Supplementary material about ANOVA statistics for:

Characteristics of bacterial communities in cyanobacteria-blooming aquaculture wastewater influenced by the phytoremediation with [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water)

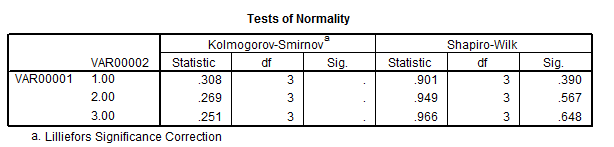
# 1. The difference in the relative abundance of ten major bacterial phyla between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments.

**(1) The difference in the relative abundance of phylum OD1 between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

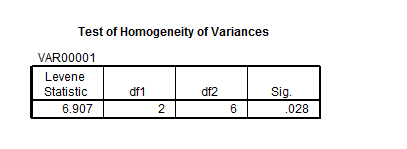
Software: SPSS 13.0

VAR00001= The relative abundance of phylum OD1

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution. 

Levene statistic result show that homogeneity of variances assumption is not met.

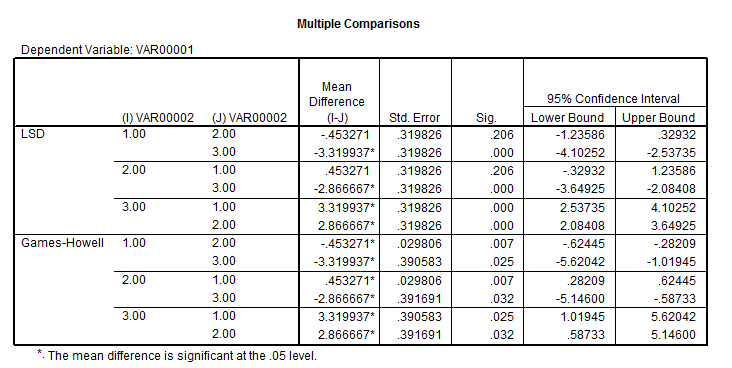


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of Games-Howell is adopted. Differences are considered significant at *P < 0.05*.



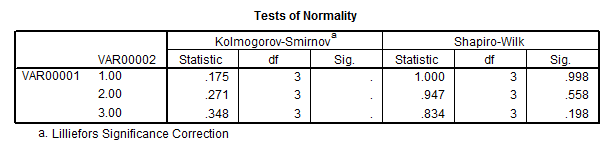
**(2) The difference in the relative abundance of phylum *Proteobacteria* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

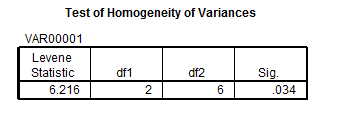
VAR00001= The relative abundance of phylum *Proteobacteria*

VAR00002= Different group (1: C/T 0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is not met.

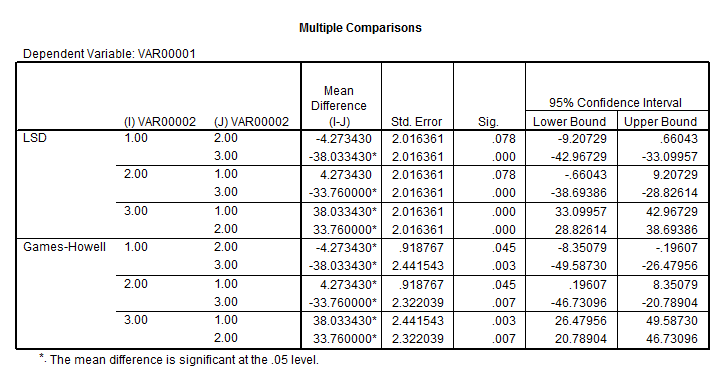


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of Games-Howell is adopted. Differences are considered significant at *P < 0.05*.



