Mass Loss Ratio Over Time
By Location

C1

C6

C8

C1
$y = 0.8607x^{-0.261}$
$R^2 = 0.9722$

C6
$y = 0.834x^{-0.239}$
$R^2 = 0.9646$
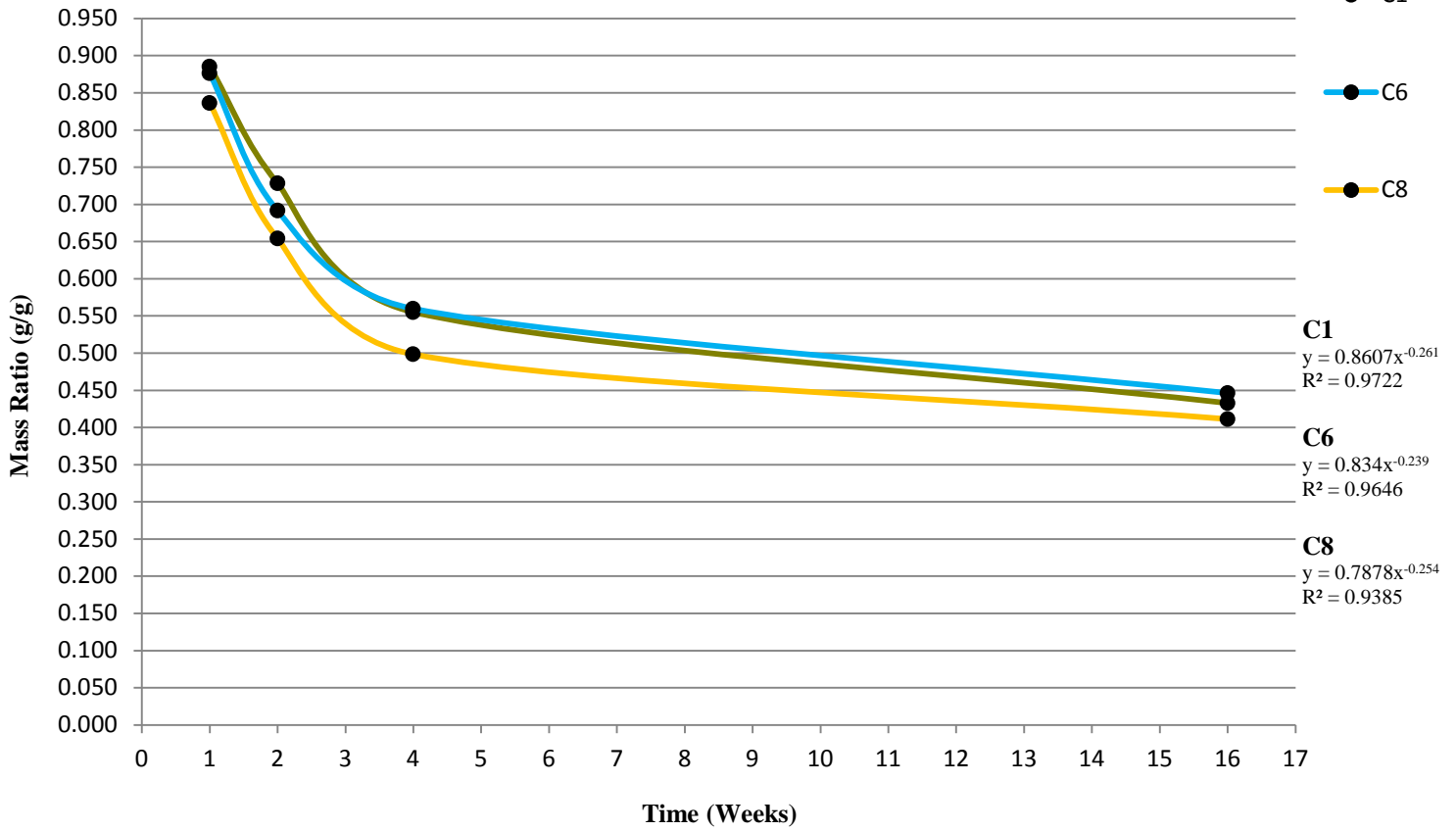
C8
$y = 0.7878x^{-0.254}$
$R^2 = 0.9385$

Mass Ratio (g/g)

Time (Weeks)

One-way ANOVA: Mass (g) versus Treatment (1 week)

```
Method

Null hypothesis         All means are equal
Alternative hypothesis  At least one mean is different
Significance level      α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor    Levels  Values
Treat 1        5  Ca, Con, N, NP, P


Analysis of Variance

Source    DF   Adj SS    Adj MS  F-Value  P-Value
Treat 1    4  0.01179  0.002948     0.58    0.675
Error     55  0.27742  0.005044
Total     59  0.28922


Means

Treat 1   N    Mean   StDev        95% CI
Ca       12  1.6717  0.0641  (1.6306, 1.7128)
Con      12  1.6525  0.0890  (1.6114, 1.6936)
N        12  1.6433  0.0744  (1.6022, 1.6844)
NP       12  1.6333  0.0634  (1.5922, 1.6744)
P        12  1.6350  0.0602  (1.5939, 1.6761)

Pooled StDev = 0.0710218
```

