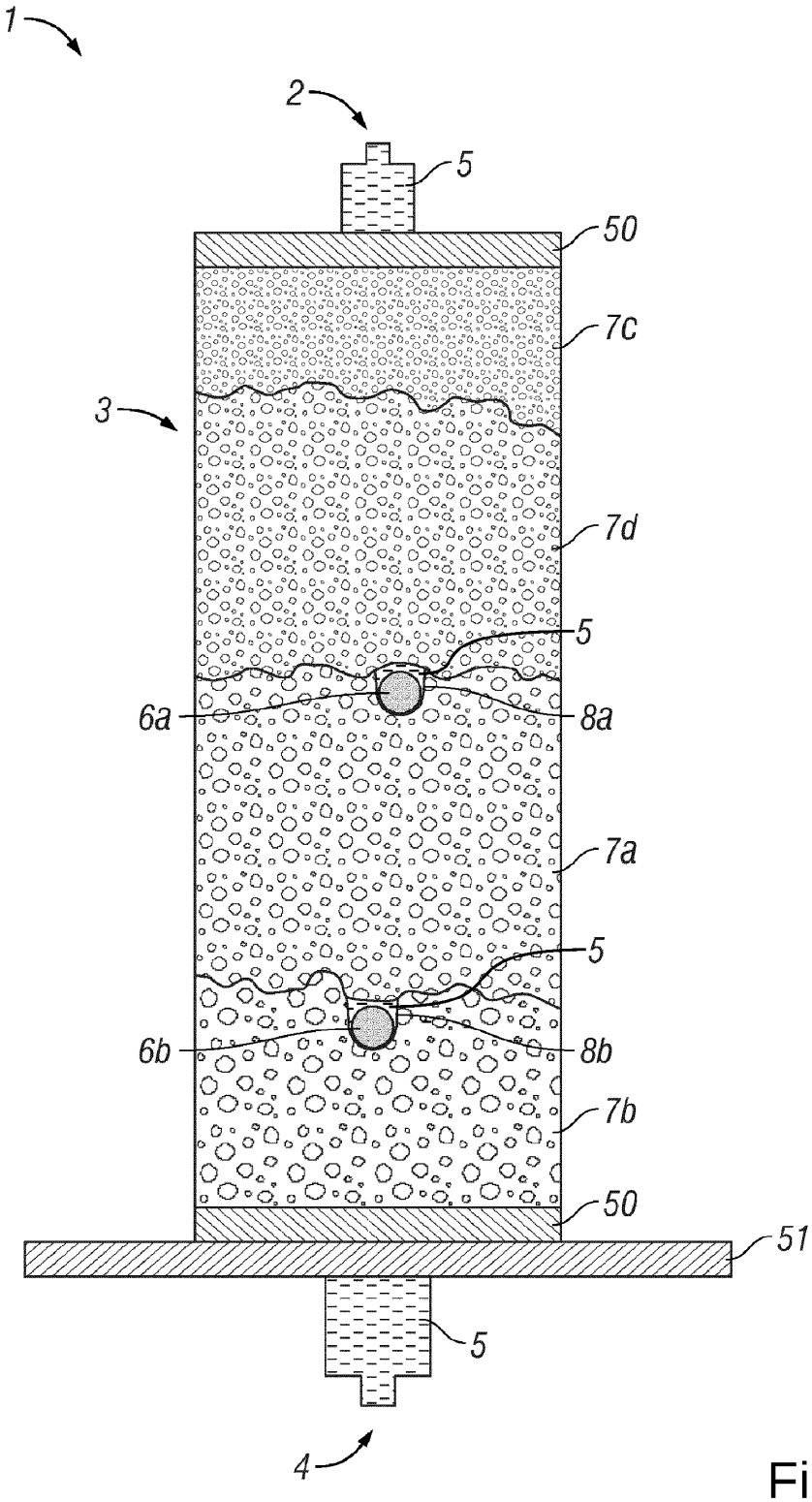


Fig. 1

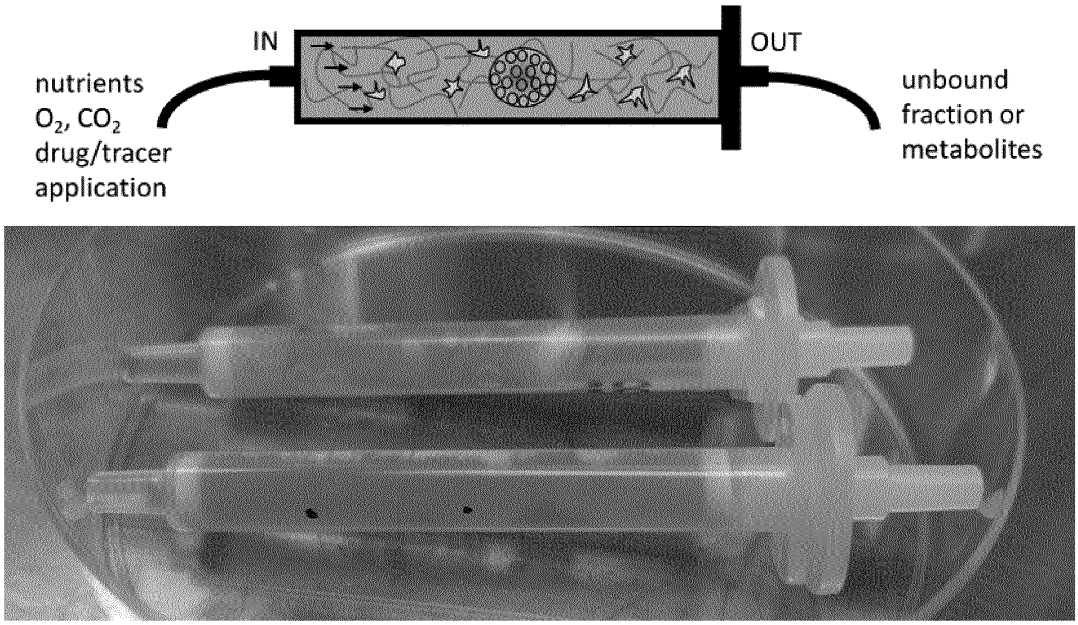

IN
OUT
nutrients
O_2, CO_2
drug/tracer
application
unbound
fraction or
metabolites

Fig. 2