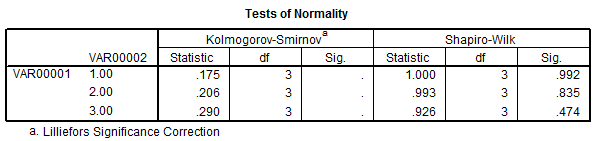
**(3) The difference in the relative abundance of phylum *Cyanobacteria* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

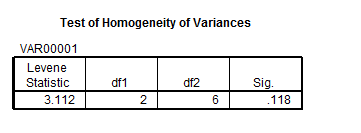
VAR00001= The relative abundance of phylum *Cyanobacteria*

VAR00002= Different group (1: C/T 0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

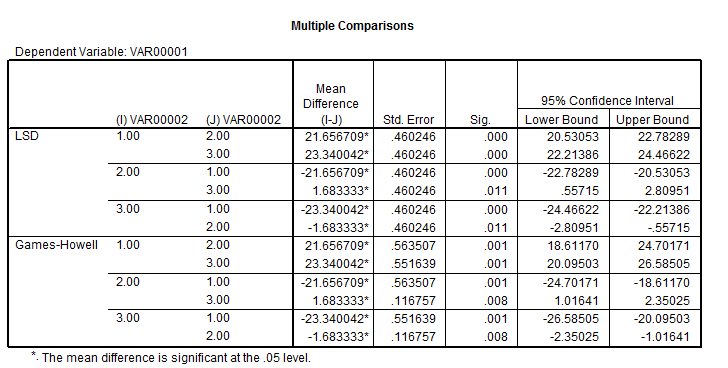


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



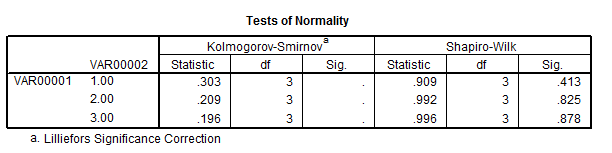
**(4) The difference in the relative abundance of phylum *Chlorobi* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

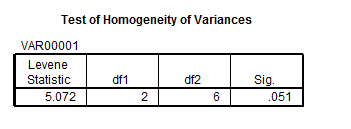
VAR00001= The relative abundance of phylum *Chlorobi*

VAR00002= Different group (1: C/T 0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

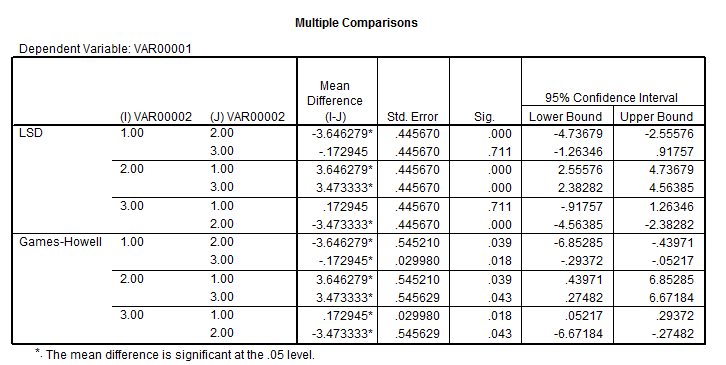


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



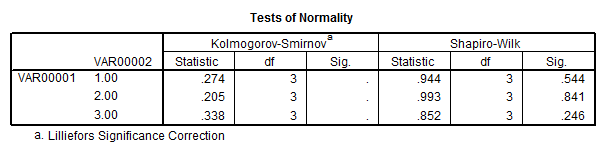
**(5) The difference in the relative abundance of phylum*Actinobacteria* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

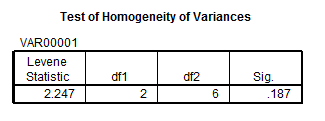
VAR00001= The relative abundance of phylum *Actinobacteria*

VAR00002= Different group (1: C/T 0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

