

# Package: OSTA (via r-universe)

June 13, 2026

**Title** Orchestrating Spatial Transcriptomics Analysis with Bioconductor

**Description** This package contains source files for the "Orchestrating Spatial Transcriptomics Analysis with Bioconductor" online book. This book provides interactive examples and discussion on key principles of computational analysis workflows for spatial transcriptomics data using Bioconductor in R. The book contains chapters describing individual analysis steps as well as extended workflows, each with examples including R code and datasets.

**Version** 1.3.1

**Date** 2026-06-11

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

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

**biocViews** Spatial, SingleCell, GeneExpression, Transcriptomics

**Depends** R (>= 4.5)

**Imports** anndataR, AUCell, Banksy, basilisk, BayesSpace, BiocFileCache, BiocParallel, CARDspa, DESpace, doMC, dplyr, DropletUtils, EBImage, ExperimentHub, GenomeInfoDb, ggfortify, ggplot2, ggrepel, ggspavis, harmony, hoodscanR, igraph, imcdatasets, imcRtools, jsonlite, lme4, lmerTest, msigdbr, muSpaData, nnSVG, openxlsx, osfr, OSTA.data, pals, patchwork, pheatmap, RANN, RColorBrewer, reticulate, rtracklayer, scales, scater, scider, scrapper, scran, scuttle, scRNAseq, sf, SFEData, SingleR, sosta, SpaceTrooper, spacexr, SpatialExperiment, SpatialExperimentIO, spatialFDA, SpatialFeatureExperiment, spatialLIBD, spatstat, spdep, spicyR, SpotSweeper, STexampleData, tidyr, VisiumIO, Voyager, zoo

**Suggests** BiocManager, BiocPkgTools, BiocStyle, BiocVersion, CCPlotR, downlit, glue, knitr, markdown, quarto, scrapper, sessioninfo, Statial, xml2

**Encoding** UTF-8

**Roxygen** list(markdown = TRUE)

**BiocType** Book**License** CC BY 4.0**VignetteBuilder** knitr**BiocBookTemplate** 1.0.6**SystemRequirements** quarto

**Config/pak/sysreqs** libabsl-dev libcairo2-dev cmake libfftw3-dev libfontconfig1-dev libfreetype6-dev libfribidi-dev libgdal-dev gdal-bin libgeos-dev libglpk-dev make libharfbuzz-dev libmagick++-dev gsfonts default-jdk libbz2-dev libicu-dev libjpeg-dev liblzma-dev libpng-dev libtiff-dev libuv1-dev libwebp-dev libxml2-dev libssl-dev perl libproj-dev python3 libsqlite3-dev libudunits2-dev libnode-dev libx11-dev xz-utils zlib1g-dev

**Repository** <https://tempbioc.r-universe.dev>**Date/Publication** 2026-06-11 12:42:59 UTC**RemoteUrl** <https://github.com/bioc/OSTA>**RemoteRef** HEAD**RemoteSha** df45a78b779b72808378710278eac3aeab6c1070

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