

Accepted Manuscript

Understanding the role of the microbiome in COPD: Principles, Challenges and Future Directions

Yvonne J. Huang, John R. Erb-Downward, Robert Dickson, Jeffrey L. Curtis, Gary B. Huffnagle, MeiLan K. Han



PII: S1931-5244(16)30100-1

DOI: [10.1016/j.trsl.2016.06.007](https://doi.org/10.1016/j.trsl.2016.06.007)

Reference: TRSL 1060

To appear in: *Translational Research*

Received Date: 31 March 2016

Revised Date: 9 June 2016

Accepted Date: 15 June 2016

Please cite this article as: Huang YJ, Erb-Downward JR, Dickson R, Curtis JL, Huffnagle GB, Han MK, Understanding the role of the microbiome in COPD: Principles, Challenges and Future Directions, *Translational Research* (2016), doi: 10.1016/j.trsl.2016.06.007.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Understanding the role of the microbiome in COPD: Principles, Challenges and Future
Directions**

Yvonne J. Huang¹, John R. Erb-Downward¹, Robert Dickson¹, Jeffrey L. Curtis^{1,2},
Gary B. Huffnagle¹, MeiLan K. Han¹

¹Division of Pulmonary and Critical Care, University of Michigan, 1500 E. Med. Ctr. Dr.
TC 3916, Ann Arbor, MI, 48109, United States

²Pulmonary & Critical Care Medicine Section, Medical Service, VA, 2215 Fuller Road
(506/111G), Ann Arbor, Michigan, 48105, United States

Corresponding Author:

MeiLan K. Han, MD, MS

1500 E. Med. Ctr. Dr. TC 3916

Ann Arbor, MI 48109

(734) 936-5201

mrking@umich.edu

Running Head: Microbiome in COPD

Key words: Airway disease, bacteria, 16S rRNA, emphysema, exacerbation

Download English Version:

<https://daneshyari.com/en/article/5685072>

Download Persian Version:

<https://daneshyari.com/article/5685072>

[Daneshyari.com](https://daneshyari.com)