

Supplementary material

Lung Extracellular Matrix Hydrogels-Derived Vesicles Contribute to Epithelial Lung Repair

Anna Ulldemolins ¹, Alicia Jurado ¹, Carolina Herranz-Diez ¹, Núria Gavara ^{1,2},
Jorge Otero ^{1,2,3}, Ramon Farré ^{1,3,4} and Isaac Almendros ^{1,3,4,*}

¹ Unitat de Biofísica i Bioenginyeria, Facultat de Medicina i Ciències de la Salut,
Universitat de Barcelona, 08036 Barcelona, Spain

² The Institute for Bioengineering of Catalonia (IBEC), The Barcelona Institute of
Science and Technology (BIST), 08028 Barcelona, Spain

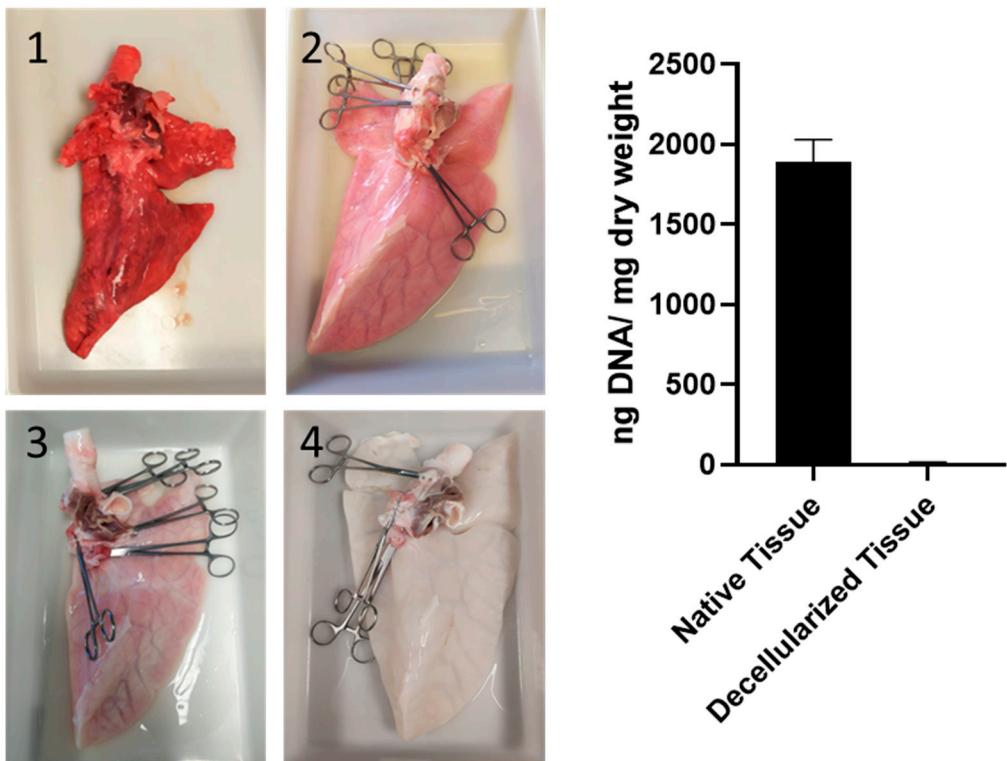
³ CIBER de Enfermedades Respiratorias, 28029 Madrid, Spain

⁴ Institut d'Investigacions Biomèdiques August Pi i Sunyer,
08036 Barcelona, Spain

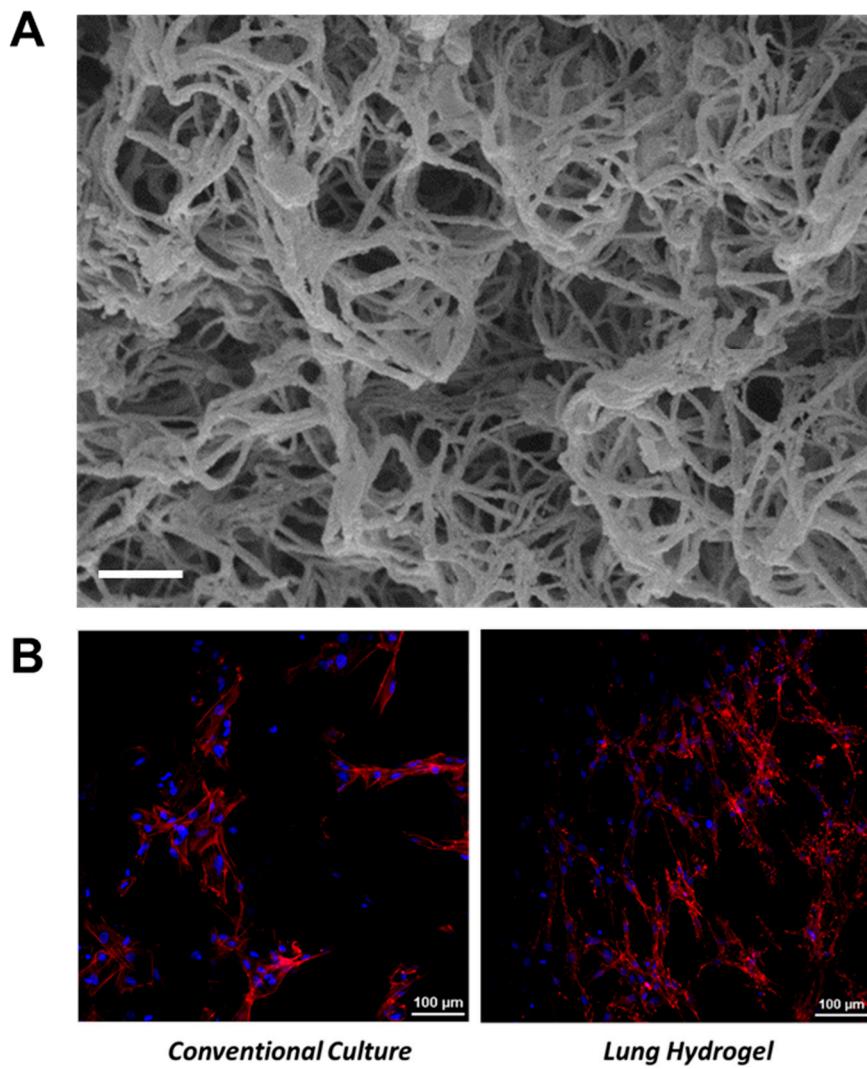
* Correspondence: isaac.almendros@ub.edu

Condition	Protein amount ($\mu\text{g/ml}$)
MSCs	6.72 ± 4.02
L-HG	15.43 ± 4.05
L-HG + MSCs	18.13 ± 3.58
L-HG NW	38.84 ± 4.34

Supplementary Table S1: Total protein added in each condition.



Supplementary Figure S1. Lung Decellularization. Left: Successive images of the porcine right lung through all the decellularization protocol (1: native, 4: decellularized). Right: DNA quantification on the lung tissue.



Supplementary Figure S2. (A) Scanning electron microscope (SEM) images of L-HG structure. Scale bar = 1 μ m. (B) Cell Distribution and morphology of MSCs on the conventional cell culture and on L-HG. Actin staining (red) and nucleus (blue).