

Resource Summary Report

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Microfluidic device to attain high spatial and temporal control of oxygen

RRID:SCR_017131

Type: Tool

Proper Citation

Microfluidic device to attain high spatial and temporal control of oxygen
(RRID:SCR_017131)

Resource Information

URL: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6301786/>

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Description: Device to control spatial and temporal variations in oxygen tensions to better replicate in vivo biology. Consists of three parallel connected tissue chambers and oxygen scavenger channel placed adjacent to these tissue chambers. Provides consistent control of spatial and temporal oxygen gradients in tissue microenvironment and can be used to investigate important oxygen dependent biological processes present in cancer, ischemic heart disease, and wound healing.

Resource Type: instrument resource

Defining Citation: [PMID:30571786](https://pubmed.ncbi.nlm.nih.gov/30571786/)

Keywords: device, instrument, control, spatial, temporal, variation, oxygen, tension, tissue, microenvironment

Funding: NCATS UH3 TR00048;
NCI R01 CA170879;
NIDDK UC4 DK104202;
NSF DGE-1143954

Resource Name: Microfluidic device to attain high spatial and temporal control of oxygen

Resource ID: SCR_017131

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Record Last Update: 20260725T190833+0000

Ratings and Alerts

No rating or validation information has been found for Microfluidic device to attain high spatial and temporal control of oxygen.

No alerts have been found for Microfluidic device to attain high spatial and temporal control of oxygen.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.