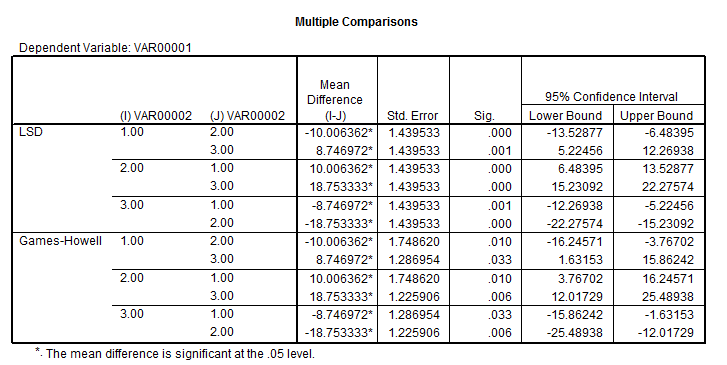


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



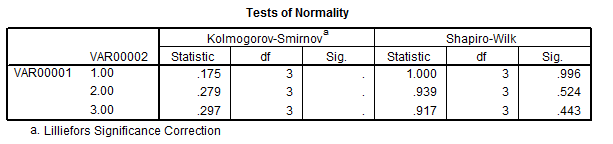
**(6) The difference in the relative abundance of phylum *Planctomycetes* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

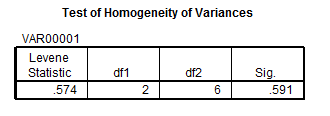
VAR00001= The relative abundance of phylum *Planctomycetes*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

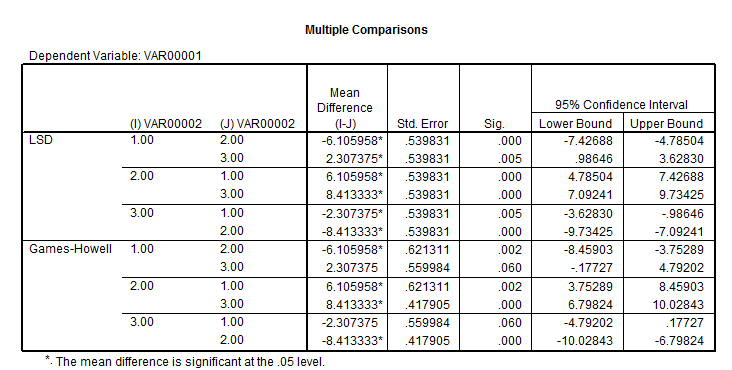


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



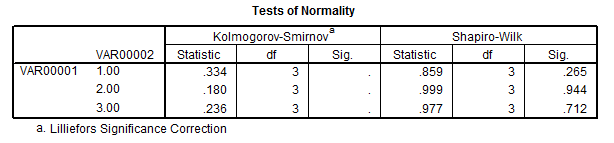
**(7) The difference in the relative abundance of phylum *Acidobacteria* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

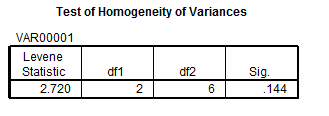
VAR00001= The relative abundance of phylum *Acidobacteria*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

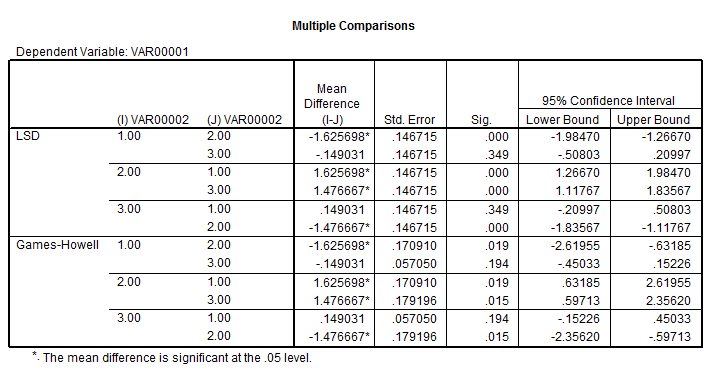


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



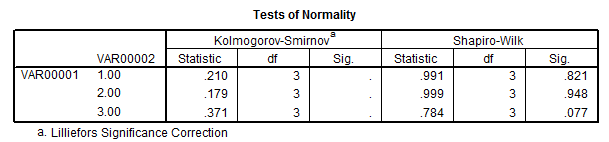
**(8) The difference in the relative abundance of phylum *Verrucomicrobia* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

