. The Human Lung Microbiome

- A Hidden Link for Human Health and Diseases

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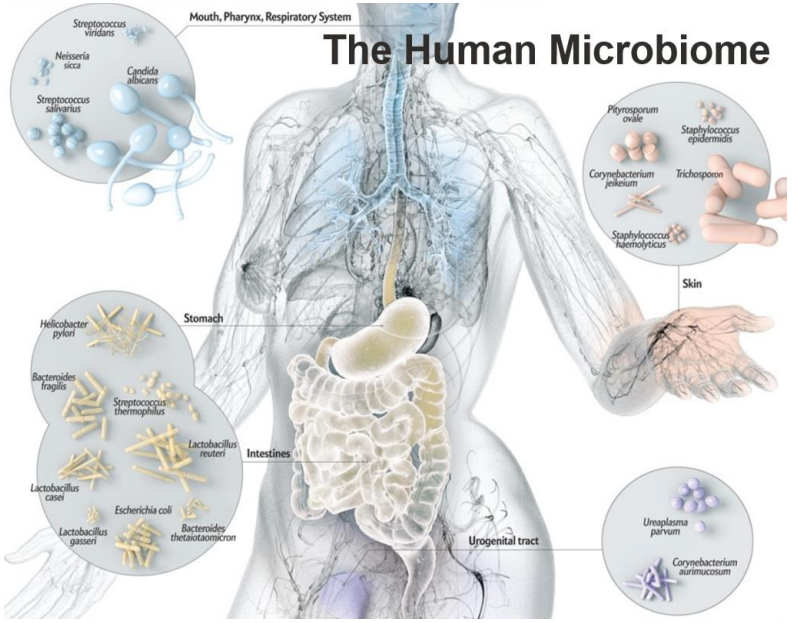
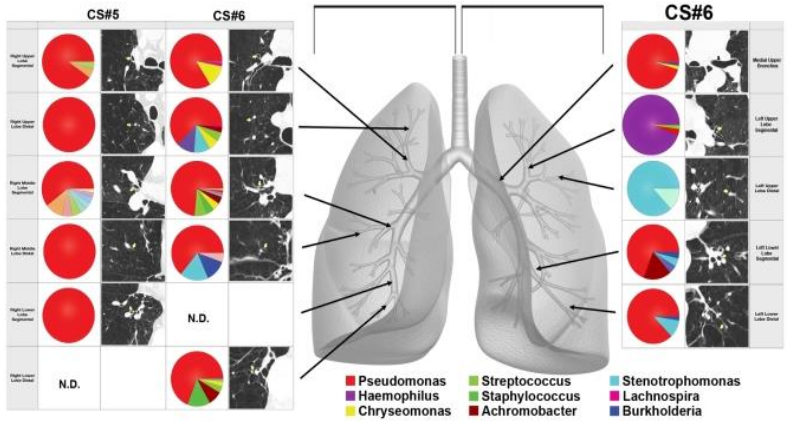
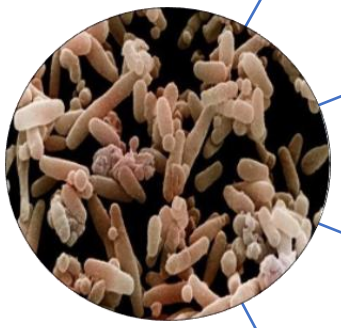
The Human Lung Microbiome







Asthma

COPD

Cystic Fibrosis

Bronchi ectasis

Asthma-associated differences in microbial composition of induced sputum

Pradeep Reddy Marri, PhD,[a] Debra A. Stern, MS,[b] Anne L. Wright, PhD,[b] Dean Billheimer, PhD,[a,c] and Fernando D. Martinez, MD[a,b] *Tucson, Ariz*

