Package ‘VectraPolarisData’

March 26, 2024

Title Vectra Polaris and Vectra 3 multiplex single-cell imaging data
Version 1.6.0
Date 2022-03-31
Description Provides two multiplex imaging datasets collected on Vectra instruments at the University of Colorado Anschutz Medical Campus.
   Data are provided as a Spatial Experiment objects.
   Data is provided in tabular form and has been segmented and phenotyped using Inform software.
   Raw .tiff files are not included.
URL https://github.com/julia-wrobel/VectraPolarisData
BugReports https://support.bioconductor.org/t/VectraPolarisData
biocViews ExperimentHub, ExperimentData, SpatialData, SingleCellData,
   Homo_sapiens_Data, ReproducibleResearch
Depends ExperimentHub, SpatialExperiment, utils
RoxygenNote 7.1.2
Suggests BiocStyle, knitr, rmarkdown, dplyr
VignetteBuilder knitr
Encoding UTF-8
License Artistic-2.0

Author Wrobel Julia [aut, cre] (<https://orcid.org/0000-0001-6783-1421>),
   Tusharkanti Ghosh [aut]
Maintainer Wrobel Julia <julia.wrobel@cuanschutz.edu>
VectraPolarisData

R topics documented:

VectraPolarisData

Index

Description

Vectra 3 and Vectra Polaris multiplex imaging datasets, formatted into objects of class SpatialExperiment. Datasets may be used for testing of and as examples in packages, for tutorials and workflow demonstrations, or similar purposes.

Details

The following Vectra multiplex imaging datasets are currently available (see the package vignette for links to details and data dictionaries):

- HumanLungCancerV3
- HumanOvarianCancerVP

Value

a SpatialExperiment class object with rows corresponding to samples (cells) and columns to features (markers).

Author(s)

Julia Wrobel

Examples

# retrieve dataset of interest

library(ExperimentHub)
eh <- ExperimentHub()  # initialize hub instance
q <- query(eh, "VectraPolarisData")  # retrieve 'VectraPolarisData' records
id <- q$ah_id[1]  # specify dataset ID to load
spe <- eh[[id]]  # load specified dataset
Index

HumanLungCancerV3 (VectraPolarisData), 2
HumanOvarianCancerVP (VectraPolarisData), 2
SpatialExperiment, 2
VectraPolarisData, 2