## **Supporting Information for**

## Alginate gel microwell arrays using electrodeposition for three-dimensional cell culture

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## Figure S1

Scheme for detecting respiration activity using SECM [15, 16, 19]. Briefly, the oxygen reduction currents were monitored with a conventional Pt disk probe at -0.50 V versus Ag/AgCl. A single EB was transferred into a cell composed of 6 cone-shaped microwells with a 2 mm radius and a depth of 2 mm [15]. A commercial SECM system, including the XYZ-stage and the potentiostat, was controlled by a PC.

Gene	Forward	Reverse Primer
ALBUMIN	5'-ATGAGATGCCTGCTGACTTG-3'	5'-GCACGACAGAGTAATCAGGA-3'
CYP1A2	5'-TTCATCCTGGAGACCTTC-3'	5'-GTAGAAGCCATTCAGCGTTG-3'
CYP3A4	5'-AGTCGCCTCGAAGATACACA-3'	5'-CGAGCTCCAGATCGGACA-3'
GAPDH	5'-ACCGTCAAGGCTGAGAAC-3'	5'-TGGTGAAGACGCCAGTG-3'

## Table S1. Primers for qRT-PCR