Microbes and mucosal immune responses in asthma

Trevor T Hansel, Sebastian L Johnston, Peter J Openshaw**

Analysis of the Lung Microbiome in the "Healthy" Smoker and in COPD

John R. Erb-Downward[1], Deborah L. Thompson[1], Meilan K. Han[1], Christine M. Freeman[1,2], Lisa McCloskey[1,2], Lindsay A. Schmidt[1], Vincent B. Young[1], Galen B. Toews[1,2], Jeffrey L. Curtis[1,2], Baskaran Sundaram[1], Fernando J. Martinez[1*], Gary B. Huffnagle[1,*]

Analysis of the Airway Microbiota of Healthy Individuals and Patients with Chronic Obstructive Pulmonary Disease by T-RFLP and Clone Sequencing

Tetyana Zakharkina[1], Elke Heinzel[2], Rembert A. Koczulla[3], Timm Greulich[3], Katharina Rentz[1], Josch K. Pauling[4], Jan Baumbach[4*], Mathias Herrmann[2], Christiane Grünewald[3], Hendrik Dienemann[3], Lutz von Müller[3], Robert Bals[1*]

Decade-long bacterial community dynamics in cystic fibrosis airways

Jiangchao Zhao[a], Patrick D. Schloss[b], Linda M. Kalikin[a], Lisa A. Carmody[a], Bridget K. Foster[a], Joseph F. Petrosino[c,d], James D. Cavalcoli[e], Donald R. VanDevanter[f], Susan Murray[g], Jun Z. Li[h], Vincent B. Young[b,i], and John J. LiPuma[a,j,1]

Sputum purulence-associated microbial community compositions in adults with bronchiectasis

Wei-Jie Guan[1,2], Yan Huang[1], Chun-Lan Chen[1], Jing-Jing Yuan[1], Hui-Min Li[1], Yong-Hua Gao[3], Rong-Chang Chen[1], Nan-Shan Zhong[1,2]

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Altered community compositions of *Proteobacteria* in adults with bronchiectasis

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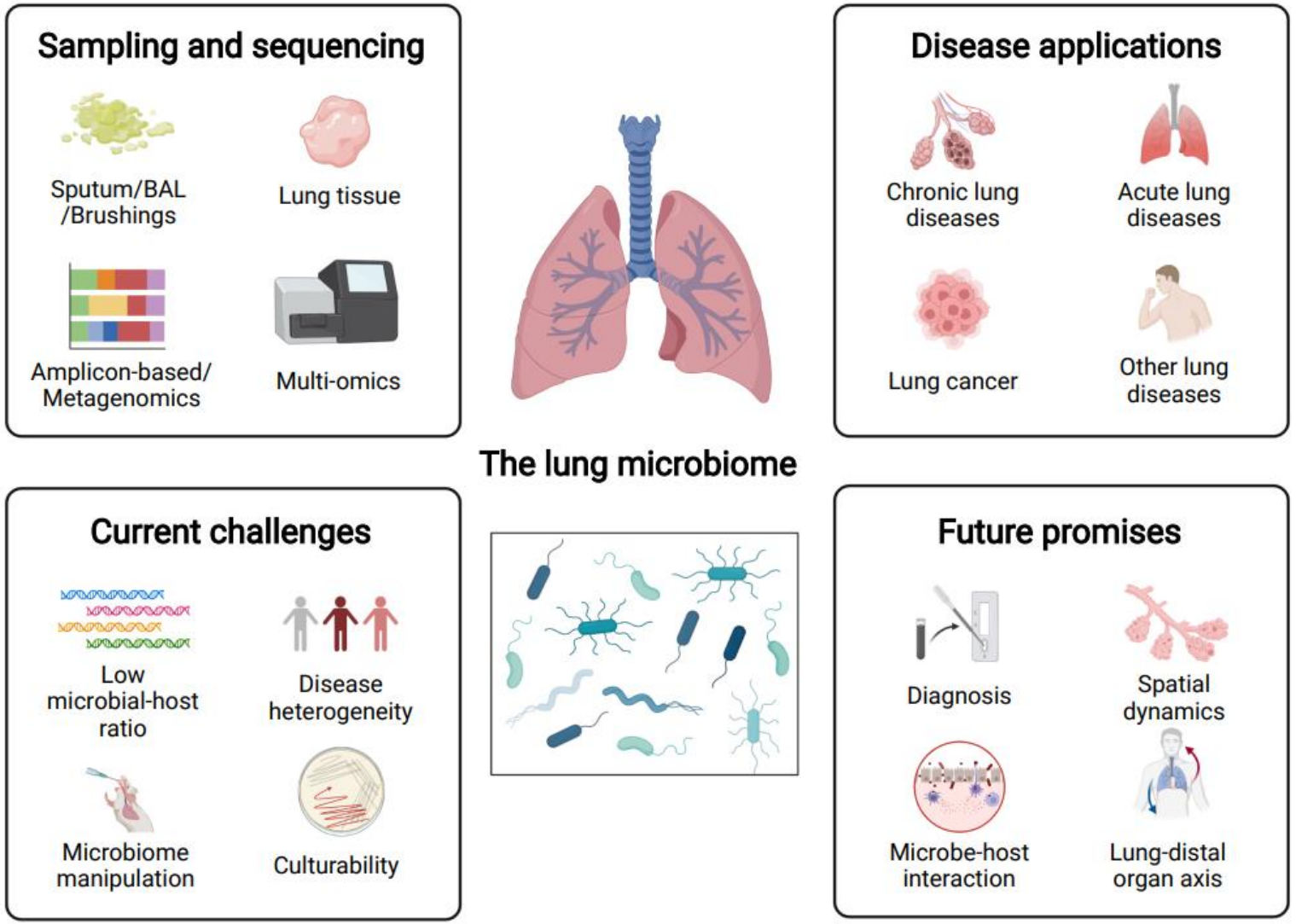
Lung Microbiome - Summary



