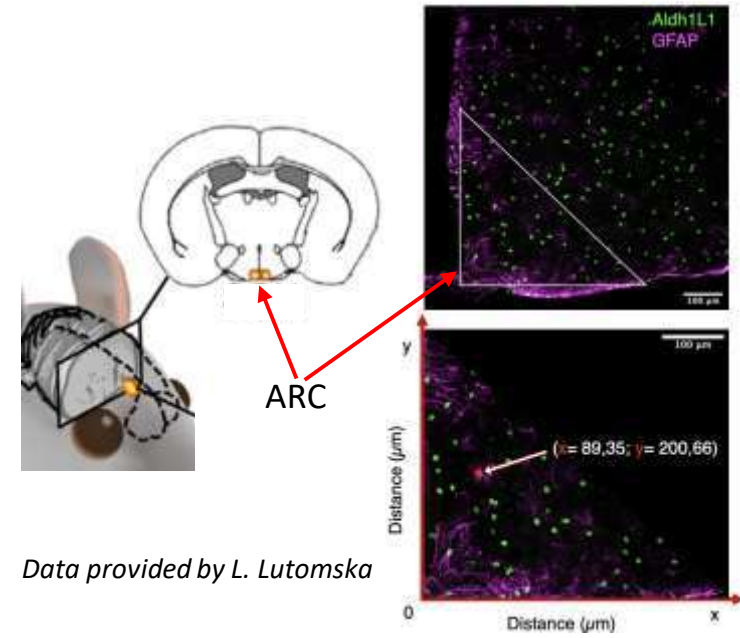


R-Shiny App for Cellular Spatial Point Patterns Analysis

Viktorian Miok

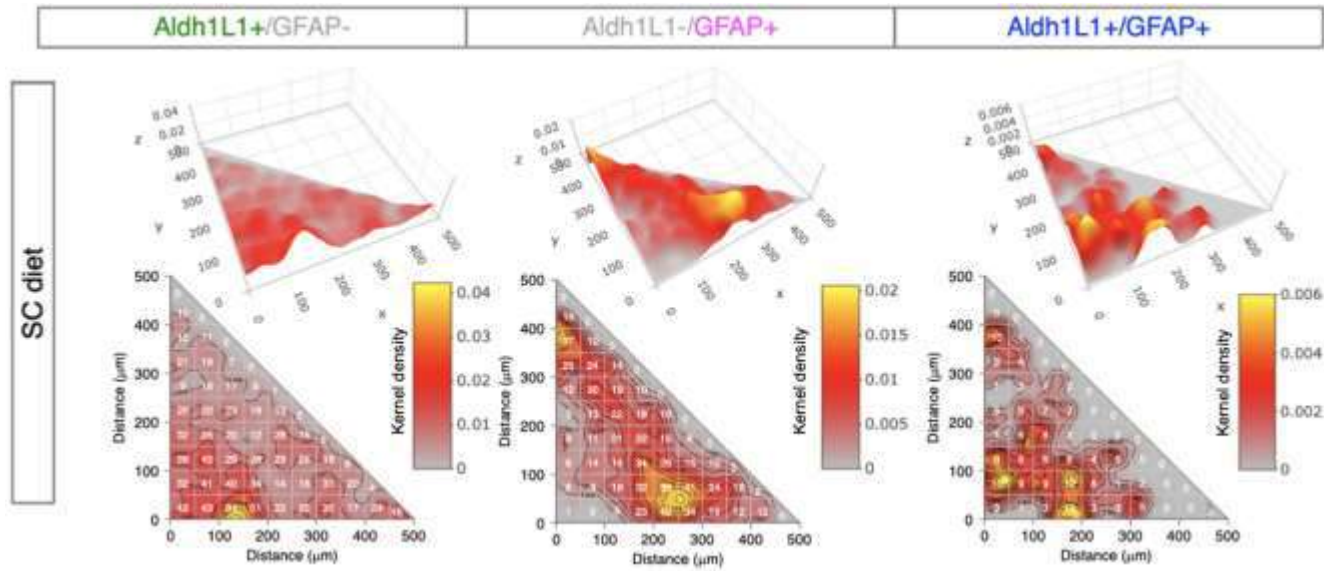