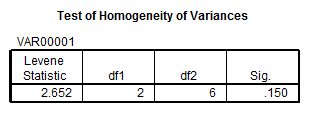
VAR00001= The relative abundance of phylum *Verrucomicrobia*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

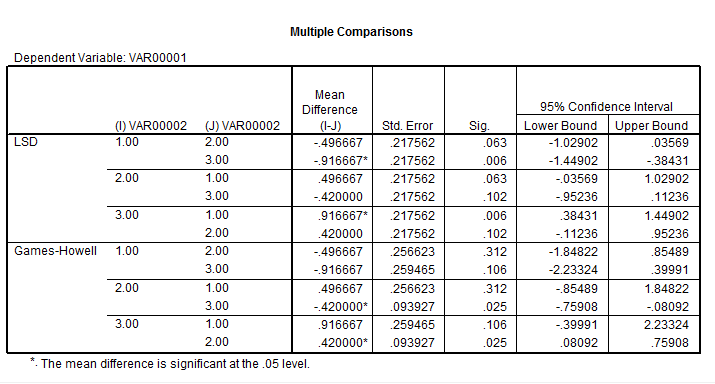


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



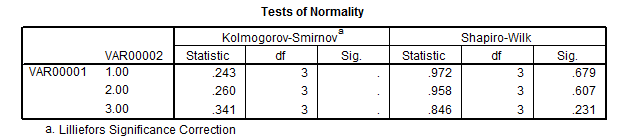
**(9) The difference in the relative abundance of phylum *Firmicutes* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

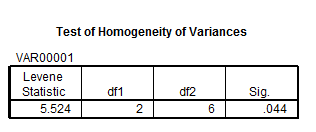
VAR00001= The relative abundance of phylum *Firmicutes*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



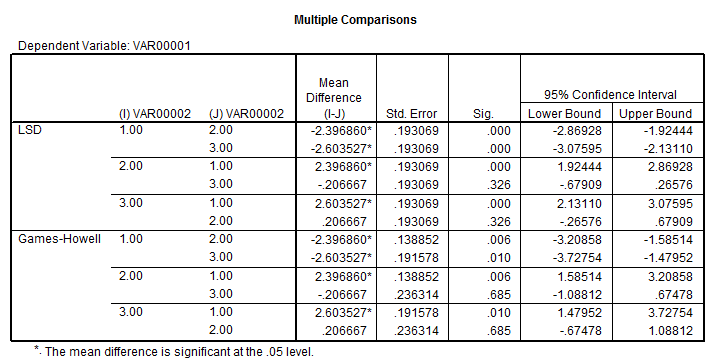
Levene statistic result show that homogeneity of variances assumption is not met.

  
ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of Games-Howell is adopted. Differences are considered significant at *P < 0.05*.



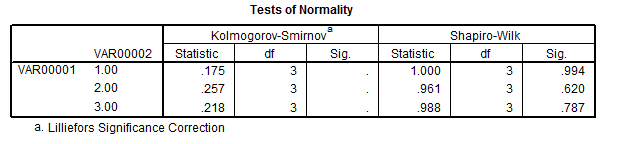
**(10) The difference in the relative abundance of phylum *Bacteroidetes* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

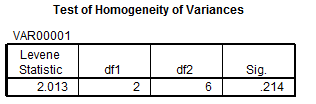
VAR00001= The relative abundance of phylum *Bacteroidetes*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