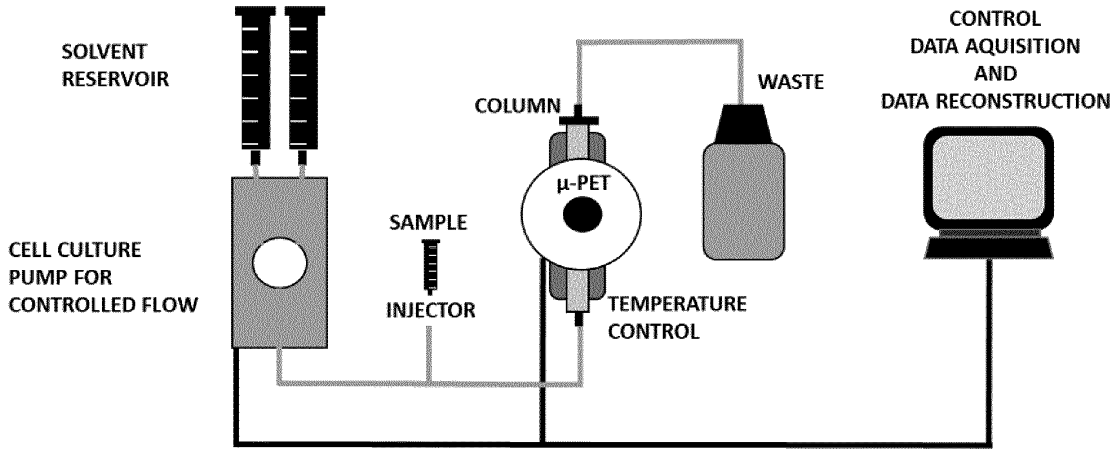

SOLVENT
RESERVOIR
CELL CULTURE
PUMP FOR
CONTROLLED FLOW
SAMPLE
INJECTOR
COLUMN
μ-PET
WASTE
TEMPERATURE
CONTROL
CONTROL
DATA AQUISITION
AND
DATA RECONSTRUCTION