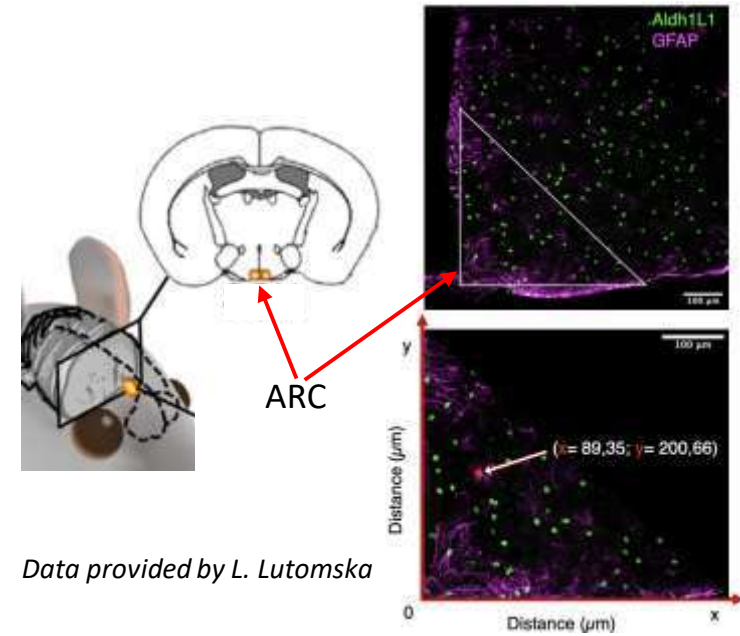
Postdoctoral fellow
Institute for Diabetes and Obesity
German Center for Diabetes Research

