

# Package ‘WeberDivechaLCdata’

May 14, 2024

**Version** 1.7.0

**Title** Spatially-resolved transcriptomics and single-nucleus  
RNA-sequencing data from the locus coeruleus (LC) in postmortem  
human brain samples

**Description** Spatially-resolved transcriptomics (SRT) and single-nucleus  
RNA-sequencing (snRNA-seq) data from the locus coeruleus (LC) in postmortem  
human brain samples. Data were generated with the 10x Genomics Visium SRT  
and 10x Genomics Chromium snRNA-seq platforms. Datasets are stored in  
SpatialExperiment and SingleCellExperiment formats.

**URL** <https://github.com/lmweber/WeberDivechaLCdata>

**BugReports** <https://github.com/lmweber/WeberDivechaLCdata/issues>

**License** MIT + file LICENSE

**biocViews** ExperimentData, ExperimentHub, ReproducibleResearch,  
ExpressionData, SequencingData, RNASeqData, SingleCellData,  
SpatialData, Homo\_sapiens\_Data

**Depends** ExperimentHub, SpatialExperiment, SingleCellExperiment

**Imports** utils

**VignetteBuilder** knitr

**Suggests** BiocStyle, knitr, rmarkdown

**RoxygenNote** 7.1.2

**git\_url** <https://git.bioconductor.org/packages/WeberDivechaLCdata>

**git\_branch** devel

**git\_last\_commit** fb4f3bd

**git\_last\_commit\_date** 2024-04-30

**Repository** Bioconductor 3.20

**Date/Publication** 2024-05-14

**Author** Lukas M. Weber [aut, cre] (<<https://orcid.org/0000-0002-3282-1730>>),  
Heena R. Divecha [aut] (<<https://orcid.org/0000-0002-1959-0675>>)

**Maintainer** Lukas M. Weber <lmweberedu@gmail.com>

## Contents

WeberDivechaLCdata . . . . .	2
------------------------------	---

<b>Index</b>	<b>3</b>
--------------	----------

---

WeberDivechaLCdata	<i>Spatially-resolved transcriptomics and single-nucleus RNA-sequencing data from the locus coeruleus (LC) in postmortem human brain samples</i>
--------------------	--

---

## Description

Spatially-resolved transcriptomics (SRT) and single-nucleus RNA-sequencing (snRNA-seq) data from the locus coeruleus (LC) in postmortem human brain samples. Data were generated with the 10x Genomics Visium SRT and 10x Genomics Chromium snRNA-seq platforms. Datasets are stored in SpatialExperiment and SingleCellExperiment formats.

## Details

This dataset is described in our paper on the gene expression landscape of the human locus coeruleus (LC). The data are provided as R/Bioconductor objects in this package, and in online web apps (Shiny and iSEE) for interactive exploration. The R/Bioconductor objects in this package are stored in SpatialExperiment (Visium data) and SingleCellExperiment (snRNA-seq data) formats.

### Datasets

The package contains the following objects:

- WeberDivechaLCdata\_Visium: SRT (Visium) dataset
- WeberDivechaLCdata\_singleNucleus: snRNA-seq dataset

The objects can be loaded using the dataset names, i.e. `WeberDivechaLCdata_Visium()` and `WeberDivechaLCdata_singleNucleus()`, or by accessing the ExperimentHub IDs (see vignette).

## Examples

```
# Load objects using dataset names
spe <- WeberDivechaLCdata_Visium()
sce <- WeberDivechaLCdata_singleNucleus()

# Show objects
spe
sce
```

# Index

WeberDivechaLCdata, [2](#)  
WeberDivechaLCdata-package  
    (WeberDivechaLCdata), [2](#)  
WeberDivechaLCdata\_singleNucleus  
    (WeberDivechaLCdata), [2](#)  
WeberDivechaLCdata\_Visium  
    (WeberDivechaLCdata), [2](#)