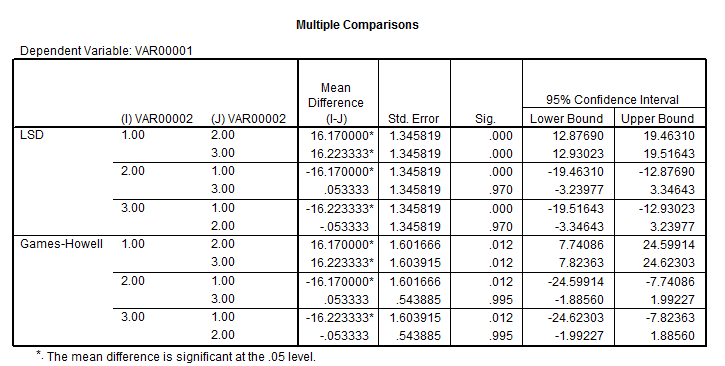


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



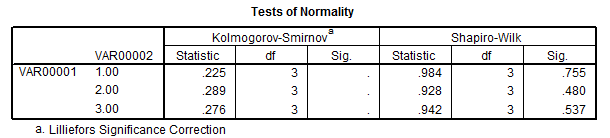
# 2. The difference in the relative abundance of Twenty-one major bacterial families between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments.

**(1) The difference in the relative abundance of family C111 between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

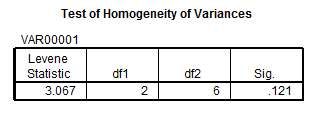
Software: SPSS 13.0

VAR00001= The relative abundance of family C111

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution. 

Levene statistic result show that homogeneity of variances assumption is met.

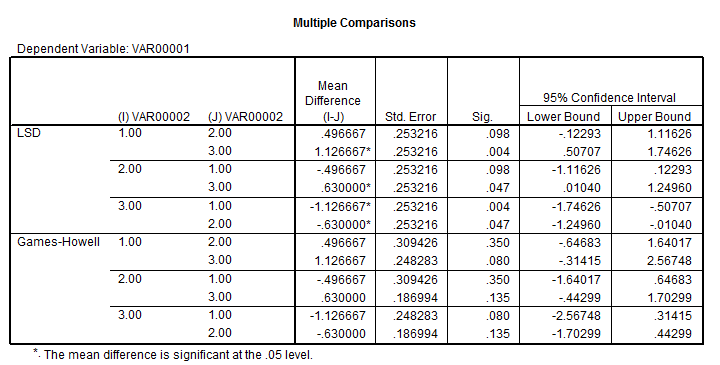


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



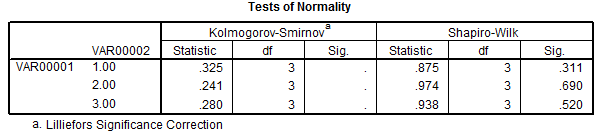
**(2) The difference in the relative abundance of family *Actinomycetaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

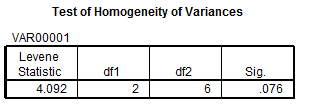
VAR00001= The relative abundance of family *Actinomycetaceae*.

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

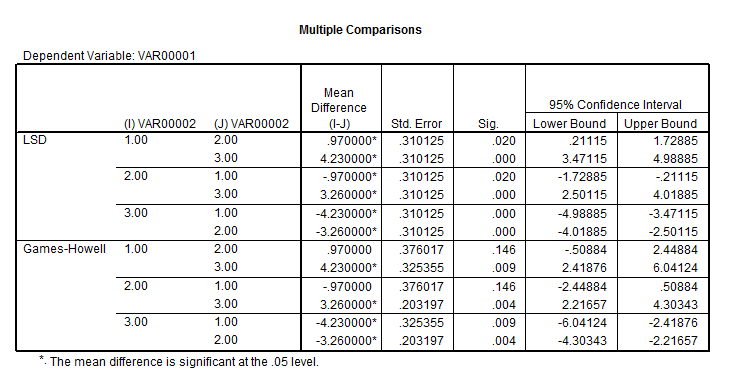


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



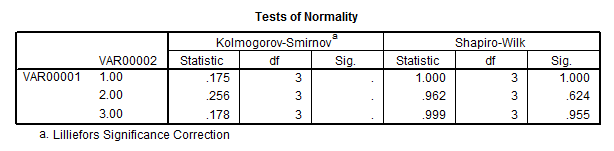
**(3) The difference in the relative abundance of family *Mycobacteriaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