Astrocyte spatial point patterns analysis



Data provided by L. Lutomska

Astrocyte spatial point patterns analysis



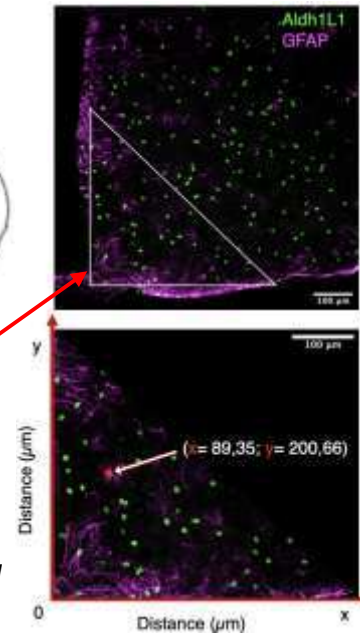
SC diet

Data provided by L. Lutomska

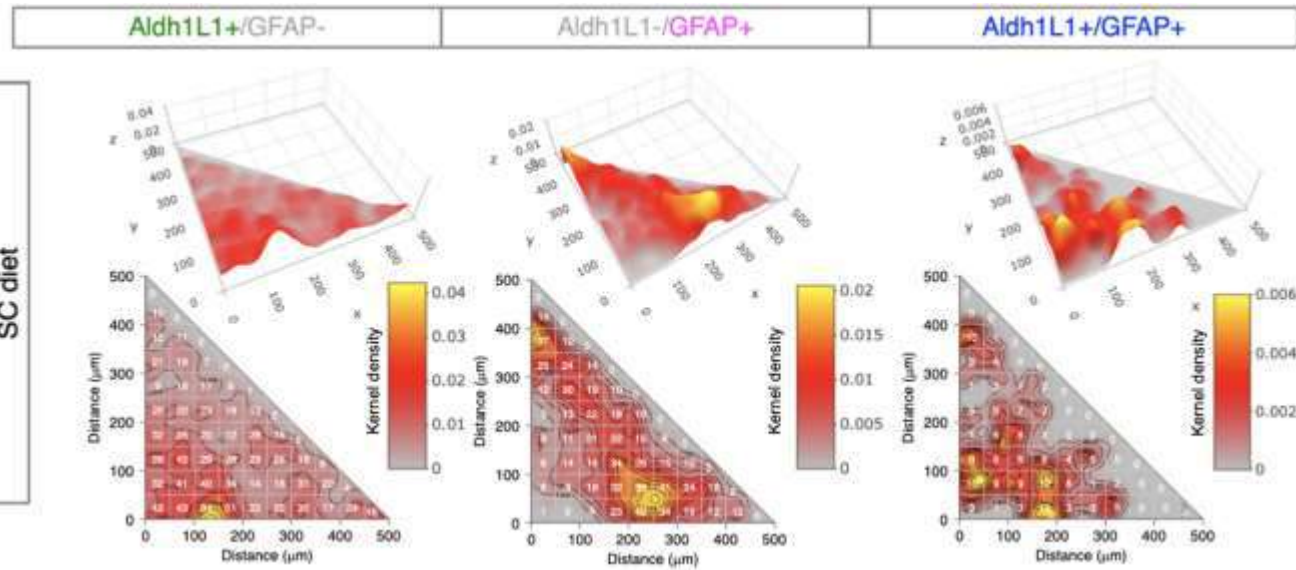
Astrocyte spatial point patterns analysis



