

# plier

October 25, 2011

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`justPlier` *Implements the PLIER algorithm*

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## Description

Provides a wrapper around Affymetrix's API to provide an implementation of the PLIER algorithm

## Usage

```
justPlier(eset=ReadAffy(), replicate=1:length(eset), get.affinities=FALSE, normalize=TRUE)
```

## Arguments

<code>eset</code>	An AffyBatch object containing the raw data
<code>replicate</code>	A factor containing the replicate structure to use for grouping samples
<code>get.affinities</code>	If TRUE, then return affinities in the <code>description@preprocessing</code> slot of the ExpressionSet object
<code>normalize</code>	If TRUE then apply quantile normalization to the probes before generating expression calls
<code>norm.type</code>	Can be 'separate', 'pmonly', 'mmonly' or 'together'
<code>augmentation</code>	Model parameter
<code>defaultaffinity</code>	Model parameter
<code>defaultconcentration</code>	Model parameter
<code>attenuation</code>	Model parameter
<code>seaconvergence</code>	Model parameter
<code>seaiteration</code>	Model parameter
<code>gmcutoff</code>	Model parameter
<code>probepenalty</code>	Model parameter
<code>concpenalty</code>	Model parameter
<code>usemm</code>	Model parameter

usemodel        Model parameter  
fitaffinity    Model parameter  
plierconvergence  
                  Model parameter  
plieriteration  
                  Model parameter  
dropmax        Model parameter  
lambdalimit   Model parameter  
optimization   Model parameter

### Details

This function is a thin wrapper around the Affymetrix implementation. For more details, including information about the meaning of the different model parameters, please see the plier documentation at [www.affymetrix.com](http://www.affymetrix.com).

### Value

An Expression set containing PLIER generated expression calls

### Author(s)

Crispin J Miller (wrapper), Earl Hubbell (algorithm)

### References

[bioinf.picr.man.ac.uk](http://bioinf.picr.man.ac.uk) [www.affymetrix.com](http://www.affymetrix.com)

### See Also

`normalize.AffyBatch.quantiles`

# Index

\*Topic **misc**  
justPlier, 1

justPlier, 1