

Single Molecule Spatial Imaging

Molecular Feature Selection

Step 1: Select molecular feature type and specific gene or metabolite for spatial visualization.

Step 2: Visualize spatial distribution of selected feature.

Step 3: Identify the top 6 positively and negatively correlated metabolites and genes, ranked by the strength of their correlation with the selected feature.

Feature type:

Gene

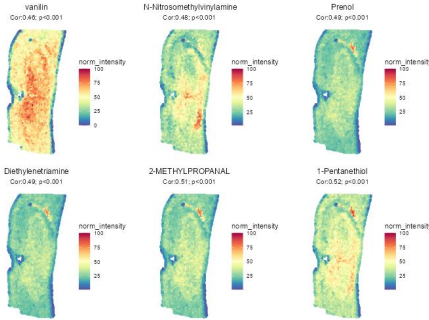
Select feature:

Slc6a11

Top Spatially Co-localized Metabolites

Identify spatially co-varying metabolites:

- Positive correlation may suggest functional association
- Top 6 metabolites by correlation strength

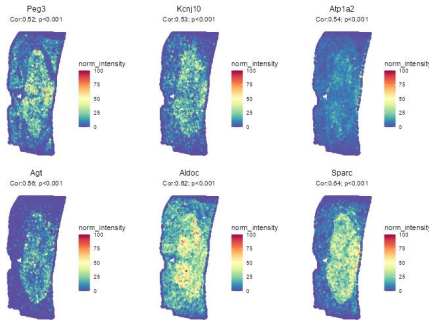


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Top Spatially Co-expressed Genes

Identify spatially co-expressed genes:

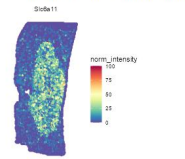
- Positive correlation may suggest functional association
- Top 6 genes by correlation strength



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Spatial Distribution Visualization

- Color gradient: Molecular abundance (red: high, blue: low)

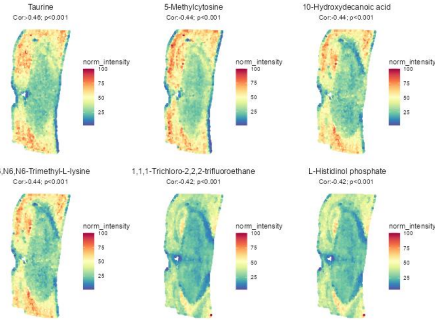


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Top Spatially Anti-correlated Metabolites

Identify spatially anti-correlated metabolites:

- Negative correlation may indicate inhibitory relationships
- Top 6 metabolites by correlation strength

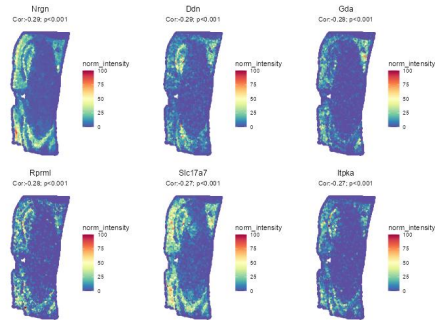


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Top Spatially Anti-expressed Genes

Identify spatially anti-expressed genes:

- Negative correlation may indicate inhibitory relationships
- Top 6 genes by correlation strength



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