

Table S1. One-way ANOVA table with the biomass dry weight as the dependent variable.

| Source                          | Sum of Squares | Degree of Freedom | Mean Square | F      | p     |
|---------------------------------|----------------|-------------------|-------------|--------|-------|
| Corrected Model                 | 1386516        | 8                 | 173314      | 2.23   | 0.029 |
| Intercept                       | 18765164       | 1                 | 18765164    | 241.63 | 0.000 |
| Microalgal species              | 1206152        | 2                 | 603076      | 7.77   | 0.001 |
| N-conc.                         | 62844          | 2                 | 31422       | 0.41   | 0.668 |
| Microalgal species<br>* N-conc. | 117519         | 4                 | 29380       | 0.38   | 0.824 |
| Error                           | 9785260        | 126               | 77661       |        |       |
| Total                           | 29936939       | 135               |             |        |       |
| Corrected Total                 | 11171775       | 134               |             |        |       |

Table S2. Result of post hoc test with the biomass dry weight as the dependent variable.

| (I) Microalgal species       | (J) Microalgal species       | Mean Difference (I-J) | Standard Error | p-value | 95% Confidence Interval |             |
|------------------------------|------------------------------|-----------------------|----------------|---------|-------------------------|-------------|
|                              |                              |                       |                |         | Lower Bound             | Upper Bound |
| <i>Chlorella emersonii</i>   | <i>Botryococcus braunii</i>  | 228.7*                | 58.8           | 0.001*  | 83.2                    | 374.2       |
|                              | <i>Chlorella sorokiniana</i> | 145.6*                | 58.8           | 0.050*  | 0.1                     | 291.2       |
| <i>Botryococcus braunii</i>  | <i>Chlorella emersonii</i>   | -228.7*               | 58.8           | 0.001*  | -374.2                  | -83.2       |
|                              | <i>Chlorella sorokiniana</i> | -83.0                 | 58.8           | 0.371   | -228.6                  | 62.5        |
| <i>Chlorella sorokiniana</i> | <i>Chlorella emersonii</i>   | -145.6*               | 58.8           | 0.050*  | -291.2                  | -0.1        |
|                              | <i>Botryococcus braunii</i>  | 83.0                  | 58.8           | 0.371   | -62.5                   | 228.6       |

\* The mean difference is significant at the .05 level.