



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

- *Chronic Cough*

Research Areas:

- *Cellular and Molecular Biology*

Programs & Services:

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

Research Interests

The glucocorticoid receptor is one of the most important therapeutic targets for the treatment of inflammatory disorders of the lung such as asthma. My laboratory investigates two aspects of glucocorticoid receptor signaling. First, we are studying the basic molecular mechanisms whereby glucocorticoids repress the expression of inflammatory genes in the airway. Second, we are investigating how various non-inflammatory genes that are regulated by glucocorticoids alter lung function. By defining new mechanisms of glucocorticoid action we ultimately seek to discover new targets for asthma therapeutics.

Board Certification

Internal Medicine
Pulmonary Disease

Education

1990 Massachusetts Institute of Technology, BS, Mathematics
1998 University of Washington, MD, PhD

Residency

1998 - 2000 University of California, San Francisco, Internal Medicine

Fellowship

2001 - 2004 University of California, San Francisco, Pulmonary and Critical Care

Affiliations with the University of Colorado Denver

Associate Professor of Medicine, University of Colorado Denver
Graduate Faculty, Department of Pharmacology, University of Colorado Denver

Professional Memberships

American Thoracic Society
American Physiological Society
American Lung Association of Colorado

Publications

Sasse SK, **Gerber AN**. Feed-forward transcriptional programming by nuclear receptors: regulatory principles and therapeutic implications. *Pharmacol Ther*. 2015 Jan;145:85-91. Epub 2014 Feb 5.

Sasse SK, Zuo Z, Kadiyala V, Zhang L, Pufall MA, Jain MK, Phang TL, Stormo GD, **Gerber AN**. Response Element Composition Governs correlations between Binding Site Affinity and Transcription in Glucocorticoid Receptor Feed-forward Loops. *J Biol Chem*. 2015 Aug 7;290(32):19756-69. Epub 2015 Jun 18.

Gerber AN. Glucocorticoids and the Lung. *Adv Exp Med Biol*. 2015;872:279-98.

Morrison-Nozik A, Anand P, Zhu H, Duan Q, Sabeh M, Prosdocimo DA, Lemieux ME, Nordsborg N, Russell AP, MacRae CA, **Gerber AN**, Jain MK, Haldar SM. Glucocorticoids enhance muscle endurance and ameliorate Duchenne muscular dystrophy through a defined metabolic program. *Proc Natl Acad Sci USA*. 2015 Dec 8;112(49):E6780-9. Epub 2105 Nov 23.

Kadiyala V, Sasse SK, Altonsy MO, Berman R, Chu HW, Phang TL, **Gerber AN**. Cistrome-based Cooperation Between Airway Epithelial Glucocorticoid Receptor and NF- κ B Orchestrates Anti-inflammatory Effects. *J Biol Chem*. 2016 Apr 13.

Doctor's Contact Information

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Locations

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