

Package: OSTA (via r-universe)

October 10, 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 1.2.2

Date 2026-07-10

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, msigdb, muSpaData, nnSVG, openxlsx, osfr, OSTA.data, pals, patchwork, pheatmap, RANN, RColorBrewer, reticulate, rtracklayer, scales, scater, scider, scrapper, scan, scuttle, scRNAseq, sf, SFEData, SingleR, sosta, SpaceTrooper, spacexr, SpatialExperiment, SpatialExperimentIO, spatialFDA, SpatialFeatureExperiment, spatialLIBD, spatstat, spdep, spidyR, 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
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VignetteBuilder knitr
BiocBookTemplate 1.0.6
SystemRequirements quarto
Config/pak/sysreqs libabsl-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 libxml2-dev libssl-dev perl libproj-dev python3 libsqlite3-dev libudunits2-dev libnode-dev libx11-dev xz-utils zlib1g-dev
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