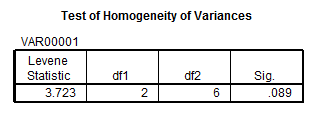
VAR00001= The relative abundance of family *Mycobacteriaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

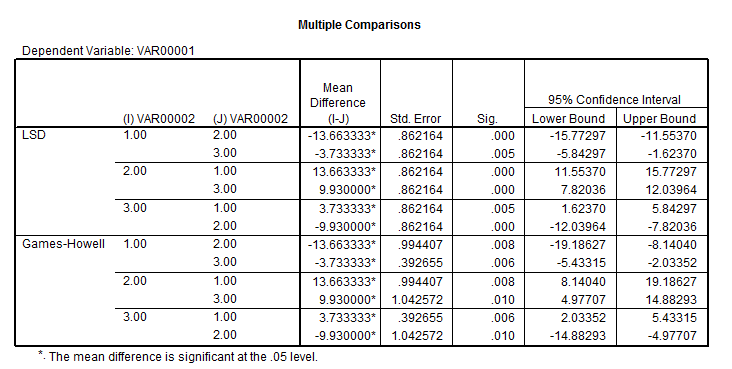


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



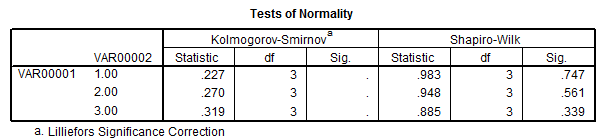
**(4) The difference in the relative abundance of family *Solirubrobacteraceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

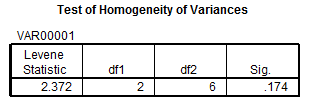
VAR00001= The relative abundance of family *Solirubrobacteraceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

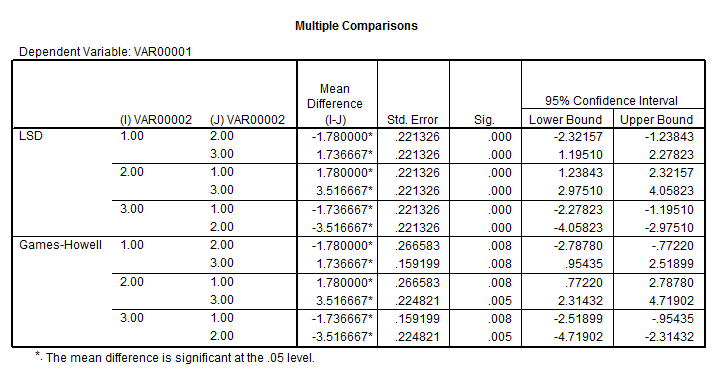


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



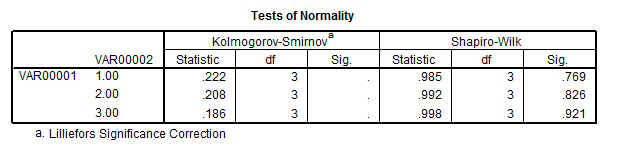
**(5) The difference in the relative abundance of family *Cytophagaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

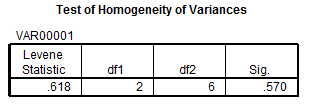
VAR00001= The relative abundance of family *Cytophagaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

