-- COMBO-MF Initiated↙

Select mode for COMBO-MF:
1. Intra-Plate Analysis
2. Inter-Plate Analysis
1

---- Intra-Plate Analysis ---

Video Collection path: F:\CUSP9A\Mendeley\1-4\9095

COMBO-Pick Specification: F:\CUSP9A\Mendeley\1-4\M059K_190429_9095.xlsx

Enter hours after drug addition for the 1st recorded time point/frame:
0

Select mode for Intra-Plate Analysis:
1. Run a particular prototype
2. Merge results from several prototypes
1

Prototype path: F:\CUSP9A\Mendeley\1-4\prototypes\s1.mat

Backup does not exist and will be created...

Mode for COMBO-MF: Analysis...

Image Quality Control will be performed...

Enter the number of time points before treatment addition:
1

Detection threshold for matched filter will be calculated...

Enter the number of independent repeats for the cross validation:
2

Enter the number of leaving-out folds for the cross validation:
4

Backup initiated...

Backup completed...

No discrepancy found in the number of frames...

 Blank wells not included in the video collection folder...

Folder creation with the 1 untreated time point started....

1) 1 untreated frame of well 1_B10_1_2019y04m25d_18h00m copied...

2) 1 untreated frame of well 1_B11_1_2019y04m25d_18h00m copied...

3) 1 untreated frame of well 1_B12_1_2019y04m25d_18h00m copied...

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Efthymia Chantzi

21) 1 untreated frame of well 1_B8_1_2019y04m25d_18h00m copied...

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Efthymia Chantzi

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268) 1 untreated frame of well 1_N13_1_2019y04m25d_18h00m copied...

269) 1 untreated frame of well 1_N14_1_2019y04m25d_18h00m copied...

270) 1 untreated frame of well 1_N15_1_2019y04m25d_18h00m copied...

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271) 1 untreated frame of well 1_N16_1_2019y04m25d_18h00m copied...

272) 1 untreated frame of well 1_N17_1_2019y04m25d_18h00m copied...

273) 1 untreated frame of well 1_N18_1_2019y04m25d_18h00m copied...

274) 1 untreated frame of well 1_N19_1_2019y04m25d_18h00m copied...

275) 1 untreated frame of well 1_N20_1_2019y04m25d_18h00m copied...

276) 1 untreated frame of well 1_N21_1_2019y04m25d_18h00m copied...

277) 1 untreated frame of well 1_N22_1_2019y04m25d_18h00m copied...

278) 1 untreated frame of well 1_N23_1_2019y04m25d_18h00m copied...

279) 1 untreated frame of well 1_N2_1_2019y04m25d_18h00m copied...

280) 1 untreated frame of well 1_N3_1_2019y04m25d_18h00m copied...

281) 1 untreated frame of well 1_N4_1_2019y04m25d_18h00m copied...

282) 1 untreated frame of well 1_N5_1_2019y04m25d_18h00m copied...

283) 1 untreated frame of well 1_N6_1_2019y04m25d_18h00m copied...

284) 1 untreated frame of well 1_N7_1_2019y04m25d_18h00m copied...

285) 1 untreated frame of well 1_N8_1_2019y04m25d_18h00m copied...

286) 1 untreated frame of well 1_N9_1_2019y04m25d_18h00m copied...

287) 1 untreated frame of well 1_O10_1_2019y04m25d_18h00m copied...

288) 1 untreated frame of well 1_O11_1_2019y04m25d_18h00m copied...

289) 1 untreated frame of well 1_O12_1_2019y04m25d_18h00m copied...

290) 1 untreated frame of well 1_O13_1_2019y04m25d_18h00m copied...

291) 1 untreated frame of well 1_O14_1_2019y04m25d_18h00m copied...

292) 1 untreated frame of well 1_O15_1_2019y04m25d_18h00m copied...

293) 1 untreated frame of well 1_O16_1_2019y04m25d_18h00m copied...

294) 1 untreated frame of well 1_O17_1_2019y04m25d_18h00m copied...

295) 1 untreated frame of well 1_O18_1_2019y04m25d_18h00m copied...

296) 1 untreated frame of well 1_O19_1_2019y04m25d_18h00m copied...

297) 1 untreated frame of well 1_O20_1_2019y04m25d_18h00m copied...

298) 1 untreated frame of well 1_O21_1_2019y04m25d_18h00m copied...

299) 1 untreated frame of well 1_O22_1_2019y04m25d_18h00m copied...

300) 1 untreated frame of well 1_O23_1_2019y04m25d_18h00m copied...

301) 1 untreated frame of well 1_O2_1_2019y04m25d_18h00m copied...

302) 1 untreated frame of well 1_O3_1_2019y04m25d_18h00m copied...