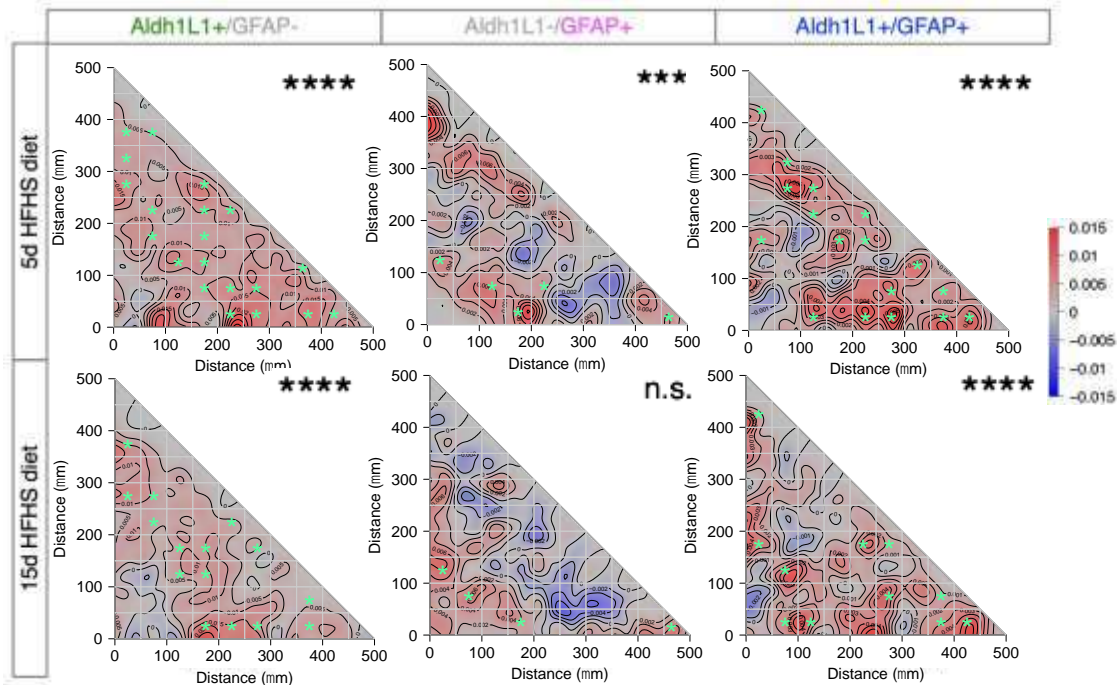
ARC



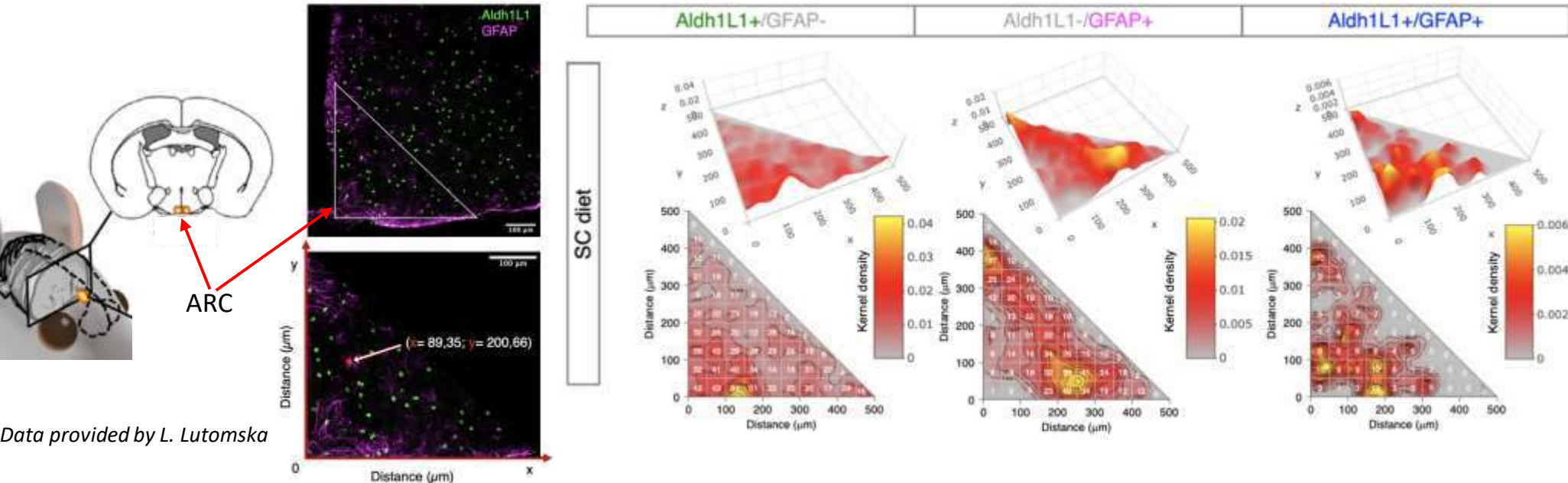
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