

# Package ‘spatialDmelxsim’

July 24, 2025

**Title** Spatial allelic expression counts for fly cross embryo

**Version** 1.14.0

**Description** Spatial allelic expression counts from Combs & Fraser (2018), compiled into a SummarizedExperiment object. This package contains data of allelic expression counts of spatial slices of a fly embryo, a *Drosophila melanogaster* x *Drosophila simulans* cross. See the CITATION file for the data source, and the associated script for how the object was constructed from publicly available data.

**Imports** utils

**Depends** R (>= 4.1), ExperimentHub, SummarizedExperiment

**License** GPL-3

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.1.1

**URL** <https://github.com/mikelove/spatialDmelxsim>

**BugReports** <https://github.com/mikelove/spatialDmelxsim/issues>

**Suggests** knitr, rmarkdown, BiocStyle

**VignetteBuilder** knitr

**biocViews** ExperimentHub, SequencingData, RNASeqData, ExpressionData, *Drosophila\_melanogaster\_Data*, GEO

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

**git\_branch** RELEASE\_3\_21

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Description

Allelic expression counts of spatial slices of a fly embryo from Combs & Fraser (2018), a D melanogaster x D simulans reciprocal cross

References

Combs PA, Fraser HB (2018) Spatially varying cis-regulatory divergence in Drosophila embryos elucidates cis-regulatory logic. PLOS Genetics 14(11): e1007631.

Examples

```
suppressPackageStartupMessages(library(SummarizedExperiment))
se <- spatialDmelxsim()
se
```

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