Fig. 3

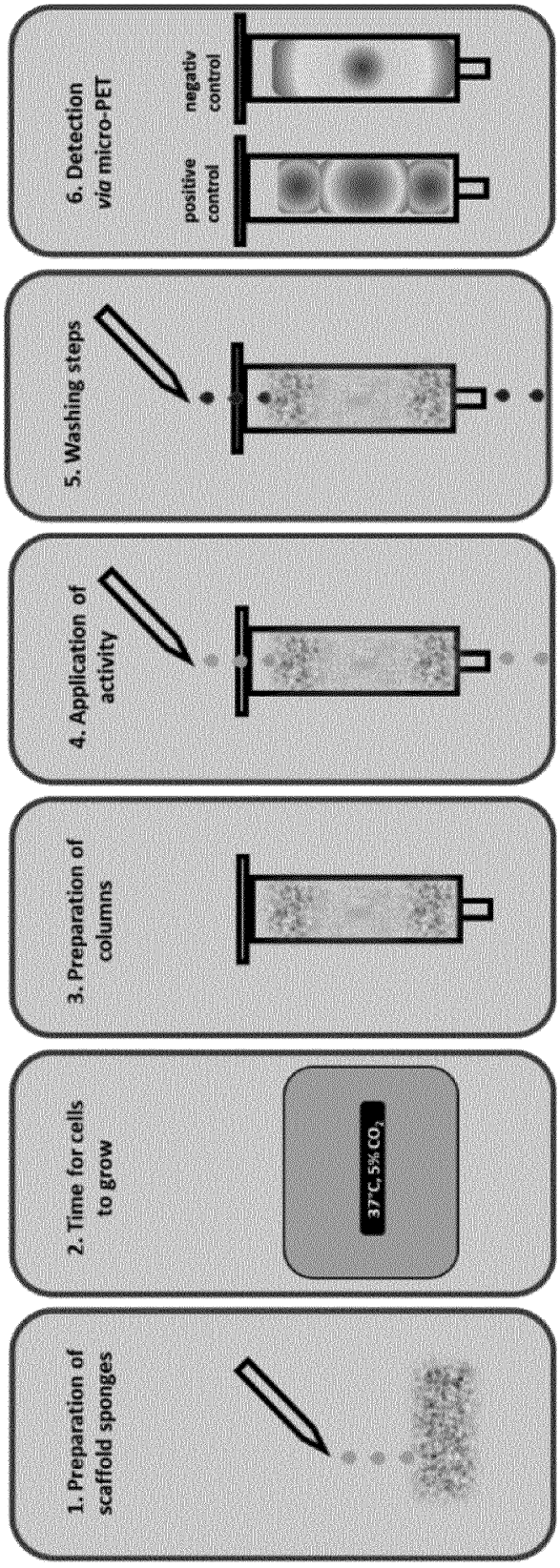

1. Preparation of scaffold sponges
2. Time for cells to grow
37°C, 5% CO_2
3. Preparation of columns
4. Application of activity
5. Washing steps
6. Detection *via* micro-PET
positive control
negativ control