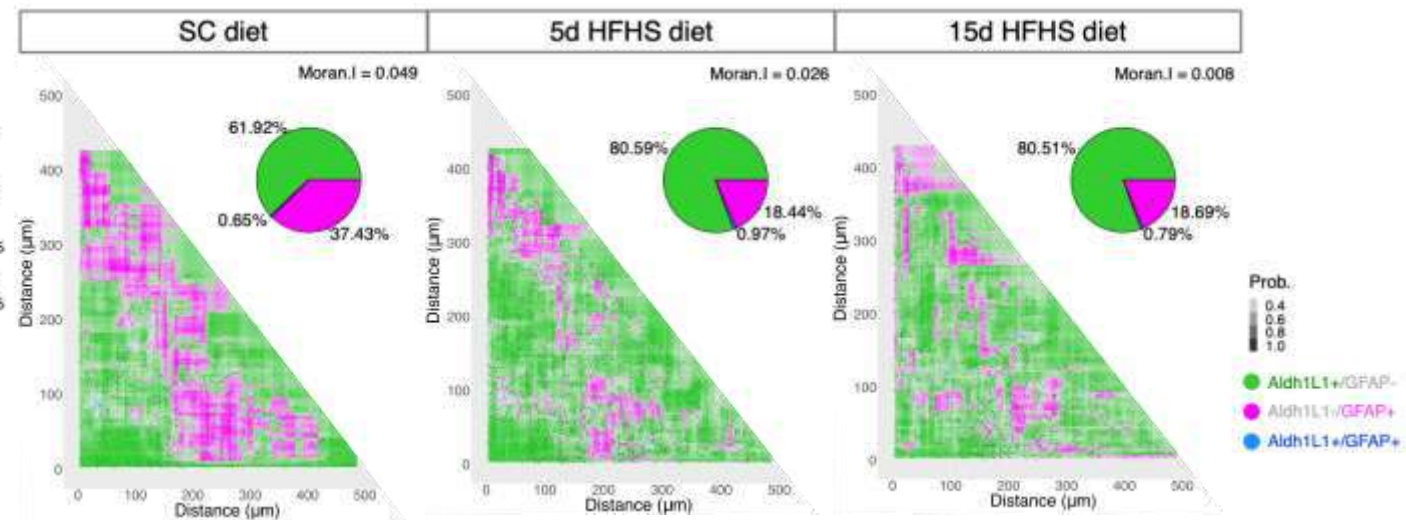
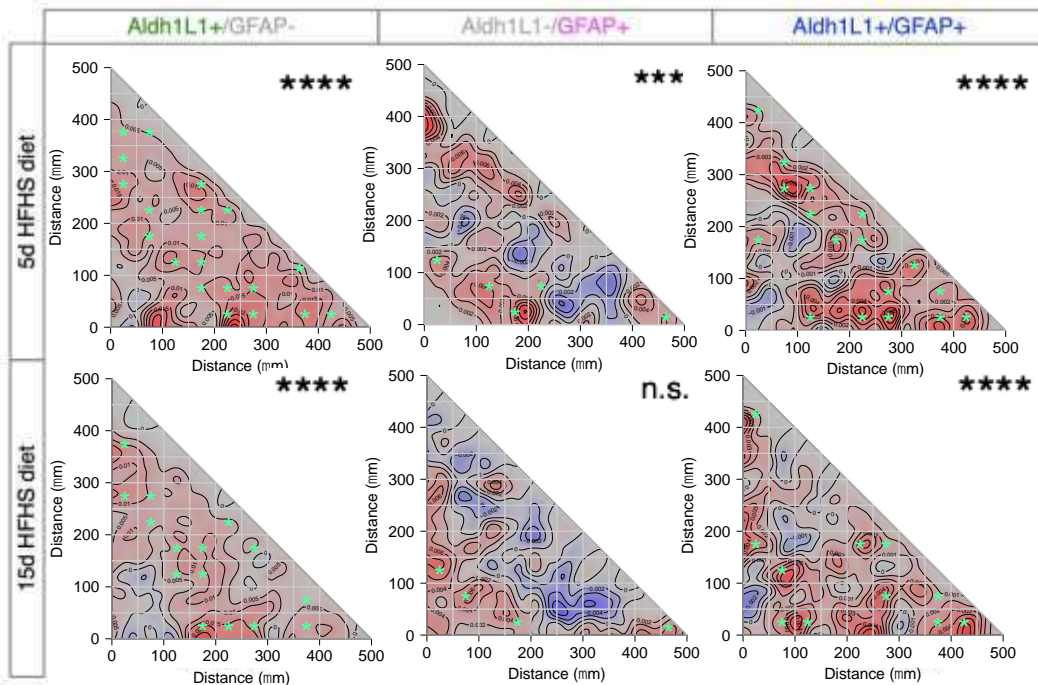
Data provided by L. Lutomska



