

Online Supplement

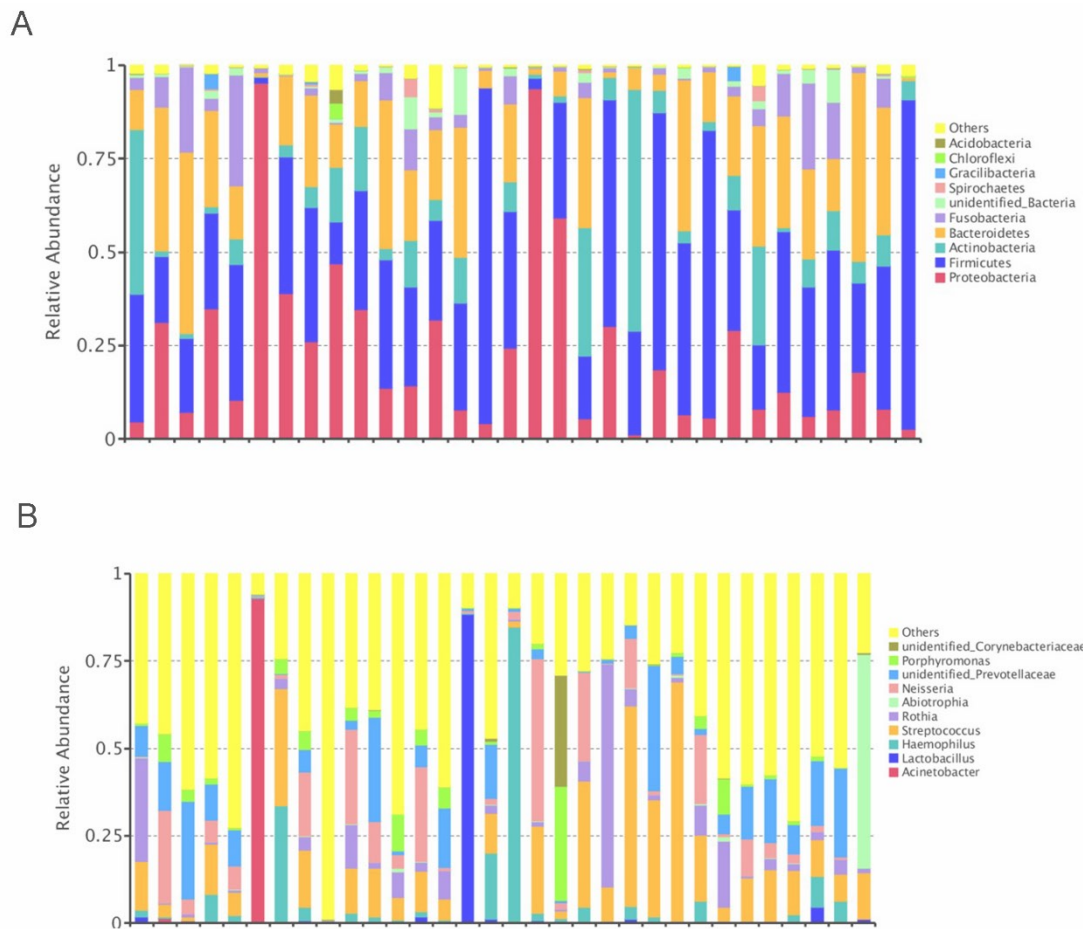
Respiratory Microbiome Profiles Associated With Distinct Inflammatory Phenotype and Clinical Indexes in Chronic Obstructive Pulmonary Disease

Tao Yu,^{1,2} Yunru Chen,³ Xiaoxia Ren,^{1,2} Ting Yang^{1,2}

¹ National Center for Respiratory Medicine, State Key Laboratory of Respiratory Health and Multimorbidity, National Clinical Research Center for Respiratory Diseases, Institute of Respiratory Medicine, Chinese Academy of Medical Sciences, Beijing, China

² Peking Union Medical College, Department of Pulmonary and Critical Care Medicine, Center of Respiratory Medicine, China-Japan Friendship Hospital, Beijing, China

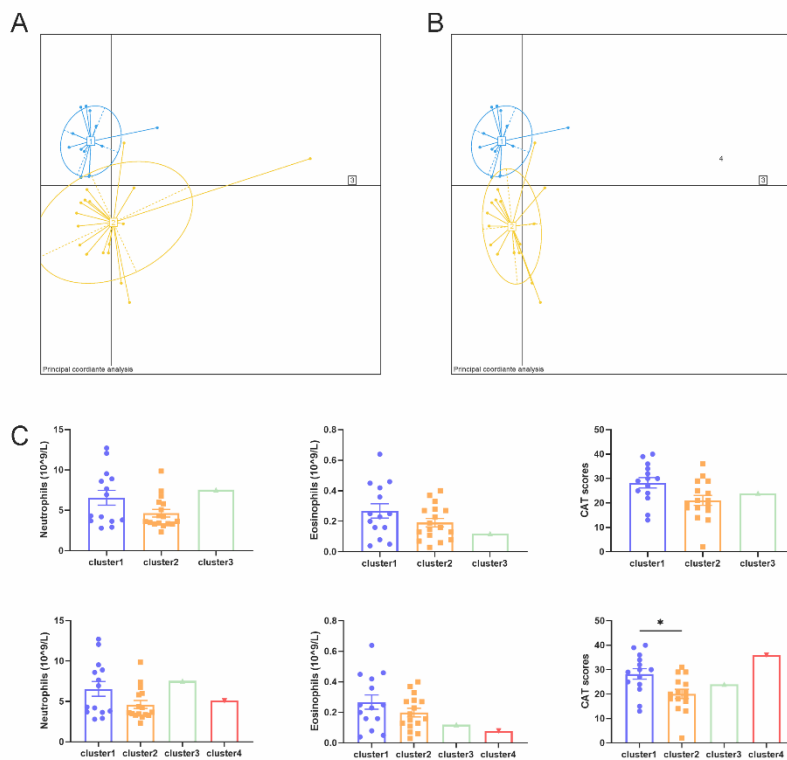
³ Centre for Evidence-based Chinese Medicine, School of Traditional Chinese Medicine, Beijing University of Chinese Medicine, Beijing, China



Supplementary Figure 1 Composition of the respiratory bacterial community in 32 patients

(A) Microbiome profiles of all stable samples at the phylum level. (B) Microbiome profiles of patients with COPD at the genus level.

COPD, chronic obstructive pulmonary disease



Supplementary Figure 2 Participant clustering and characteristics. (A-B) Two-dimensional (2D) principal coordinate analysis (PCoA) plot for 3 and 4 cluster. (C) Comparison of blood inflammatory phenotypes and CAT scores in clusters. CAT: COPD Assessment Test; COPD, chronic obstructive pulmonary disease

	<i>Prevotella</i>	<i>Fusobacterium</i>	<i>Bacteroides</i>
BMI	0.610	0.461	0.075
Smoking index	0.995	0.925	0.425
Number of exacerbations	0.144	0.309	0.018
FEV ₁ %pred (%)	0.917	0.845	0.910
CAT score	0.555	0.045	0.143
mMRC score	0.780	0.617	0.916
Blood neutrophils	0.901	0.799	0.776
Blood eosinophils	0.686	0.598	0.492

Supplementary Table 1 Correlation analysis between the dominant genera in each cluster and clinical index

Abbreviations: BMI, body mass index; COPD, chronic obstructive pulmonary disease;

FEV₁%pred, predicted percentage of forced expiratory volume in 1 s; CAT, COPD

Assessment Test; mMRC score, Modified British Medical Research Council