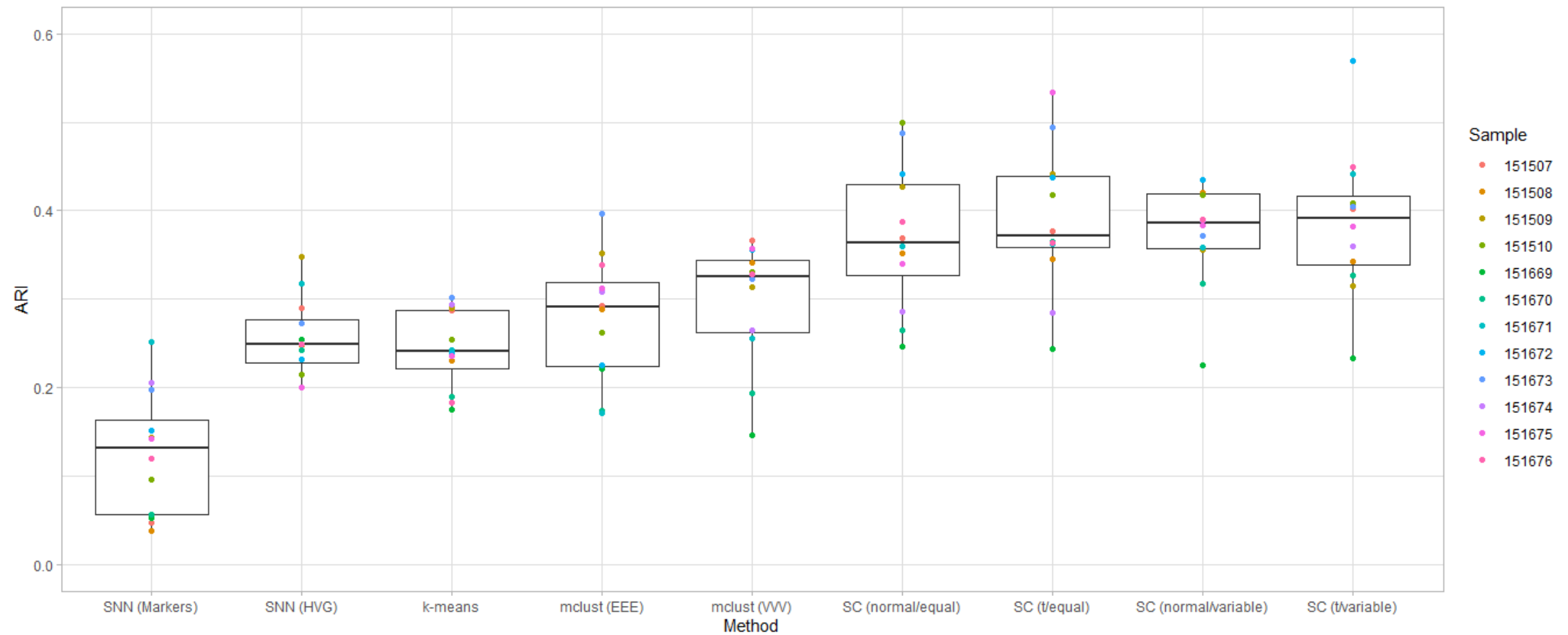


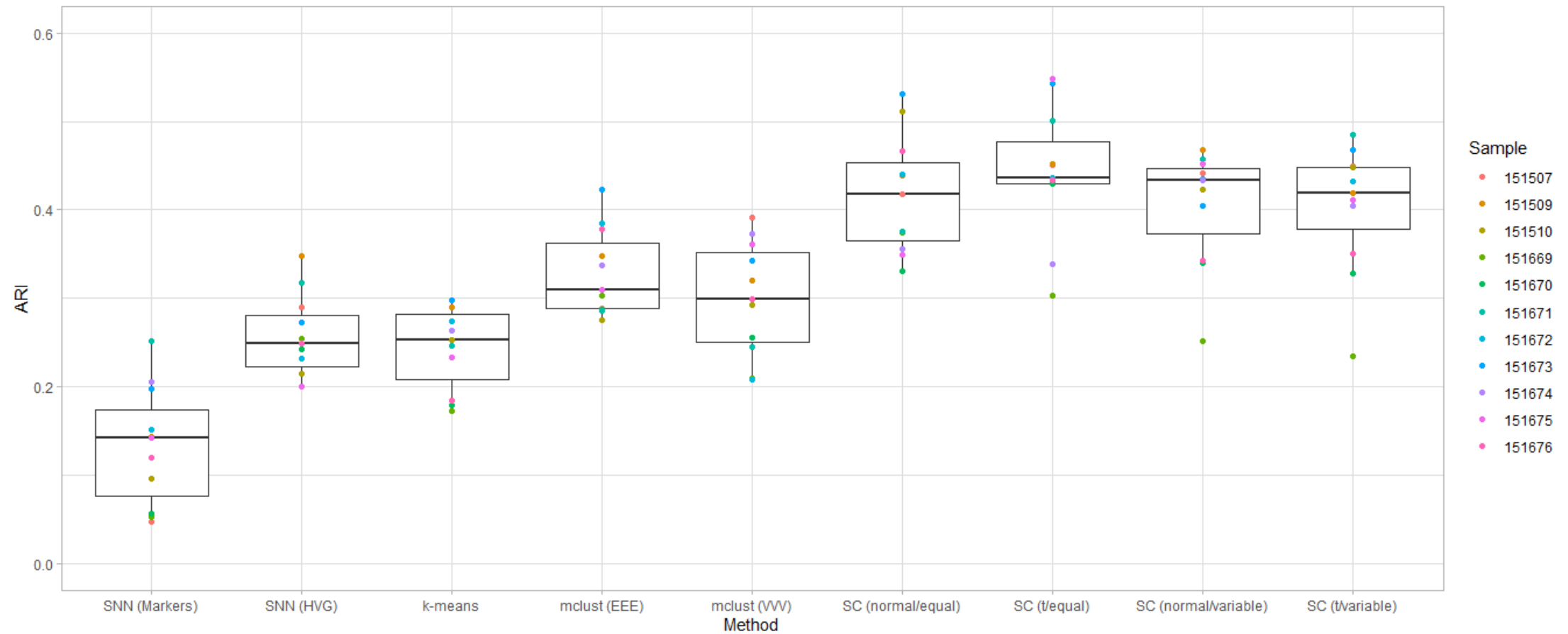
BayesSpace Update

6-5

DLPFC Spatial clustering on 10 PCs



DLPFC Spatial clustering on 15 PCs



Sample 151508

- Spatial clustering with t -distributed errors and variable cluster precision results in an error on iteration 224

```
warning: chol(): given matrix is not symmetric
```

```
Error in iterate_t_vvv(): Probabilities must be finite and non-negative!
```

Giotto workflow

- `createGiottoObject`
 - `raw_exprs = counts(sce)`
 - `spatial_locs = positions`
- `normalizeGiotto`
- `calculateHVG`
- `runPCA`
- `createSpatialNetwork`
 - `maximum_distance_delaunay = 9`
- `binSpect` (**calculate spatially expressed genes**)
- `doHMRF`
 - `k`
 - `dimensions_to_use = 1:10`
 - `betas`
- `viewHMRF`