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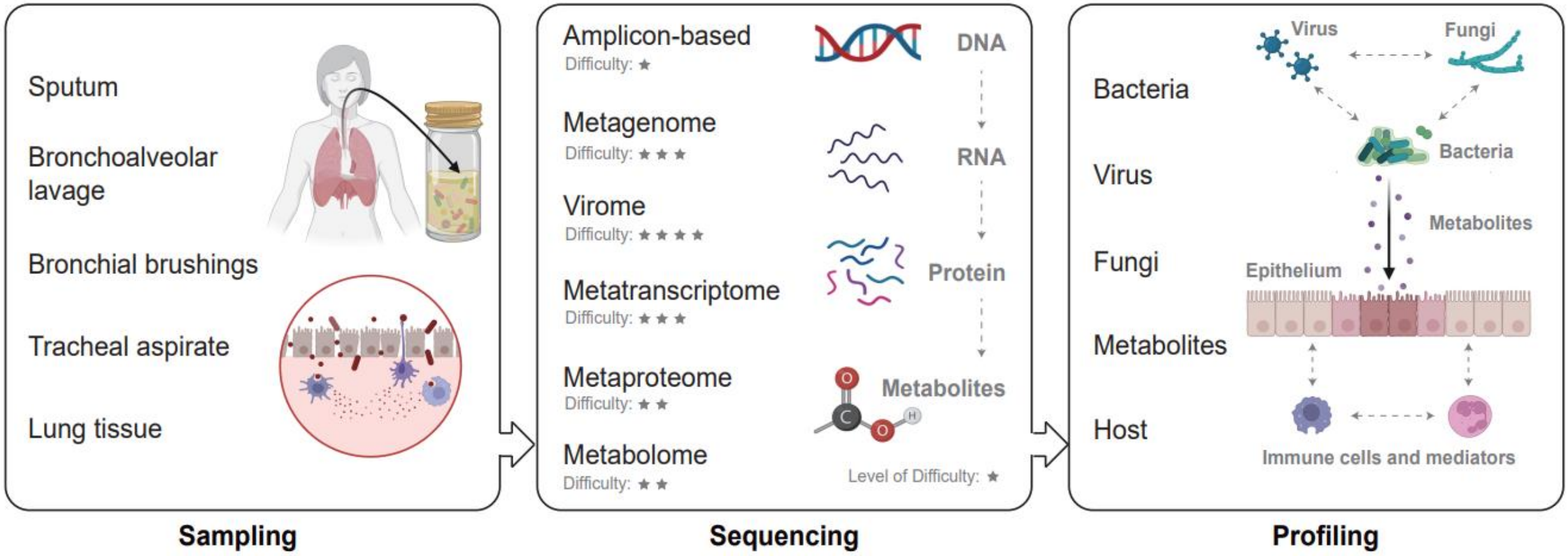
Lung Microbiome - Methodologies



