



- *Professor*
  - *Department of Medicine*
  - *Division of Pulmonary, Critical Care & Sleep Medicine*
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#### Conditions Treated:

- *Emphysema*
- *Chronic Cough*

#### Programs & Services:

- *COPD Program*
- *Department of Medicine*
- *Division of Pulmonary, Critical Care and Sleep Medicine (Adult)*

#### Research Interests

From 1972 to the present research efforts have focused on mechanisms of oxidative injury and the role of antioxidants in blocking both normal and abnormal oxidative stress. A major emphasis has been on the role of extracellular superoxide dismutase as a regulator of inflammation and of intercellular signal transduction. This laboratory is developing small molecular weight catalytic antioxidants that can be used as drugs and as molecular probes to determine the role of free radicals in normal biology and in disease processes such as radiation-induced injury, stroke, diabetes, chronic lung disease and cancer.

In 2007, the COPDGene project was launched with Dr. Crapo and Dr. Ed Silverman as principal investigators. COPDGene is an NHLBI funded multi-institutional genetic epidemiology study which will carry out a genome-wide analysis of 10,500 subjects at risk for or with COPD to identify the primary genes that determine risk for developing COPD.

#### Board Certification

American Board of Internal Medicine  
American Board of Pulmonary Diseases

#### Education

1967 Brigham Young University, BS  
1971 University of Rochester (New York), MD

#### Residency

1971 - 1972 Harbor General Hospital, Torrance, CA, Internship  
1975 - 1976 Duke University,

#### Fellowship

1972 - National Institute of Environmental Health Sciences, Research Triangle Park, NC,  
1975 Staff Associate

1975 - Duke University, Pulmonary Medicine  
1977

### **Teaching or Professional Positions**

1996- present: Professor of Medicine, National Jewish Health, and University of Colorado Denver

1996- 2008: Director, Clinical Science Graduate Program, University of Colorado Denver

1996-2004: Associate Dean, School of Medicine, University of Colorado Denver

1996-2004: Executive Vice President of Academic Affairs, National Jewish Health

1996-2004: Chair, Department of Medicine, National Jewish Health

1979-1996: Chief, Division of Allergy, Critical Care and Respiratory Medicine, Duke University, Durham, NC

### **Affiliations with the University of Colorado Denver**

Professor of Medicine, University of Colorado Denver

### **Professional Memberships**

American Thoracic Society  
American Physiological Society  
American Society for Clinical Investigation  
American College of Physicians  
Fleischner Society  
Association of American Physicians  
American College of Chest Physicians  
The Oxygen Society

### **Awards & Recognition**

2003-Present: Editor, Journal of Chronic Obstructive Pulmonary Disease

1999: Presidential Citation, American Thoracic Society

### **Publications**

Regan EA, RP Bowler and JD Crapo. Joint fluid antioxidants are decreased in osteoarthritic joints compared to joints with macroscopically intact cartilage and subacute injury. *Osteoarthritis Cartilage* 16:515-521, 2008.

Petersen SV, T Kristensen, JS Petersen, L Ramsgaard, TD Oury, JD Crapo, NC Nielsen and JJ Enghild. The folding of human active and inactive extracellular superoxide dismutases is an extracellular event. *J Biol Chem* 283:15031-15036, 2008.

Gridley DS, AY Makinde, X Luo, A Rizvi, JD Crapo, MW Dewhirst, BJ Moeller, RD Pearlstein and JM Slater. Radiation and a metalloporphyrin radioprotectant in a mouse prostate tumor model. *Anticancer Research* 27:3101-3110, 2007.

Kinnula VL and JD Crapo. Superoxide dismutases in malignant cells and human tumors. *Free Radic Biol Med* 36:718-744, 2004.

Kinnula VL and JD Crapo. Superoxide dismutases in the lung and human diseases. *Am J Respir Crit Care Med* 167:1600-1619, 2003.

### **Doctor's Contact Information**

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## Locations

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1400 Jackson St.

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