Package 'VectraPolarisData'

November 10, 2026

Title Vectra Polaris and Vectra 3 multiplex single-cell imaging data

Version 1.16.0

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

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Author Wrobel Julia [aut, cre] (ORCID: <https://orcid.org/0000-0001-6783-1421>), Tusharkanti Ghosh [aut]

Maintainer Wrobel Julia <julia.wrobel@cuanschutz.edu>

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`VectraPolarisData` *VectraPolarisData*

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
```

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