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Correction: The vascular niche in next generation microphysiological systems

Makena L. Ewald,^a Yu-Hsi Chen,^b
 Abraham P. Lee^{*bc} and Christopher C. W. Hughes^{*ab}

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Correction for 'The vascular niche in next generation microphysiological systems' by Makena L. Ewald *et al.*, *Lab Chip*, 2021, DOI: 10.1039/d1lc00530h.

In the original article Table 1 was missing some of the sub-titles. The correct version of Table 1 is shown below.

Table 1 Endothelial cell sourcing for vascularized MPS platforms

Organ/tissue	Vascularized MPS study focus	Vascular network formation strategy	Lumenization?	Vascular barrier function assayed?	Ref.
<i>Primary ECs: human umbilical vein endothelial cell (HUVEC)</i>					
Liver	Evaluation of anticancer bioactivity in the TME and hepatotoxicity in the liver	Pre-patterned	No	—	189
Various cancers	Endothelial regulation of chemotherapeutic transport	Self-assembled	Yes	Yes	102
Ovarian cancer	Platelet extravasation through the endothelium into tumor microenvironment	Pre-patterned	Yes	Yes	190
Bone marrow	Bone marrow pathophysiology	Pre-patterned	Yes	No	103
Vasculature	Endothelial-to-mesenchymal transition axis	Self-assembled	Yes	Yes	13
Various cancers	Tumor heterogeneity and its influence on vasculature formation	Self-assembled	Yes	No	191
Various cancers	Tumor spheroid induced angiogenesis	Self-assembled	No	—	192
Myocardia	Endothelialized-myocardium platform for cardiovascular toxicity evaluation	Bioprinted	Yes	No	123
Lung	Pulmonary toxicity of nanoparticles	Pre-patterned	No	Yes	193
Lung	Anti-fibrotic drug nintedanib and its effect on vascular remodeling	Self-assembled	Yes	Yes	194
Bone marrow	Perivascular bone niche to study metastatic colonization of the bone	Self-assembled	Yes	Yes	136
Lung	Pathophysiology of pulmonary thrombosis and advance drug development	Pre-patterned	Yes	Yes	195
Retina	Outer blood-retinal barrier model	Self-assembled	Yes	Yes	196
Glioma	Bioprinted glioblastoma tumors derived from patient-derived tumor cells	Bioprinted	No	—	124
Vasculature	Effects of ambient fine particulate matter on the vasculature	Self-assembled	Yes	Yes	197
<i>Primary ECs: organotypic endothelial cells</i>					
Kidney	Tubular-vascular exchange of solutes akin to native kidney tissue.	Pre-patterned	Yes	Yes	27
Brain	Contributions of individual cell types of the blood brain barrier (BBB) to inflammatory stimuli	Pre-patterned	Yes	Yes	12
Liver	Continuous zonated liver model for diseases modeling and ADME/TOX	Pre-patterned	No	Yes	198

^a Department of Molecular Biology and Biochemistry, University of California Irvine, Irvine, CA 92697, USA. E-mail: cchughes@uci.edu

^b Department of Biomedical Engineering, University of California Irvine, Irvine, CA 92697, USA. E-mail: aplee@uci.edu

^c Department of Mechanical and Aerospace Engineering, University of California Irvine, Irvine, CA 92697, USA



Correction

Table 1 (continued)

<i>Primary ECs: organotypic endothelial cells</i>					
Kidney	Constructing a functional kidney glomerular-capillary-wall	Pre-patterned	Yes	Yes	199
Vasculature	Endothelial barrier dysfunction associated inflammatory and hematological diseases	Pre-patterned	Yes	Yes	200
Brain	Neurovascular microfluidic bioreactor for modeling of BBB function and testing of drug toxicity and permeability	Pre-patterned	Yes	Yes	201
<i>Primary ECs: endothelial colony forming cell derived endothelial cells (ECFC-ECs)</i>					
Vasculature	Vascular inflammation and thrombosis	Pre-patterned	Yes	Yes	202
Vasculature/cancer	Reproducible vascularized micro-organs and tumors	Self-assembled	Yes	Yes	100, 203
Vasculature	Spatial and temporal control of oxygen tensions characteristic of <i>in vivo</i> biology	Self-assembled	Yes	Yes	204
Vasculature	Large-scale perfusable microvascular networks	Self-assembled	Yes	Yes	205
Bone marrow	Hematopoietic stem/progenitor cell culture in parallel perivascular and endosteal niche	Self-assembled	Yes	Yes	101
Colorectal cancer	Capturing tumor heterogeneity, vascular disruption and TME interactions	Self-assembled	Yes	Yes	206
<i>Induced pluripotent stem cells derived endothelial cells (iPSC-ECs)</i>					
Vasculature	Developing a CDH5-mCherry reporter iPS cell line amenable to form stable, perfusable microvessels	Self-assembled	Yes	Yes	52
Progeria syndrome	Elucidating diseased endothelium's role in Hutchinson–Gilford progeria syndrome	Pre-patterned	Yes	No	14
Pancreas	Microvessel–pancreatic islet interactions	Self-assembled	Yes	Yes	51

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

