## scanpy.tl.filter\_rank\_genes\_groups

scanpy.tl.filter\_rank\_genes\_groups(adata, key=None, groupby=None, use\_raw=None, key\_added='rank\_genes\_groups\_filtered', min\_in\_group\_fraction=0.25, min\_fold\_change=1, max\_out\_group\_fraction=0.5, compare\_abs=False)

Filters out genes based on log fold change and fraction of genes expressing the gene within and outside the groupby categories.

See rank\_genes\_groups().

Results are stored in adata.uns[key\_added] (default: 'rank\_genes\_groups\_filtered').

To preserve the original structure of adata.uns['rank\_genes\_groups'], filtered genes are set to NaN.

Parameters:	a

adata: AnnData
key : default: None
groupby : default: None
use_raw : default: None
<pre>key_added : default: 'rank_genes_groups_filtered'</pre>
min_in_group_fraction : default: 0.25
min_fold_change : default: 1
max_out_group_fraction : default: 0.5
compare_abs : default: False
If True, compare absolute values of log fold change with min_fold_change.

Return type:

None

**Returns:** 

: Same output as scanpy.tl.rank\_genes\_groups() but with filtered genes names set to nan

```
>>> import scanpy as sc
>>> adata = sc.datasets.pbmc68k_reduced()
>>> sc.tl.rank_genes_groups(adata, 'bulk_labels', method='wilcoxon')
>>> sc.tl.filter_rank_genes_groups(adata, min_fold_change=3)
>>> # visualize results
>>> sc.pl.rank_genes_groups(adata, key='rank_genes_groups_filtered')
>>> # visualize results using dotplot
>>> sc.pl.rank_genes_groups_dotplot(adata, key='rank_genes_groups_filtered')
```