Astrocyte spatial point patterns analysis



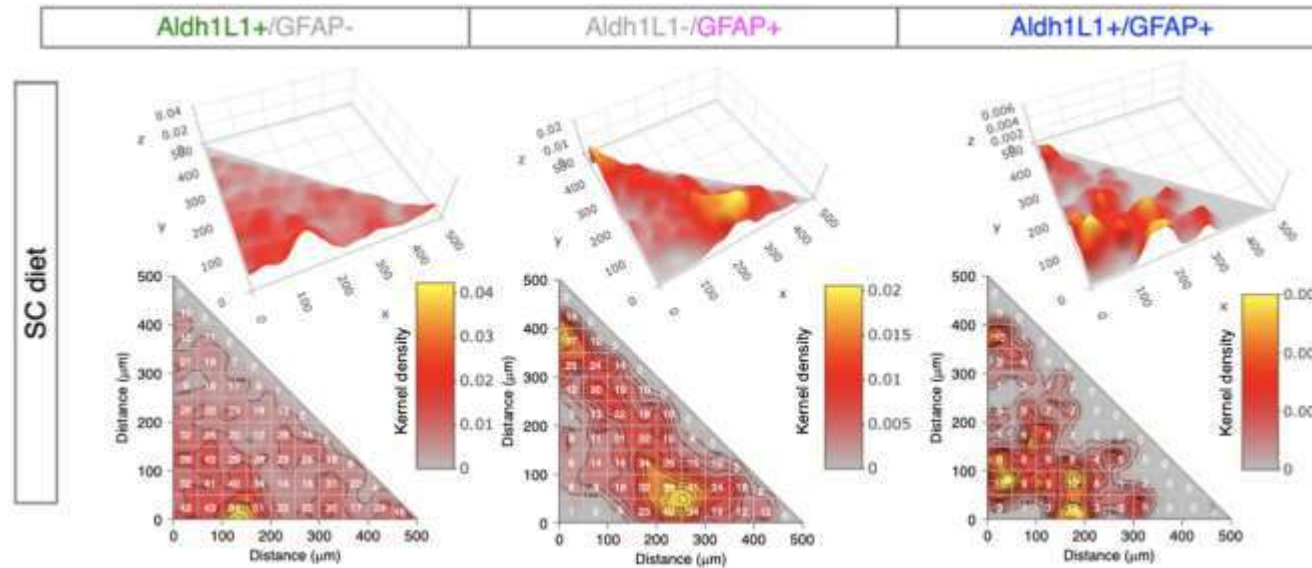
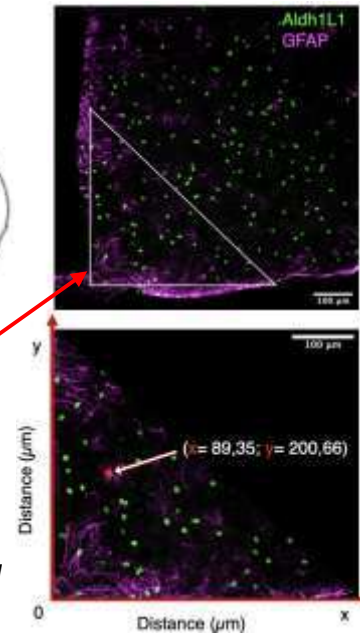
Data provided by L. Lutomska



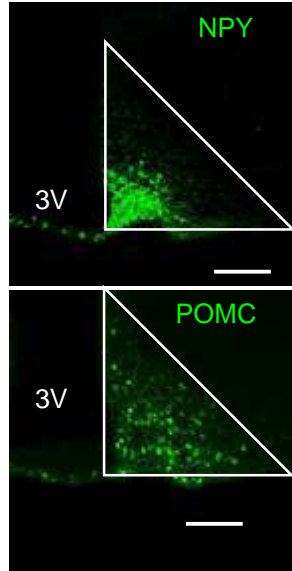
Astrocyte spatial point patterns analysis



