

# Resource Summary Report

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## Microfluidic device to attain high spatial and temporal control of oxygen

RRID:SCR\_017131

Type: Tool

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### Proper Citation

Microfluidic device to attain high spatial and temporal control of oxygen  
(RRID:SCR\_017131)

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### Resource Information

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

**Proper Citation:** Microfluidic device to attain high spatial and temporal control of oxygen  
(RRID:SCR\_017131)

**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](#)

**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

**Record Creation Time:** 20220129T080333+0000

**Record Last Update:** 20260808T190045+0000

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## 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.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.