One-way ANOVA: Mass (g) versus Treatment (2 week)

```
Method

Null hypothesis         All means are equal
Alternative hypothesis  At least one mean is different
Significance level      α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor   Levels  Values
Treat 2       5  Ca, Con, N, NP, P


Analysis of Variance

Source   DF  Adj SS    Adj MS  F-Value  P-Value
Treat 2   4  0.02493  0.006233     0.71    0.587
Error    55  0.48077  0.008741
Total    59  0.50570


Means

Treat 2   N    Mean   StDev        95% CI
Ca       12  1.3392  0.0722  (1.2851, 1.3933)
Con      12  1.3308  0.1104  (1.2767, 1.3849)
N        12  1.2800  0.0861  (1.2259, 1.3341)
NP       12  1.3142  0.0635  (1.2601, 1.3683)
P        12  1.3108  0.1219  (1.2567, 1.3649)

Pooled StDev = 0.0934944
```

One-way ANOVA: Mass (g) versus Treatment (4 week)

```
Method

Null hypothesis          All means are equal
Alternative hypothesis   At least one mean is different
Significance level       α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor    Levels  Values
Treat 4        5  Ca, Con, N, NP, P


Analysis of Variance

Source   DF  Adj SS    Adj MS   F-Value  P-Value
Treat 4   4  0.05016   0.012540    1.44    0.233
Error    55  0.47926   0.008714
Total    59  0.52942


Means

Treat 4   N    Mean    StDev        95% CI
Ca       12  1.0758   0.1212   (1.0218, 1.1298)
Con      12  1.0308   0.0918   (0.9768, 1.0848)
N        12  0.9992   0.0581   (0.9452, 1.0532)
NP       12  0.9992   0.0483   (0.9452, 1.0532)
P        12  1.0092   0.1215   (0.9552, 1.0632)

Pooled StDev = 0.0933477
```

One-way ANOVA: Mass (g) versus Treatment (16 week)

```
Method

Null hypothesis          All means are equal
Alternative hypothesis  At least one mean is different
Significance level       α = 0.05
Rows unused              5

Equal variances were assumed for the analysis.


Factor Information

Factor      Levels  Values
Treat 16        5   Ca, Con, N, NP, P


Analysis of Variance

Source     DF   Adj SS    Adj MS  F-Value  P-Value
Treat 16    4  0.02172  0.005429     0.94    0.448
Error      50  0.28830  0.005766
Total      54  0.31002


Means

Treat
16       N    Mean    StDev        95% CI
Ca      11  0.8555  0.0965  (0.8095, 0.9014)
Con     11  0.8191  0.0386  (0.7731, 0.8651)
N       12  0.7992  0.0658  (0.7551, 0.8432)
NP      12  0.8125  0.0828  (0.7685, 0.8565)
P        9  0.8044  0.0846  (0.7536, 0.8553)

Pooled StDev = 0.0759345
```

One-way ANOVA: Mass (g) versus Site (1 week)

```
Method

Null hypothesis         All means are equal
Alternative hypothesis  At least one mean is different
Significance level      α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor  Levels  Values
Site         3  C1, C6, C8


Analysis of Variance

Source  DF   Adj SS    Adj MS  F-Value  P-Value
Site     2  0.09770  0.048852    14.54    0.000
Error   57  0.19151  0.003360
Total   59  0.28922


Means

Site   N     Mean    StDev        95% CI
C1    20   1.6840   0.0660  ( 1.6580,  1.7100)
C6    20  1.66650  0.03937  (1.64055, 1.69245)
C8    20   1.5910   0.0646  ( 1.5650,  1.6170)

Pooled StDev = 0.0579648
```

One-way ANOVA: Mass (g) versus Site (2 week)

```
Method

Null hypothesis         All means are equal
Alternative hypothesis  At least one mean is different
Significance level      α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor  Levels  Values
Site 2       3  C1, C6, C8


Analysis of Variance

Source  DF  Adj SS    Adj MS  F-Value  P-Value
Site 2   2  0.2002  0.100115    18.68    0.000
Error   57  0.3055  0.005359
Total   59  0.5057


Means

Site 2   N    Mean   StDev        95% CI
C1      20  1.3855  0.0699  (1.3527, 1.4183)
C6      20  1.3155  0.0760  (1.2827, 1.3483)
C8      20  1.2440  0.0736  (1.2112, 1.2768)

Pooled StDev = 0.0732060
```

One-way ANOVA: Mass (g) versus Site (4 week)

```
Method

Null hypothesis          All means are equal
Alternative hypothesis   At least one mean is different
Significance level       α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor  Levels  Values
Site 4       3  C1, C6, C8


Analysis of Variance

Source  DF  Adj SS    Adj MS  F-Value  P-Value
Site 4   2  0.1687  0.084362    13.33    0.000
Error   57  0.3607  0.006328
Total   59  0.5294


Means

Site 4   N    Mean    StDev       95% CI
C1      20  1.0560  0.1097  (1.0204, 1.0916)
C6      20  1.0645  0.0589  (1.0289, 1.1001)
C8      20  0.9480  0.0591  (0.9124, 0.9836)

Pooled StDev = 0.0795486
```

One-way ANOVA: Mass (g) versus Site (16 week)

```
Method

Null hypothesis        All means are equal
Alternative hypothesis  At least one mean is different
Significance level      α = 0.05

Equal variances were assumed for the analysis.


Factor Information

Factor    Levels  Values
Site 16        3  C1, C6, C8


Analysis of Variance

Source   DF   Adj SS    Adj MS   F-Value  P-Value
Site 16   2  0.04072  0.020359      3.93    0.026
Error    52  0.26930  0.005179
Total    54  0.31002


Means

Site
16    N   Mean   StDev       95% CI
C1   19  0.8232  0.0702  (0.7900, 0.8563)
C6   18  0.8489  0.0641  (0.8149, 0.8829)
C8   18  0.7822  0.0808  (0.7482, 0.8163)

Pooled StDev = 0.0719641
```