

# Primary human bronchial and nasal epithelial culture in air liquid interface

*Commonly used acronym: ALI-HBEC, ALI-HNEC*

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## SCOPE OF THE METHOD

<b>The Method relates to</b>	Human health
<b>The Method is situated in</b>	Basic Research
<b>Type of method</b>	In vitro - Ex vivo
<b>This method makes use of</b>	Human derived cells / tissues / organs
<b>Specify the type of cells/tissues/organs</b>	Bronchi, nasal and sinusal tissues

## DESCRIPTION

### Method keywords

HBEC

HNEC

ALI

air-liquid interface

primary culture  
respiratory epithelium

### **Scientific area keywords**

lung  
bronchus  
sinus  
nasal polyps  
chronic rhinosinusitis  
cystic fibrosis  
allergic rhinitis  
Chronic obstructive pulmonary disease  
human airways

### **Method description**

After digestion with pronase, human epithelial cells are cultured on flask and then on inserts to recapitulate a fully differentiated epithelium.

### **Lab equipment**

### **Method status**

Published in peer reviewed journal

## **REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION**

### **Associated documents**

[Colin et al. 2020. Ebiom. Lung IgA in CF..pdf](#)  
[Gohy et al. 2015. ERJ. EMT and COPD.pdf](#)  
[Gohy. 2014. Ajrccm. pIgR and COPD.pdf](#)

[Carlier 2020. Ebiom.pdf](#)

## PARTNERS AND COLLABORATIONS

### Organisation

**Name of the organisation** Cliniques universitaires Saint-Luc, UCLouvain

**Department** IREC, PNEU

**Country** Belgium

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