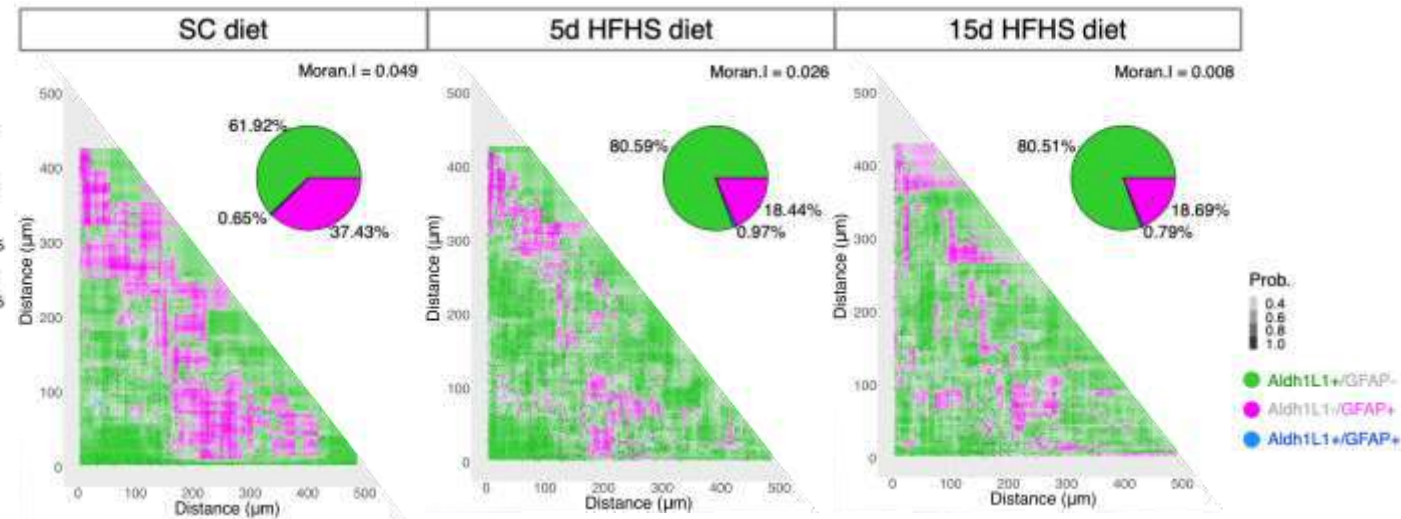
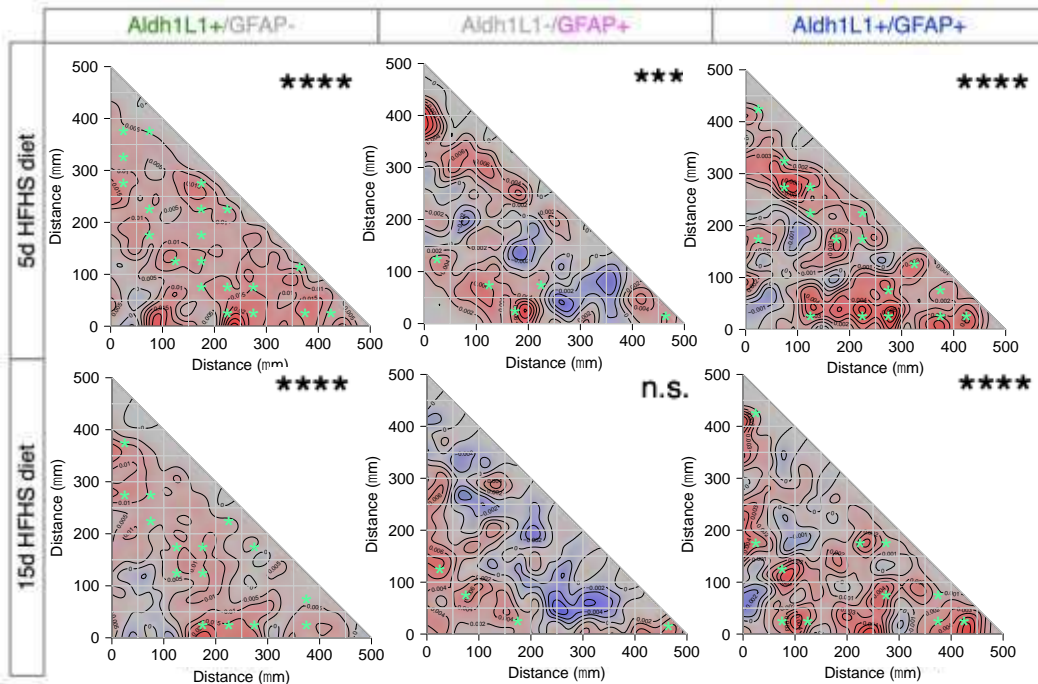
ARC



