

# UCLA O SPF

## Cecum vs PC

Permutation: free

Number of permutations: 0

Terms added sequentially (first to last)

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
Sequencing_Run	2	35.110	17.5550	28.183	0.17802	0.0011 **
Line	3	91.680	30.5599	49.061	0.46485	9.999e-05 ***
Sex	1	0.138	0.1380	0.222	0.00070	0.9803
Site	1	15.480	15.4797	24.851	0.07849	9.999e-05 ***
Residuals	88	54.815	0.6229		0.27793	9.999e-05 ***
Total	95	197.222			1.00000	

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## PC vs DC

Permutation: free

Number of permutations: 0

Terms added sequentially (first to last)

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
Sequencing_Run	2	13.106	6.553	7.304	0.07020	0.0481 *
Line	3	64.196	21.399	23.852	0.34387	9.999e-05 ***
Sex	1	0.873	0.873	0.974	0.00468	0.7519
Site	1	34.946	34.946	38.953	0.18719	9.999e-05 ***
Residuals	82	73.566	0.897		0.39406	9.999e-05 ***
Total	89	186.687			1.00000	

---

Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

## Cecum vs DC

Permutation: free

Number of permutations: 0

Terms added sequentially (first to last)

```

      Df SumsOfSqs MeanSqs F.Model      R2      Pr(>F)
Sequencing_Run  2    36.565 18.2824 22.8004 0.19488    0.0003 ***
Line            3    68.373 22.7909 28.4231 0.36441 9.999e-05 ***
Sex             1     0.367  0.3666  0.4572 0.00195    0.9243
Site            1    16.572 16.5720 20.6673 0.08832 9.999e-05 ***
Residuals       82    65.751  0.8018          0.35044 9.999e-05 ***
Total           89   187.627          1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

## UCLA V SPF

Cecum vs PC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model      R2      Pr(>F)
Sequencing_Run  1    29.741 29.7410 24.1868 0.31428 9.999e-05 ***
Sex             1     0.269  0.2689  0.2187 0.00284    0.9258
Site            1    11.749 11.7491  9.5549 0.12415 9.999e-05 ***
Residuals       43    52.874  1.2296          0.55873 9.999e-05 ***
Total           46    94.634          1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cecum vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model      R2      Pr(>F)
Sequencing_Run  1     9.447  9.4465  6.5193 0.10148    0.0106 *
Sex             1     1.224  1.2240  0.8448 0.01315    0.6695
Site            1    21.554 21.5541 14.8751 0.23156 9.999e-05 ***
Residuals       42    60.858  1.4490          0.65381  0.0002 ***
Total           45    93.083          1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

PC vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model    R2    Pr(>F)
Sequencing_Run  1    18.423 18.4234 16.0533 0.21184  0.0012 **
Sex             1     1.893  1.8929  1.6494 0.02177  0.4656
Site           1    21.896 21.8957 19.0790 0.25176 9.999e-05 ***
Residuals      39    44.758  1.1476          0.51464 9.999e-05 ***
Total         42    86.970          1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

## CS SPF

### Cecum vs PC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model    R2    Pr(>F)
Sequencing_Run  1    14.316 14.3163 17.4472 0.44546 0.008899 **
Sex             1     7.913  7.9134  9.6440 0.24623 0.191281
Site           1     0.062  0.0622  0.0758 0.00194 0.581642
Residuals      12     9.847  0.8206          0.30638 0.006399 **
Total         15    32.139          1.00000
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

### Cecum vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model    R2    Pr(>F)
Sequencing_Run  1    13.820 13.8198 13.961 0.43003 9.999e-05 ***
Sex             1     3.212  3.2121  3.245 0.09995  0.5052
Site           1     3.227  3.2269  3.260 0.10041  0.0141 *
Residuals      12    11.878  0.9899          0.36961  0.0038 **
Total         15    32.137          1.00000

```

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

## PC vs DC

```
Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)
```

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
Sequencing_Run	1	13.487	13.4873	13.0959	0.42008	9.999e-05 ***
Sex	1	4.672	4.6718	4.5362	0.14551	0.36266
Site	1	1.589	1.5888	1.5427	0.04949	0.07399 .
Residuals	12	12.359	1.0299		0.38493	0.00500 **
Total	15	32.107			1.00000	

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

## HUM Gavage

### Cecum vs PC

```
Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)
```

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
Sequencing_Run	1	12.602	12.6015	12.1464	0.36524	0.0293 *
Sex	1	7.369	7.3691	7.1030	0.21359	0.1316
Site	1	1.044	1.0439	1.0062	0.03026	0.2433
Residuals	13	13.487	1.0375		0.39091	0.0036 **
Total	16	34.502			1.00000	

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

### Cecum vs DC

```
Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)
```

	Df	SumsOfSqs	MeanSqs	F.Model	R2	Pr(>F)
--	----	-----------	---------	---------	----	--------

```

Sequencing_Run 2    10.2079  5.1040  5.5572  0.33185  0.172883
Sex             1    10.5949 10.5949 11.5359  0.34443  0.015798 *
Site           1     0.7735  0.7735  0.8422  0.02515  0.681232
Residuals      10     9.1843  0.9184          0.29857  0.006099 **
Total          14    30.7607          1.00000

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

PC vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

              Df SumsOfSqs MeanSqs F.Model    R2 Pr(>F)
Sequencing_Run 2     8.1857  4.0929  4.1707 0.28237 0.2935
Sex             1    11.2065 11.2065 11.4196 0.38658 0.0016 **
Site           1     0.7646  0.7646  0.7791 0.02637 0.7318
Residuals      9     8.8320  0.9813          0.30467 0.0104 *
Total          13    28.9889          1.00000

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

## SPF Gavage

Cecum vs PC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

              Df SumsOfSqs MeanSqs F.Model    R2 Pr(>F)
Sequencing_Run 1    10.605 10.6047  6.1503 0.28583 0.05999 .
Sex             1     2.169  2.1692  1.2580 0.05847 0.63324
Site           1     0.187  0.1874  0.1087 0.00505 0.68013
Residuals      14    24.140  1.7243          0.65065 0.18298
Total          17    37.101          1.00000

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

Cecum vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model    R2 Pr(>F)
Sequencing_Run  2      9.022  4.5109  3.2220 0.25049 0.45975
Sex              1      9.762  9.7622  6.9728 0.27105 0.07309 .
Site             1      0.431  0.4313  0.3080 0.01197 0.42776
Residuals       12     16.801  1.4000          0.46648 0.10519
Total           16     36.016          1.00000

---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

PC vs DC

```

Permutation: free
Number of permutations: 0

Terms added sequentially (first to last)

      Df SumsOfSqs MeanSqs F.Model    R2 Pr(>F)
Sequencing_Run  2     11.797  5.8984  3.6288 0.33457 0.2065
Sex              1      3.769  3.7692  2.3189 0.10690 0.4498
Site             1      0.188  0.1877  0.1155 0.00532 0.7835
Residuals       12     19.505  1.6255          0.55320 0.2608
Total           16     35.259          1.00000

```