303) 1 untreated frame of well 1_O4_1_2019y04m25d_18h00m copied...

304) 1 untreated frame of well 1_O5_1_2019y04m25d_18h00m copied...

305) 1 untreated frame of well 1_O6_1_2019y04m25d_18h00m copied...

306) 1 untreated frame of well 1_O7_1_2019y04m25d_18h00m copied...

307) 1 untreated frame of well 1_O8_1_2019y04m25d_18h00m copied...

308) 1 untreated frame of well 1_O9_1_2019y04m25d_18h00m copied...

Folder creation with the 1 untreated time point completed....

Imaged-based assay quality control started...
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 4).

 Extraction of hierarchical histograms started...

Parallel mapreduce execution on the parallel pool:
****
*   MAPREDUCE PROGRESS   *
****
Map   0% Reduce   0%
Map   1% Reduce   0%
Map   2% Reduce   0%
Map   3% Reduce   0%
Map   4% Reduce   0%
Map   5% Reduce   0%
Map   6% Reduce   0%
Map   7% Reduce   0%

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```
Map   8% Reduce    0%
Map   9% Reduce    0%
Map  10% Reduce    0%
Map  11% Reduce    0%
Map  12% Reduce    0%
Map  13% Reduce    0%
Map  14% Reduce    0%
Map  15% Reduce    0%
Map  16% Reduce    0%
Map  17% Reduce    0%
Map  18% Reduce    0%
Map  19% Reduce    0%
Map  20% Reduce    0%
Map  21% Reduce    0%
Map  22% Reduce    0%
Map  23% Reduce    0%
Map  24% Reduce    0%
Map  25% Reduce    0%
Map  26% Reduce    0%
Map  27% Reduce    0%
Map  28% Reduce    0%
Map  29% Reduce    0%
Map  30% Reduce    0%
Map  31% Reduce    0%
Map  32% Reduce    0%
Map  33% Reduce    0%
Map  34% Reduce    0%
Map  35% Reduce    0%
Map  36% Reduce    0%
Map  37% Reduce    0%
Map  38% Reduce    0%
Map  39% Reduce    0%
Map  40% Reduce    0%
Map  41% Reduce    0%
Map  42% Reduce    0%
Map  43% Reduce    0%
Map  44% Reduce    0%
Map  45% Reduce    0%
Map  46% Reduce    0%
Map  47% Reduce    0%
Map  48% Reduce    0%
Map  49% Reduce    0%
Map  50% Reduce    0%
Map  51% Reduce    0%
Map  52% Reduce    0%
Map  53% Reduce    0%
Map  54% Reduce    0%
Map  55% Reduce    0%
Map  56% Reduce    0%
Map  57% Reduce    0%
```

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```
Map   58% Reduce    0%
Map   59% Reduce    0%
Map   60% Reduce    0%
Map   61% Reduce    0%
Map   62% Reduce    0%
Map   63% Reduce    0%
Map   64% Reduce    0%
Map   65% Reduce    0%
Map   66% Reduce    0%
Map   67% Reduce    0%
Map   68% Reduce    0%
Map   69% Reduce    0%
Map   70% Reduce    0%
Map   71% Reduce    0%
Map   72% Reduce    0%
Map   73% Reduce    0%
Map   74% Reduce    0%
Map   75% Reduce    0%
Map   76% Reduce    0%
Map   77% Reduce    0%
Map   78% Reduce    0%
Map   79% Reduce    0%
Map   80% Reduce    0%
Map   81% Reduce    0%
Map   82% Reduce    0%
Map   83% Reduce    0%
Map   84% Reduce    0%
Map   85% Reduce    0%
Map   86% Reduce    0%
Map   87% Reduce    0%
Map   88% Reduce    0%
Map   89% Reduce    0%
Map   90% Reduce    0%
Map   91% Reduce    0%
Map   92% Reduce    0%
Map   93% Reduce    0%
Map   94% Reduce    0%
Map   95% Reduce    0%
Map   96% Reduce    0%
Map   97% Reduce    0%
Map   98% Reduce    0%
Map   99% Reduce    0%
Map  100% Reduce    0%
Map  100% Reduce 100%


Extraction of hierarchical histograms completed...
```

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```
  Time elapsed for processing of wells: 0.00 (hrs) 0.00 (min) 11.60 (sec)


Parallel pool using the 'local' profile is shutting down.



 Extraction of cell confluence started...


Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 4).
Parallel mapreduce execution on the parallel pool:
******************************
*      MAPREDUCE PROGRESS        *
******************************
Map    0% Reduce    0%
Map    1% Reduce    0%
Map    2% Reduce    0%
Map    3% Reduce    0%
Map    4% Reduce    0%
Map    5% Reduce    0%
Map    6% Reduce    0%
Map    7% Reduce    0%
Map    8% Reduce    0%
Map    9% Reduce    0%
Map   10% Reduce    0%
Map   11% Reduce    0%
Map   12% Reduce    0%
Map   13% Reduce    0%
Map   14% Reduce    0%
Map   15% Reduce    0%
Map   16% Reduce    0%
Map   17% Reduce    0%
Map   18% Reduce    0%
Map   19% Reduce    0%
Map   20% Reduce    0%
Map   21% Reduce    0%
Map   22% Reduce    0%
Map   23% Reduce    0%
Map   24% Reduce    0%
Map   25% Reduce    0%
Map   26% Reduce    0%
Map   27% Reduce    0%
Map   28% Reduce    0%
Map   29% Reduce    0%
Map   30% Reduce    0%
Map   31% Reduce    0%
Map   32% Reduce    0%
```

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```
Map   33% Reduce     0%
Map   34% Reduce     0%
Map   35% Reduce     0%
Map   36% Reduce     0%
Map   37% Reduce     0%
Map   38% Reduce     0%
Map   39% Reduce     0%
Map   40% Reduce     0%
Map   41% Reduce     0%
Map   42% Reduce     0%
Map   43% Reduce     0%
Map   44% Reduce     0%
Map   45% Reduce     0%
Map   46% Reduce     0%
Map   47% Reduce     0%
Map   48% Reduce     0%
Map   49% Reduce     0%
Map   50% Reduce     0%
Map   51% Reduce     0%
Map   52% Reduce     0%
Map   53% Reduce     0%
Map   54% Reduce     0%
Map   55% Reduce     0%
Map   56% Reduce     0%
Map   57% Reduce     0%
Map   58% Reduce     0%
Map   59% Reduce     0%
Map   60% Reduce     0%
Map   61% Reduce     0%
Map   62% Reduce     0%
Map   63% Reduce     0%
Map   64% Reduce     0%
Map   65% Reduce     0%
Map   66% Reduce     0%
Map   67% Reduce     0%
Map   68% Reduce     0%
Map   69% Reduce     0%
Map   70% Reduce     0%
Map   71% Reduce     0%
Map   72% Reduce     0%
Map   73% Reduce     0%
Map   74% Reduce     0%
Map   75% Reduce     0%
Map   76% Reduce     0%
Map   77% Reduce     0%
Map   78% Reduce     0%
Map   79% Reduce     0%
Map   80% Reduce     0%
Map   81% Reduce     0%
Map   82% Reduce     0%
```

```
Map  83% Reduce    0%
Map  84% Reduce    0%
Map  85% Reduce    0%
Map  86% Reduce    0%
Map  87% Reduce    0%
Map  88% Reduce    0%
Map  89% Reduce    0%
Map  90% Reduce    0%
Map  91% Reduce    0%
Map  92% Reduce    0%
Map  93% Reduce    0%
Map  94% Reduce    0%
Map  95% Reduce    0%
Map  96% Reduce    0%
Map  97% Reduce    0%
Map  98% Reduce    0%
Map  99% Reduce    0%
Map 100% Reduce    0%
Map 100% Reduce 100%
Parallel pool using the 'local' profile is shutting down.


  Extraction of cell confluence completed...


  Time elapsed for processing of wells: 0.00 (hrs) 0.00 (min) 30.06 (sec)



1 detected outliers before treatment additions...


1) All frames of well 1_L16 removed...

Imaged-based assay quality control completed...

Threshold detection for matched filter started...

---------------------- 2-times Repeated 4-fold Cross Validation for Filter Tuning ↙
----------------------

------------------ Repeat 1 of 2, Leaving out fold 1 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...
```

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Time elapsed for interval optimization: 0.00 (hrs) 0.00 (min) 46.61 (sec)

------------------ Repeat 1 of 2, Leaving out fold 2 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 32.82 (sec)

------------------ Repeat 1 of 2, Leaving out fold 3 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 7.22 (sec)

------------------ Repeat 1 of 2, Leaving out fold 4 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 20.42 (sec)

------------------ Repeat 2 of 2, Leaving out fold 1 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 16.27 (sec)

------------------ Repeat 2 of 2, Leaving out fold 2 of 4 ------------------

Left boundary of convex interval around initial guess must be formed...

Function value at left boundary 1118991.029000: 4.333333
Function value at central point 1381559.330000: 3.666667

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Left boundary of convex interval around initial guess formed...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 32.53 (sec)

------------------ Repeat 2 of 2, Leaving out fold 3 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 7.53 (sec)

------------------ Repeat 2 of 2, Leaving out fold 4 of 4 ------------------

Convex interval around initial guess exists...

