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## Editorial Board

**Charles A Downs**

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## Biography

- Dr. Downs is a nurse with extensive clinical experience in pulmonary and critical care medicine. He received his PhD from The University of Arizona where he studied the effects of cigarette smoke on alveolar epithelial type 1 cells and microvascular endothelial cells using a variety of cell culture models. He is currently a postdoctoral fellow at Emory University in the departments of pediatrics and physiology where he is continuing to investigate the physiological and toxicological effects of cigarette smoke exposure on the lung.



# Air & Water Borne Diseases

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- Downs research interest include elucidating the mechanisms through which inhaled toxicants, such as cigarette smoke, result in injury and disease. He is interested in sodium channel responses to toxicants in the alveolar epithelium, oxidative stress and oxidant signaling and cross-talk between the alveolar epithelium and microvascular endothelium.



## **Publications**

**Acute effects of cigarette smoke extract on alveolar epithelial sodium channel activity and lung fluid clearance.**

Downs CA, Kreiner LH, Trac DQ, Helms MN.

**Ethanol alters alveolar fluid balance via Nadph oxidase (NOX) signaling to epithelial sodium channels (ENaC) in the lung.**

Downs CA, Trac DQ, Kreiner LH, Eaton AF, Johnson NM, Brown LA, Helms MN.

**H<sub>2</sub>O<sub>2</sub> regulates lung epithelial sodium channel (ENaC) via ubiquitin-like protein Nedd8.**

Downs CA, Kumar A, Kreiner LH, Johnson NM, Helms MN.

**β-Adrenergic agonists differentially regulate highly selective and nonselective epithelial sodium channels to promote alveolar fluid clearance in vivo.**

Downs CA, Kreiner LH, Yu L, Eaton DC, Jain L, Helms MN.



**Age-related differences in cigarette smoke extract-induced H<sub>2</sub>O<sub>2</sub> production by lung endothelial cells.**

Downs CA, Montgomery DW, Merkle CJ.

**Toxic stress, inflammation and symptomatology of chronic complications in diabetes.**

Downs CA, Faulkner MS.



## **Formaldehyde exposure during pregnancy.**

Amiri A1, Pryor E, Rice M, Downs CA, Turner-Henson A, Fanucchi MV.

**Oxidized glutathione (GSSG) inhibits epithelial sodium channel activity in primary alveolar epithelial cells.**

Downs CA, Kreiner L, Zhao XM, Trac P, Johnson NM, Hansen JM, Brown LA, Helms MN.



**Preclinical anatomical, molecular, and functional imaging of the lung with multiple modalities.**

Gammon ST, Foje N, Brewer EM, Owers E, Downs CA, Budde MD, Leevy WM, Helms MN.

# Journal of Air & Water Borne Diseases Related Journals

- Journal of Bacteriology & Parasitology
- Journal of Medical Microbiology & Diagnosis
- Journal of Microbial & Biochemical Technology
- Journal of Plant Pathology & Microbiology
- Journal of Vaccines & Vaccination



# Journal of Air & Water Borne Diseases Related Conferences

- Allergy Conference
- 4th Bacteriology and Infectious Diseases Conference
- 2nd Infectious Diseases Congress



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