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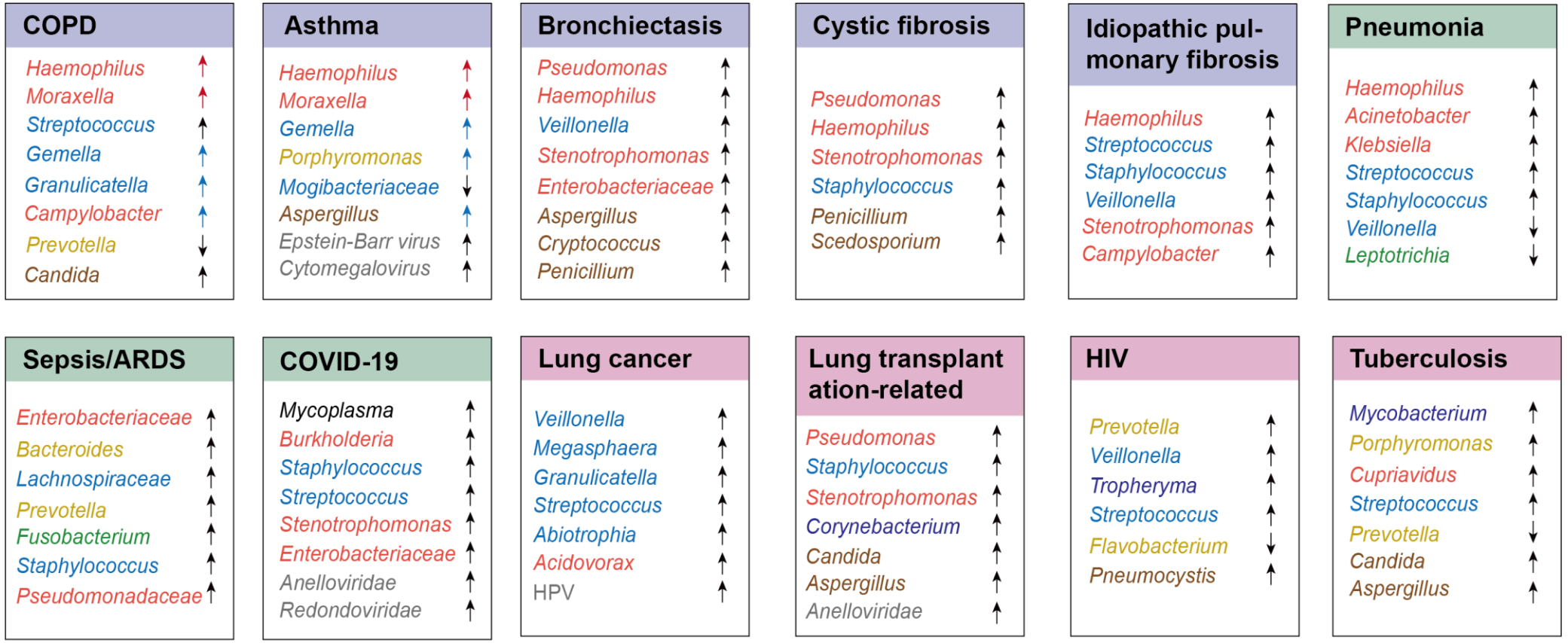
Lung Microbiome - Applications