Interval optimization started...
Interval optimization completed...

Time elapsed for interval optimization: 0.00 (hrs) 1.00 (min) 6.94 (sec)

Detection threshold from 2-times repeated 4-fold cross validation: 1495671.013851

Threshold detection for matched filter completed...

Median test error: 5

Time elapsed for Matched Filter Tuning: 0.00 (hrs) 10.00 (min) 7.10 (sec)

Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 4).

 Matched filtering started...

Parallel mapreduce execution on the parallel pool:
****

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```
*       MAPREDUCE PROGRESS       *
*********************************
Map    0% Reduce    0%
Map    1% Reduce    0%
Map    2% Reduce    0%
Map    3% Reduce    0%
Map    4% Reduce    0%
Map    5% Reduce    0%
Map    6% Reduce    0%
Map    7% Reduce    0%
Map    8% Reduce    0%
Map    9% Reduce    0%
Map   10% Reduce    0%
Map   11% Reduce    0%
Map   12% Reduce    0%
Map   13% Reduce    0%
Map   14% Reduce    0%
Map   15% Reduce    0%
Map   16% Reduce    0%
Map   17% Reduce    0%
Map   18% Reduce    0%
Map   19% Reduce    0%
Map   20% Reduce    0%
Map   21% Reduce    0%
Map   22% Reduce    0%
Map   23% Reduce    0%
Map   24% Reduce    0%
Map   25% Reduce    0%
Map   26% Reduce    0%
Map   27% Reduce    0%
Map   28% Reduce    0%
Map   29% Reduce    0%
Map   30% Reduce    0%
Map   31% Reduce    0%
Map   32% Reduce    0%
Map   33% Reduce    0%
Map   34% Reduce    0%
Map   35% Reduce    0%
Map   36% Reduce    0%
Map   37% Reduce    0%
Map   38% Reduce    0%
Map   39% Reduce    0%
Map   40% Reduce    0%
Map   41% Reduce    0%
Map   42% Reduce    0%
Map   43% Reduce    0%
Map   44% Reduce    0%
Map   45% Reduce    0%
Map   46% Reduce    0%
Map   47% Reduce    0%
```

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```
Map  48% Reduce   0%
Map  49% Reduce   0%
Map  50% Reduce   0%
Map  51% Reduce   0%
Map  52% Reduce   0%
Map  53% Reduce   0%
Map  54% Reduce   0%
Map  55% Reduce   0%
Map  56% Reduce   0%
Map  57% Reduce   0%
Map  58% Reduce   0%
Map  59% Reduce   0%
Map  60% Reduce   0%
Map  61% Reduce   0%
Map  62% Reduce   0%
Map  63% Reduce   0%
Map  64% Reduce   0%
Map  65% Reduce   0%
Map  66% Reduce   0%
Map  67% Reduce   0%
Map  68% Reduce   0%
Map  69% Reduce   0%
Map  70% Reduce   0%
Map  71% Reduce   0%
Map  72% Reduce   0%
Map  73% Reduce   0%
Map  74% Reduce   0%
Map  75% Reduce   0%
Map  76% Reduce   0%
Map  77% Reduce   0%
Map  78% Reduce   0%
Map  79% Reduce   0%
Map  80% Reduce   0%
Map  81% Reduce   0%
Map  82% Reduce   0%
Map  83% Reduce   0%
Map  84% Reduce   0%
Map  85% Reduce   0%
Map  86% Reduce   0%
Map  87% Reduce   0%
Map  88% Reduce   0%
Map  89% Reduce   0%
Map  90% Reduce   0%
Map  91% Reduce   0%
Map  92% Reduce   0%
Map  93% Reduce   0%
Map  94% Reduce   0%
Map  95% Reduce   0%
Map  96% Reduce   0%
Map  97% Reduce   0%
```

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```
Map  98% Reduce    0%
Map  99% Reduce    0%
Map 100% Reduce    0%
Map 100% Reduce 100%



 Matched filtering completed...



Time elapsed for MapReduce : 0.00 (hrs) 4.00 (min) 47.78 (sec)


Parallel pool using the 'local' profile is shutting down.


Retrieval of object counts for untreated wells started...
Retrieval of object counts for untreated wells completed...


Retrieval of object counts for treated wells started...
Retrieval of object counts for treated wells completed...


Generation of curves with object counts started...
Generation of curves with object counts completed...


Generation of CSV file with object counts started...
Generation of CSV file with object counts completed...


Time elapsed for COMBO-MF: 0.00 (hrs) 17.00 (min) 26.50 (sec)




---------------------------------------------- COMBO-MF Completed↙
----------------------------------------------

>>
```

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