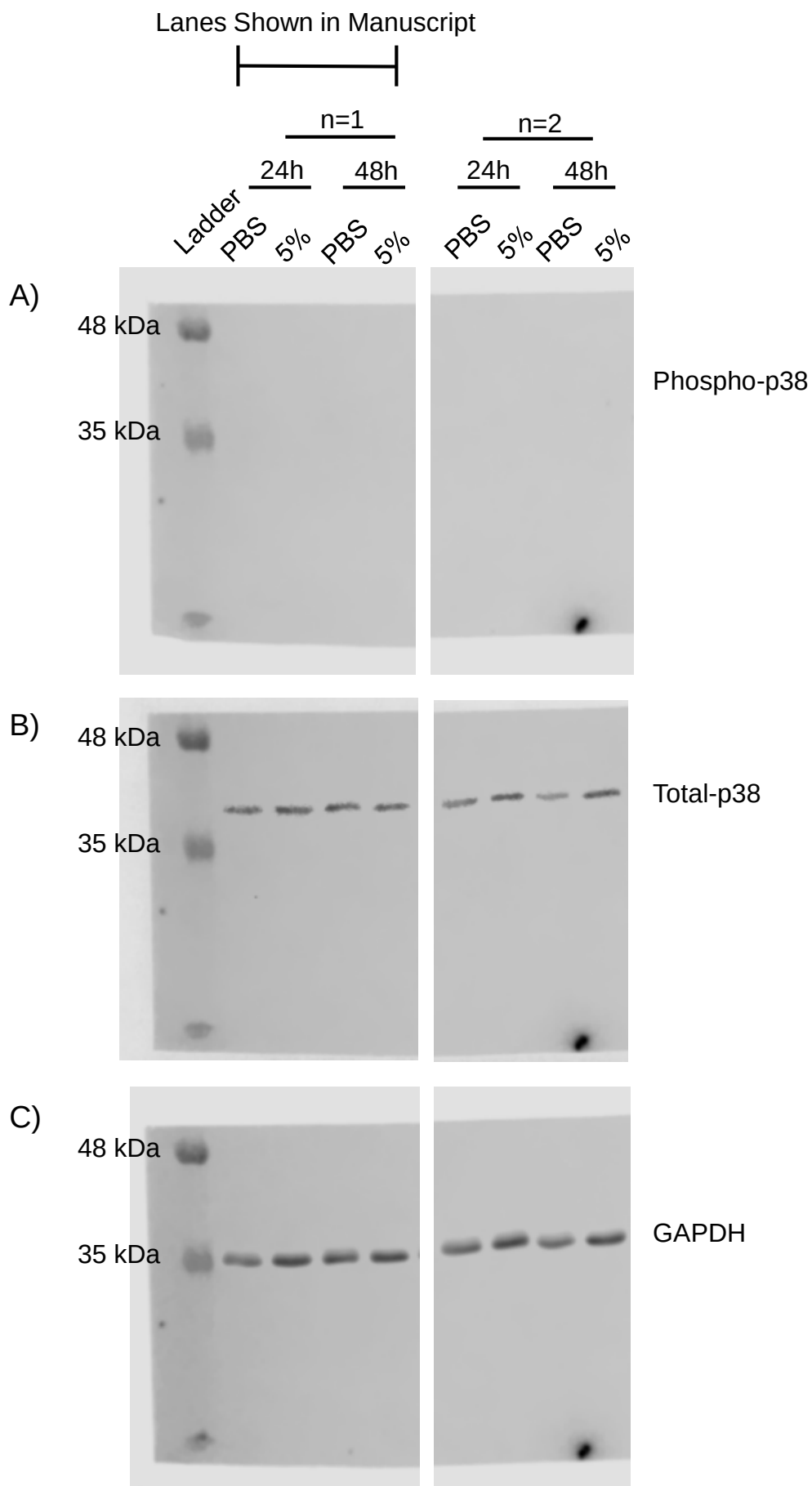
⁴British Columbia Professional Firefighters' Burn and Wound Healing Group, Vancouver, BC, Canada

⁵Department of Medicine, Division of Respiratory Medicine, Chan-Yeung Centre for Occupational and Environmental Respiratory Disease, Vancouver Coastal Health Research Institute, University of British Columbia, Vancouver, BC, Canada

⁶Department of Chemical Engineering & Applied Chemistry, University of Toronto, Canada.



Supplementary Figure S1.



