Feb 07, 2024

# Spatially variable gene detection

In 1 collection

DOI
https://dx.doi.org/10.17504/protocols.io.rm7vzxp28gx1/v1

Peter Kilfeather[1]

[1]University of Oxford

Peter Kilfeather



OPEN ACCESS

**DOI:** https://dx.doi.org/10.17504/protocols.io.rm7vzxp28gx1/v1

**Protocol Citation:** Peter Kilfeather 2024. Spatially variable gene detection. **protocols.io** https://dx.doi.org/10.17504/protocols.io.rm7vzxp28gx1/v1



**Protocol status:** Working
**We use this protocol and it's working**

**Created:** February 07, 2024

**Last Modified:** February 07, 2024

**Protocol Integer ID:** 94802

**Keywords:** spatially variable gene detection, variable gene detection, variable gene detection from kilfeather, gene, detection

**Funders Acknowledgements:**
**Aligning Science Across Parkinson's**
Grant ID: ASAP-020370
**Monument Trust Discovery Award from Parkinson's UK**
Grant ID: J-1403

## Abstract

Spatially variable gene detection from Kilfeather, Khoo et al., 2024

## Protocol

1 Spatially variable genes were identified using SpatialDE2 with default settings. Coordinates and full expression matrices of each brain were supplied, divided by cell type. To combine results from separate samples, a meta-analysis was performed on the raw *P* values from each sample, using Fisher's method. The Benjamini & Hochberg correction for multiple comparisons was subsequently used and genes were considered spatially variable with an adjusted *P* value of $< 0.01$.