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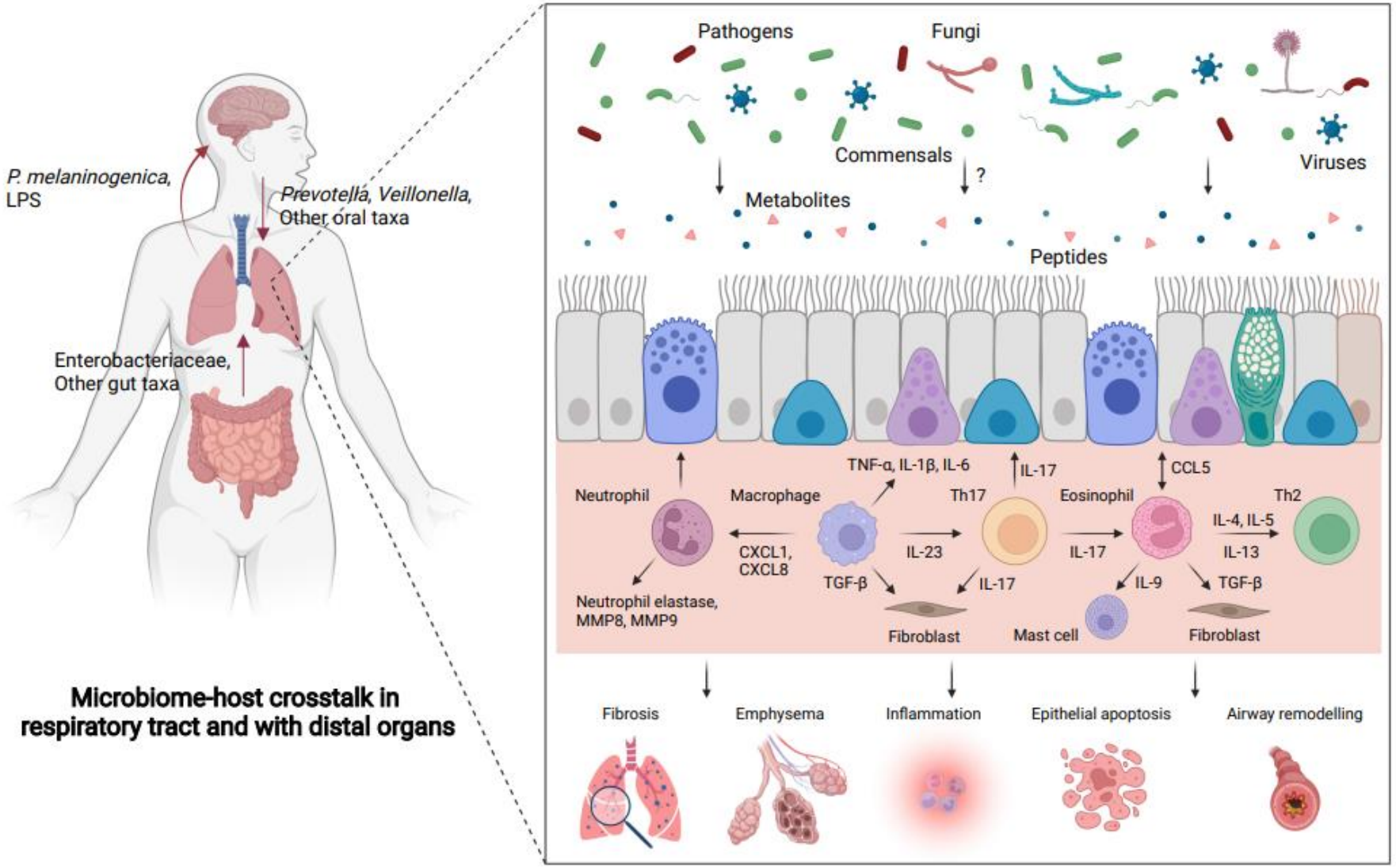
Lung Microbiome - Mechanisms



