

# Resource Summary Report

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## Pittsburgh Center for Kidney Research Single Nephron and Metabolomics

RRID:SCR\_015285

Type: Tool

### Proper Citation

Pittsburgh Center for Kidney Research Single Nephron and Metabolomics  
(RRID:SCR\_015285)

### Resource Information

**URL:** [http://www.kidneycenter.pitt.edu/cores/single\\_nephron\\_core.html](http://www.kidneycenter.pitt.edu/cores/single_nephron_core.html)

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**Description:** Core that offers functional (in vitro microperfusion of isolated segments, measurements of transepithelial ion/solute fluxes, fluorescence functional imaging of single tubular cells), biochemical (microassays of enzyme/transporter activity), molecular (quantitation and analysis of RNA and protein), and analytical (targeted renal metabolomics of interrelated networks of small molecules) strategies applied to microdissected tubules, single cells, and urinary exosomes to address relevant questions proposed by users. It also provides analytical services for determining concentrations of exogenous pharmacological agents and molecular probes achieved within the tissue of interest.

**Resource Type:** access service resource, core facility, service resource, resource

**Keywords:** single nephron, metabolomics, renal cells, cell analysis and function

**Funding:** NIDDK P30DK079307;  
University of Pittsburgh School of Medicine; Pennsylvania; USA ;  
Icahn School of Medicine at Mount Sinai; New York; USA

**Availability:** Available to the research community

**Resource Name:** Pittsburgh Center for Kidney Research Single Nephron and Metabolomics

**Resource ID:** SCR\_015285

**Record Creation Time:** 20220129T080324+0000

**Record Last Update:** 20260728T043453+0000

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## Ratings and Alerts

No rating or validation information has been found for Pittsburgh Center for Kidney Research Single Nephron and Metabolomics .

No alerts have been found for Pittsburgh Center for Kidney Research Single Nephron and Metabolomics .

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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.