Supplementary Figure S2.

Lanes Shown in Manuscript

Ladder BSA EGF

A)

245 kDa
180 kDa
135 kDa
100 kDa

63 kDa

48 kDa

35 kDa

25 kDa

Phospho-p38

B)

245 kDa
180 kDa
135 kDa
100 kDa

63 kDa

48 kDa

35 kDa

25 kDa

Total-p38

C)

245 kDa
180 kDa
135 kDa
100 kDa

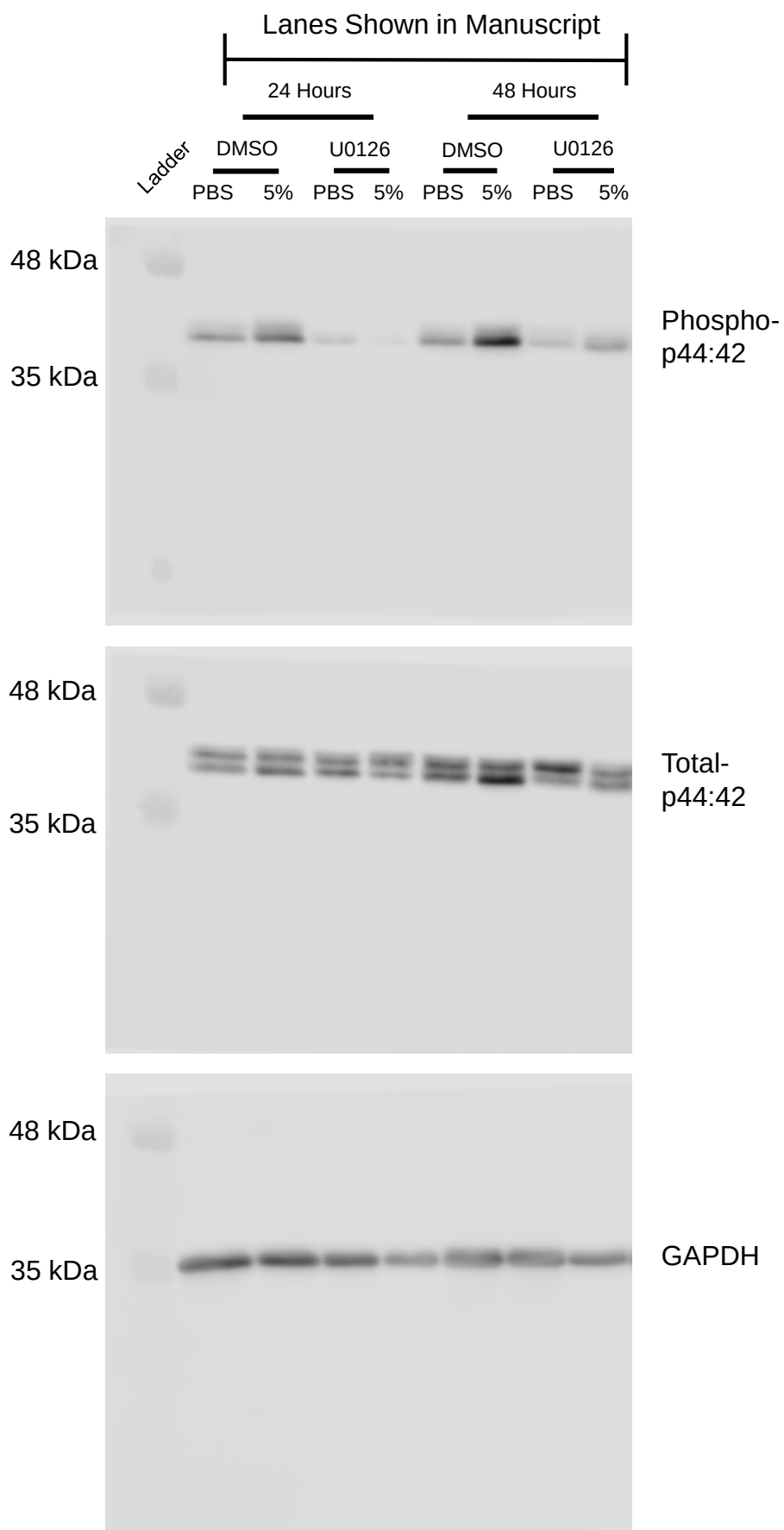
63 kDa

48 kDa

35 kDa

25 kDa

GAPDH



Supplementary Figure S4.