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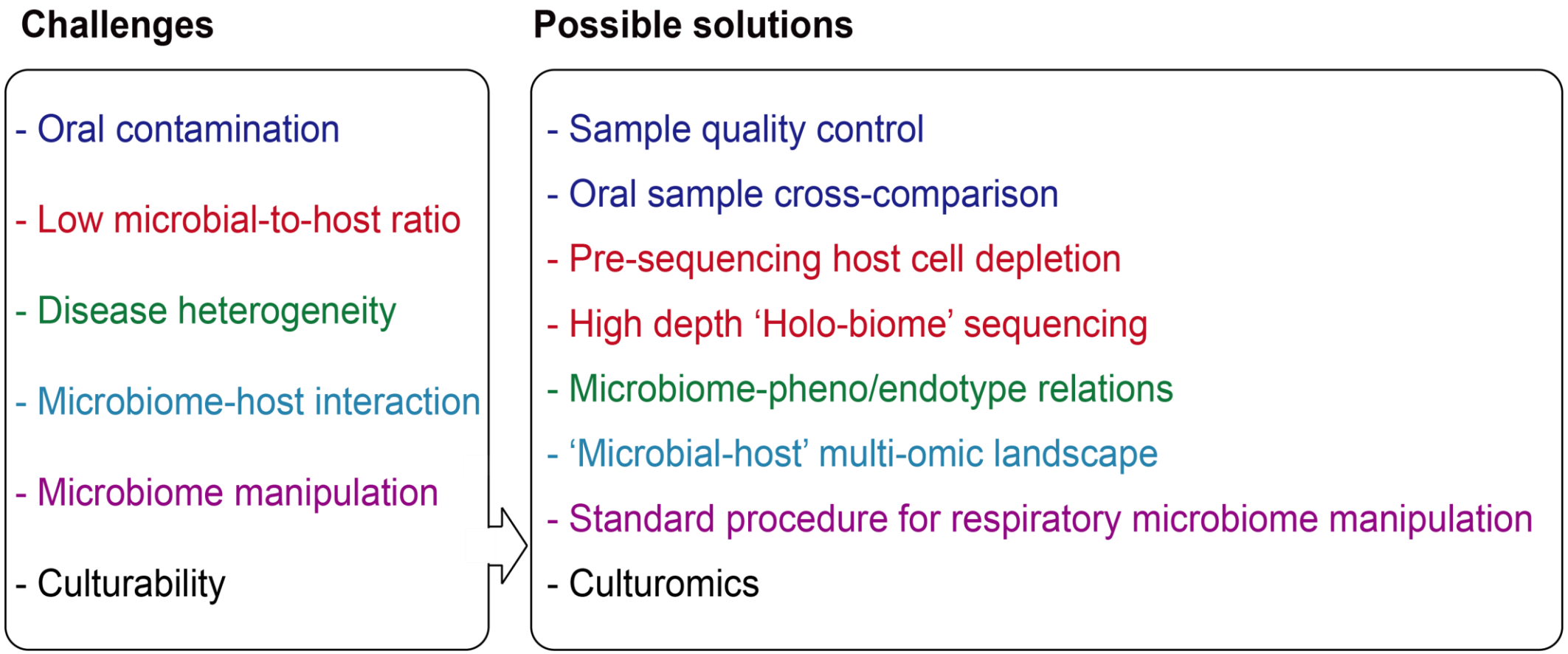
Lung Microbiome - Challenges



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