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Computational Medicine, Dept. of Medical Sciences
Signals & Systems, Dept. of Electrical Engineering
Uppsala University, March 2020

----- COMBO-C Initiated -----

Select mode for COMBO-C:

1. Intra-Plate Analysis
2. Inter-Plate Quality Control & Analysis

1

---- Intra-Plate Analysis ---

Video Collection folder: F:\CUSP9A\Mendeley\1-4\9097

Backup does not exist and will be created...

COMBO-Pick Specification: F:\CUSP9A\Mendeley\M059K_190429_9097.xlsx

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

0

Mode for COMBO-C: Analysis...

Image Quality Control will be performed...

Enter the number of time points before treatment addition:

1

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 first 1 time point started....

1) 1 untreated frame of well 1_B10_1_2019y04m29d_18h00m copied...

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2) 1 untreated frame of well 1_B11_1_2019y04m29d_18h00m copied...

3) 1 untreated frame of well 1_B12_1_2019y04m29d_18h00m copied...

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272) 1 untreated frame of well 1_N17_1_2019y04m29d_18h00m copied...

273) 1 untreated frame of well 1_N18_1_2019y04m29d_18h00m copied...

274) 1 untreated frame of well 1_N19_1_2019y04m29d_18h00m copied...

275) 1 untreated frame of well 1_N20_1_2019y04m29d_18h00m copied...

276) 1 untreated frame of well 1_N21_1_2019y04m29d_18h00m copied...

Ethymia Chantzi

277) 1 untreated frame of well 1_N22_1_2019y04m29d_18h00m copied...

278) 1 untreated frame of well 1_N23_1_2019y04m29d_18h00m copied...

279) 1 untreated frame of well 1_N2_1_2019y04m29d_18h00m copied...

280) 1 untreated frame of well 1_N3_1_2019y04m29d_18h00m copied...

281) 1 untreated frame of well 1_N4_1_2019y04m29d_18h00m copied...

282) 1 untreated frame of well 1_N5_1_2019y04m29d_18h00m copied...

283) 1 untreated frame of well 1_N6_1_2019y04m29d_18h00m copied...

284) 1 untreated frame of well 1_N7_1_2019y04m29d_18h00m copied...

285) 1 untreated frame of well 1_N8_1_2019y04m29d_18h00m copied...

286) 1 untreated frame of well 1_N9_1_2019y04m29d_18h00m copied...

287) 1 untreated frame of well 1_O10_1_2019y04m29d_18h00m copied...

288) 1 untreated frame of well 1_O11_1_2019y04m29d_18h00m copied...

289) 1 untreated frame of well 1_O12_1_2019y04m29d_18h00m copied...

290) 1 untreated frame of well 1_O13_1_2019y04m29d_18h00m copied...

291) 1 untreated frame of well 1_O14_1_2019y04m29d_18h00m copied...

292) 1 untreated frame of well 1_O15_1_2019y04m29d_18h00m copied...

293) 1 untreated frame of well 1_O16_1_2019y04m29d_18h00m copied...

294) 1 untreated frame of well 1_O17_1_2019y04m29d_18h00m copied...

295) 1 untreated frame of well 1_O18_1_2019y04m29d_18h00m copied...

296) 1 untreated frame of well 1_O19_1_2019y04m29d_18h00m copied...

297) 1 untreated frame of well 1_O20_1_2019y04m29d_18h00m copied...

298) 1 untreated frame of well 1_O21_1_2019y04m29d_18h00m copied...

299) 1 untreated frame of well 1_O22_1_2019y04m29d_18h00m copied...

300) 1 untreated frame of well 1_O23_1_2019y04m29d_18h00m copied...

301) 1 untreated frame of well 1_O2_1_2019y04m29d_18h00m copied...

```
302) 1 untreated frame of well 1_03_1_2019y04m29d_18h00m copied...
303) 1 untreated frame of well 1_04_1_2019y04m29d_18h00m copied...
304) 1 untreated frame of well 1_05_1_2019y04m29d_18h00m copied...
305) 1 untreated frame of well 1_06_1_2019y04m29d_18h00m copied...
306) 1 untreated frame of well 1_07_1_2019y04m29d_18h00m copied...
307) 1 untreated frame of well 1_08_1_2019y04m29d_18h00m copied...
308) 1 untreated frame of well 1_09_1_2019y04m29d_18h00m copied...
```

Folder creation with the first 1 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%
Map	8%	Reduce	0%
Map	9%	Reduce	0%
Map	10%	Reduce	0%
Map	11%	Reduce	0%
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Map	15%	Reduce	0%
Map	16%	Reduce	0%
Map	17%	Reduce	0%
Map	18%	Reduce	0%
Map	19%	Reduce	0%
Map	20%	Reduce	0%

Elthymia Chantzi

Map	21%	Reduce	0%
Map	22%	Reduce	0%
Map	23%	Reduce	0%
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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%
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Map	66%	Reduce	0%
Map	67%	Reduce	0%
Map	68%	Reduce	0%
Map	69%	Reduce	0%
Map	70%	Reduce	0%

```
Map 71% Reduce 0%
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Map 79% Reduce 0%
Map 80% Reduce 0%
Map 81% Reduce 0%
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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...

Time elapsed for processing of wells: 0.00 (hrs) 0.00 (min) 11.88 (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).

Efthymia Chantzi

Parallel mapreduce execution on the parallel pool:

* MAPREDUCE PROGRESS *

Map	0%	Reduce	0%
Map	1%	Reduce	0%
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Map	3%	Reduce	0%
Map	4%	Reduce	0%
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Map	26%	Reduce	0%
Map	27%	Reduce	0%
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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) 31.31 (sec)

5 detected outliers before treatment additions...

1) All frames of well 1_M23 removed...

2) All frames of well 1_B2 removed...

3) All frames of well 1_O15 removed...

4) All frames of well 1_M21 removed...

5) All frames of well 1_O11 removed...

Imaged-based assay quality control completed...

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%
```

Efthymia Chantzi

Map	5%	Reduce	0%
Map	6%	Reduce	0%
Map	7%	Reduce	0%
Map	8%	Reduce	0%
Map	9%	Reduce	0%
Map	10%	Reduce	0%
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Map	13%	Reduce	0%
Map	14%	Reduce	0%
Map	15%	Reduce	0%
Map	16%	Reduce	0%
Map	17%	Reduce	0%
Map	18%	Reduce	0%
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Map	25%	Reduce	0%
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Map	27%	Reduce	0%
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Map	30%	Reduce	0%
Map	31%	Reduce	0%
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Map	47%	Reduce	0%
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Map 55% Reduce 0%
Map 56% Reduce 0%
Map 57% Reduce 0%
Map 58% Reduce 0%
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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%
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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.
```

Ethymia Chantzi

Extraction of cell confluence completed...

Time elapsed for processing of wells: 0.00 (hrs) 1.00 (min) 34.00 (sec)

Retrieval of cell confluence for untreated wells started...

Retrieval of cell confluence for untreated wells completed...

Retrieval of cell confluence for treated wells started...

Retrieval of cell confluence for treated wells completed...

Generation of growth curves started...

Generation of growth curves completed...

Generation of CSV file with cell confluence values started...

Generation of CSV file with cell confluence values completed...

Time elapsed for COMBO-C: 0.00 (hrs) 3.00 (min) 32.74 (sec)

----- COMBO-C Completed✓

>>