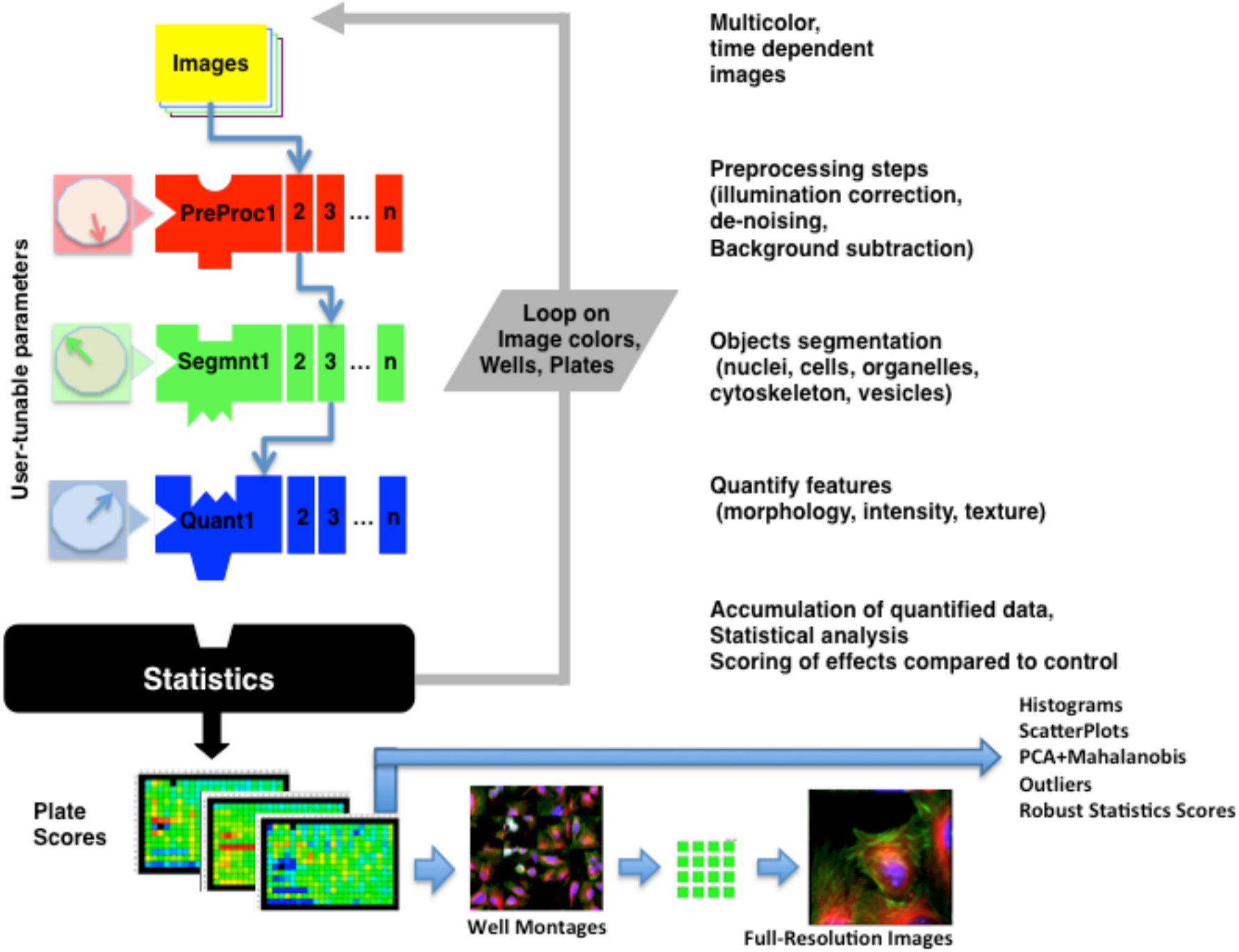
Images
Multicolor,
time dependent
images
PreProc1
2
3
...
n
Preprocessing steps
(illumination correction,
de-noising,
Background subtraction)
User-tunable parameters
Loop on
Image colors,
Wells, Plates
Segmnt1
2
3
...
n
Objects segmentation
(nuclei, cells, organelles,
cytoskeleton, vesicles)
Quant1
2
3
...
n
Quantify features
(morphology, intensity, texture)
Statistics
Accumulation of quantified data,
Statistical analysis
Scoring of effects compared to control
Histograms
ScatterPlots
PCA+Mahalanobis
Outliers
Robust Statistics Scores
Plate
Scores
Well Montages
Full-Resolution Images