

scanpy.pp.regress_out

scanpy.pp.regress_out(adata, keys, n_jobs=None, copy=False)

Regress out (mostly) unwanted sources of variation.

Uses simple linear regression. This is inspired by Seurat's `regressOut` function in R [Satija15]. Note that this function tends to overcorrect in certain circumstances as described in [issue 526](#).

Parameters:

adata : `AnnData`

The annotated data matrix.

keys : `Union[str, Sequence[str]]`

Keys for observation annotation on which to regress on.

n_jobs : `Optional[int]` (default: `None`)

Number of jobs for parallel computation. `None` means using `scanpy._settings.ScanpyConfig.n_jobs`.

copy : `bool` (default: `False`)

Determines whether a copy of `adata` is returned.

Return type:

`Optional[AnnData]`

Returns:

: Depending on `copy` returns or updates `adata` with the corrected data matrix.