

Materials List for

## Nasal Brushing Sampling and Processing using Digital High Speed Ciliary Videomicroscopy – Adaptation for the COVID-19 Pandemic

Noemie Bricmont<sup>1</sup>, Lionel Benchimol<sup>2</sup>, Anne-Lise Poirrier<sup>2</sup>, Christine Grignet<sup>3</sup>, Claire Seaton<sup>4</sup>, Mark A. Chilvers<sup>4</sup>, Marie-Christine Seghaye<sup>5</sup>, Renaud Louis<sup>1,6</sup>, Philippe Lefebvre<sup>2</sup>, Celine Kempeneers<sup>1,7</sup>

<sup>1</sup>Pneumology laboratory, I3 Group, GIGA Research Center, University of Liège <sup>2</sup>Department of ENT, University Hospital of Liège <sup>3</sup>Department for Occupational Safety and Health, Biosafety and Biosecurity Unit, University of Liège <sup>4</sup>Division of Respirology, Department of Pediatrics, University of British Columbia and British Columbia Children's Hospital <sup>5</sup>Division of Cardiology, Department of Pediatrics, University Hospital of Liège <sup>6</sup>Department of Pediatrics, University Hospital of Liège <sup>7</sup>Division of Respirology, Department of Pediatrics, University Hospital of Liège

Corresponding Author	Citation		
Noemie Bricmont	Bricmont, N., Benchimol, L., Po	pirrier, A.L., Grignet, C., Seaton, C., Chilvers, M.A.,	
noemie.bricmont@chuliege.be	Seghaye, M.C., Louis, R., Lefebvre, P., Kempeneers, C. Nasal Brushing Sampling		
	and Processing using Digital High Speed Ciliary Videomicroscopy – Adaptation for the		
	COVID-19 Pandemic. J. Vis. Exp. (165), e61949, doi:10.3791/61949 (2020).		
Date Published	DOI	URL	
November 7, 2020	10.3791/61949	jove.com/video/61949	

## **Materials**

Name	Company	Catalog Number	Comments
15 mL conical tubes	FisherScientific	352096	15 ml High-Clarity Polypropylene Conical Tube with lid
Amphotericin B	LONZA	17-836E	Antifungal solution
Blakesley-weil nasal forceps	NOVO SURGICAL	E7739-12	Used to hold the brush to perform the nasal brushing
Bronchial cytology brush	CONMED	129	Used for nasal brushing
Cotton swab	NUOVA APTACA	2150/SG	Used for COVID-19 testing
Digitial high-speed videomicroscopy camera	IDTeu Innovation in motion	CrashCam Mini 1510	
Glass slide	ThermoScientific	12372098	Microscope slides used to create the visualization chamber
Heated Box	IBIDI cells in focus	10918	Used to heat the sample
Inverted Light microscope	Zeiss	AXIO Vert.A1	
Lens Heater	TOKAI HIT	TPiE-LH	Used to heat the oil immersion lens
Medium 199 (M199), HEPES	TermoFisher Scientific	12340030	Cell Culture Medium
Motion Studio X64	IDT Motion	version 2.14.01	Software
Oil	FischerScientific, Carl Zeiss	11825153	
Rectangular cover slip	VWR	631-0145	Used to cover the visualization chamber
Spacer (Ispacer) 0.25 mm	Sunjinlab	IS203	Used for the creation of the hermetic closed visualization chamber
Square cover slip	VWR	631-0122	Used for the creation of lab-built open visualization chamber



Streptomycin/Penicillin FisherScientific, Gibco 11548876 Antiobiotics solution