Fig. 4

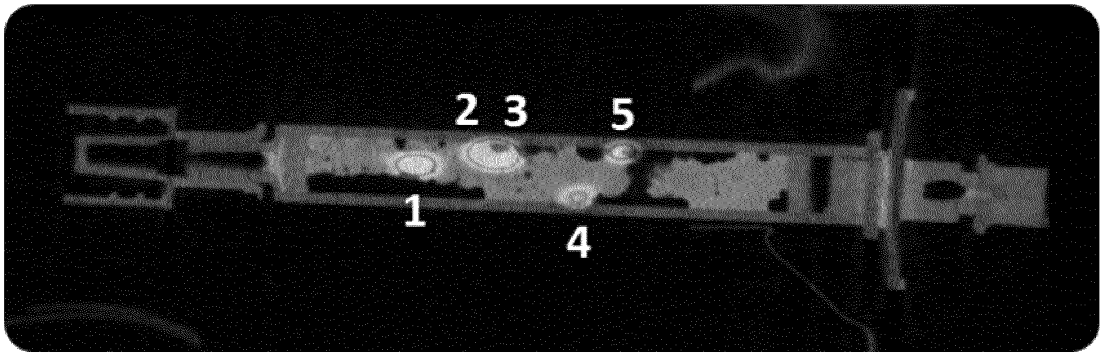


Fig. 5

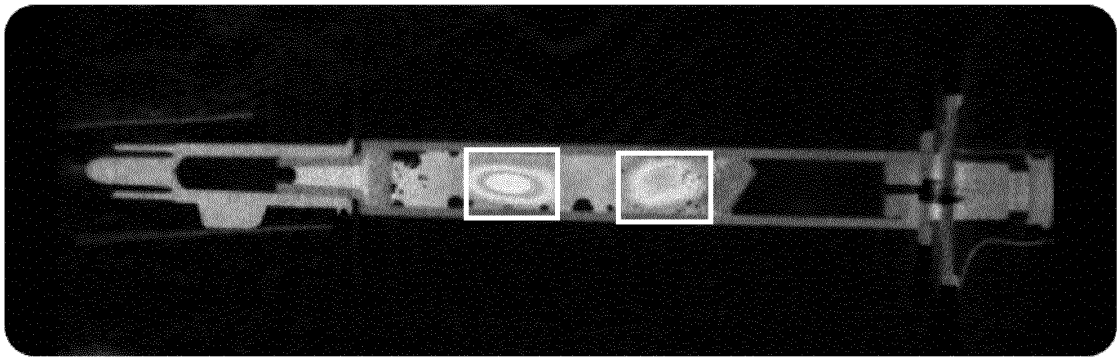


Fig. 6

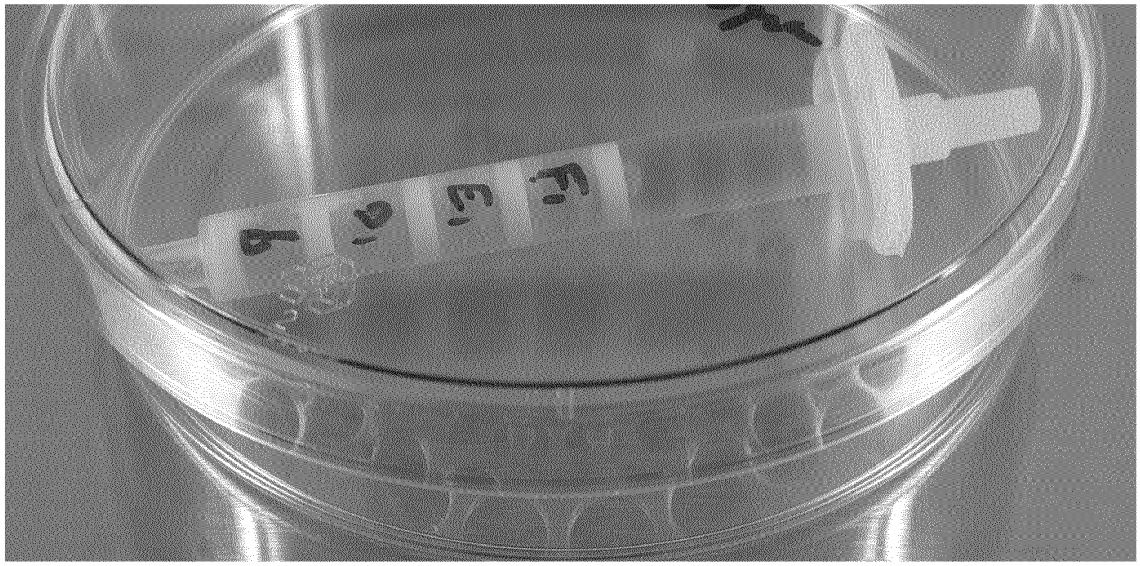


Fig. 7