AgRP neurons
POMC neurons

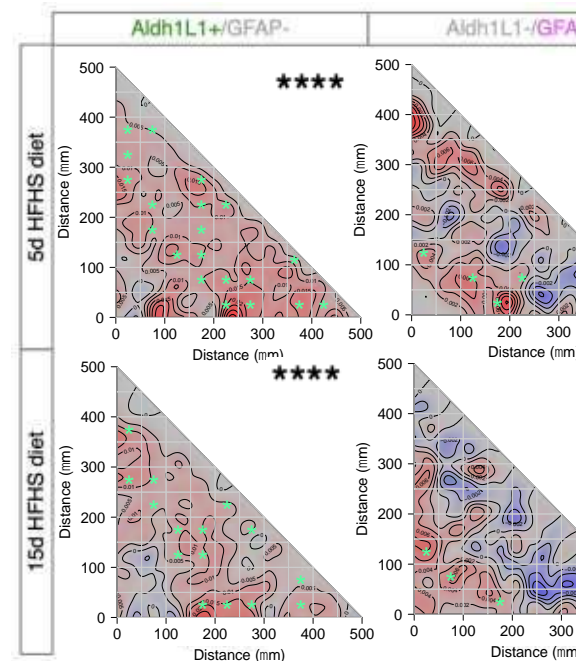
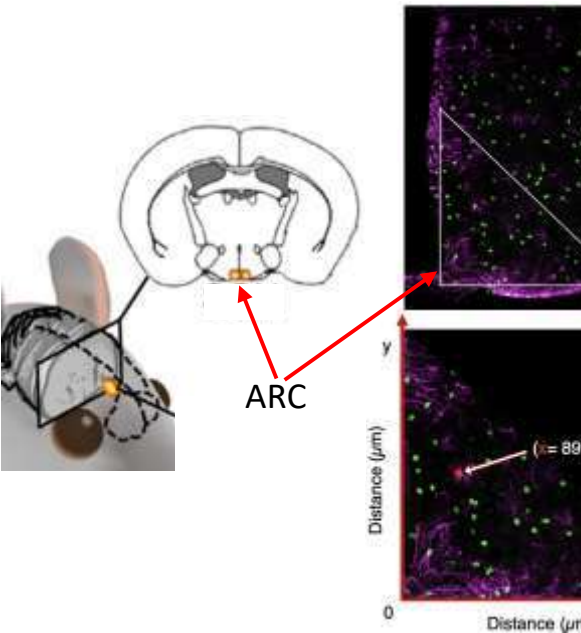


Data provided by I. Gonzales Garcia



Data provided by L. Lutomska

HFHS diet promotes the molecular rearrangements of Aldh1l1 and Gfap astrocytes in a time-dependent manner



Cellular Spatial Point Patterns Analysis

R Shiny App for analysis and visualizing cellular spatial point patterns.

Upload data

Browse...

SPP_data_all.csv

Upload complete

Analysis

density_test_plots

Plot

test_plot

Marker

Colocalization

Diet

Chow

Compare to

HFHS 5 days

Plot

10

☒ Display contours

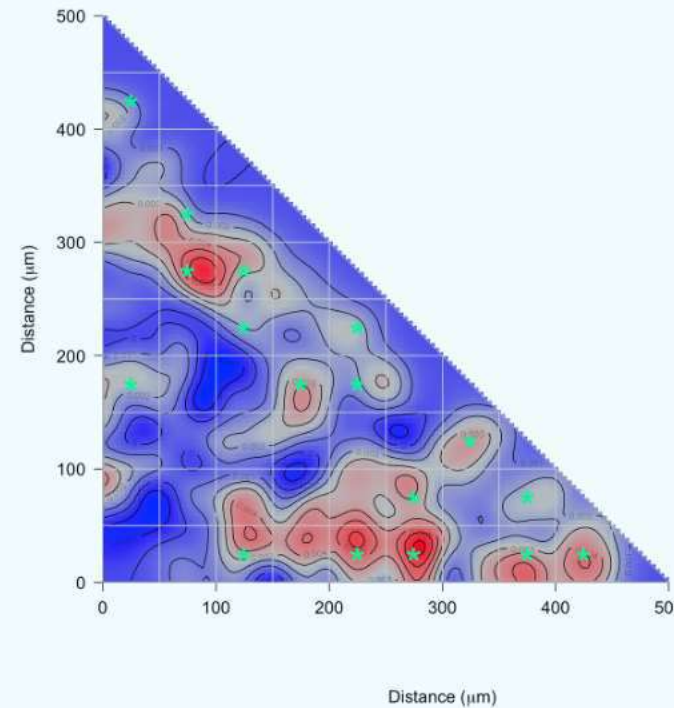
☒ Display a color bar

Run Analysis

Download plot

Figure

Colocalization : Chow vs. HFHS 5 days diet



15d HFHS diet

Moran.I = 0.008



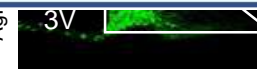
Prob.
0.4
0.6
0.8
1.0

Aldh1L1+GFAP-

Aldh1L1+GFAP+

Aldh1L1+GFAP+

Agf



POI