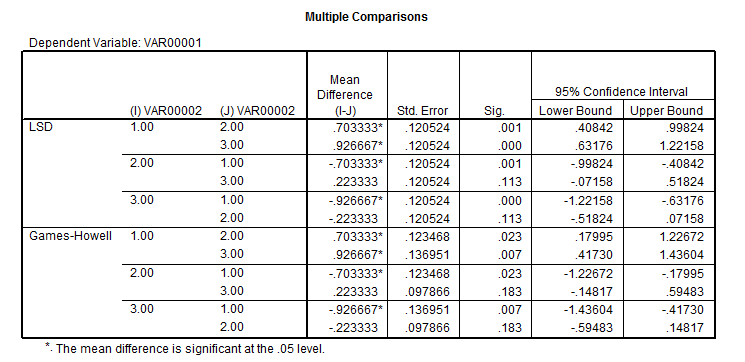


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



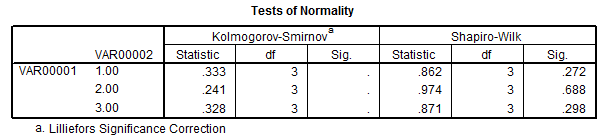
**(6) The difference in the relative abundance of family *Cryomorphaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

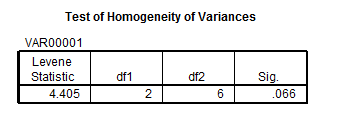
VAR00001= The relative abundance of family *Cryomorphaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

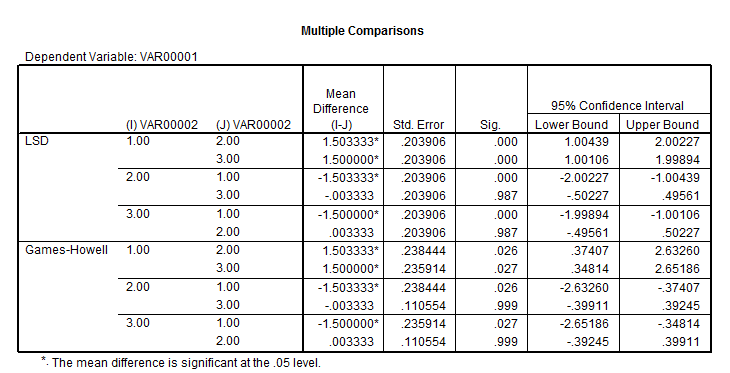


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

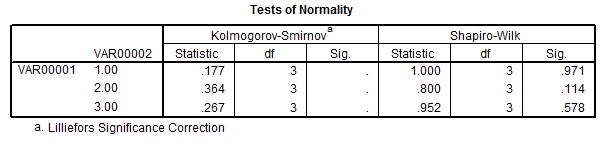


**(7) The difference in the relative abundance of family *Flavobacteriaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

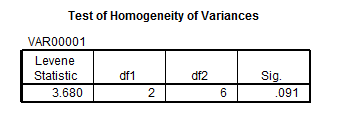
Software: SPSS 13.0

VAR00001= The relative abundance of family *Flavobacteriaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

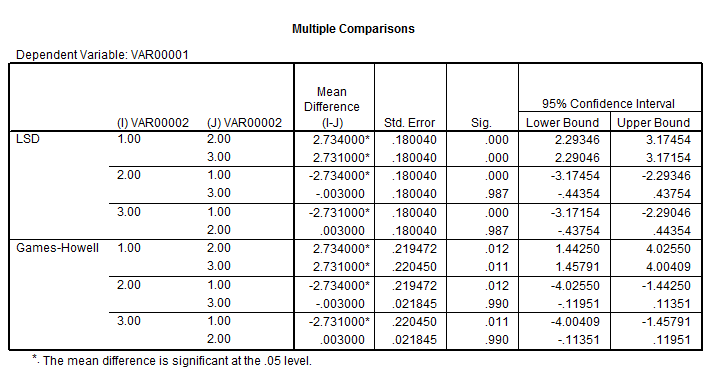


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



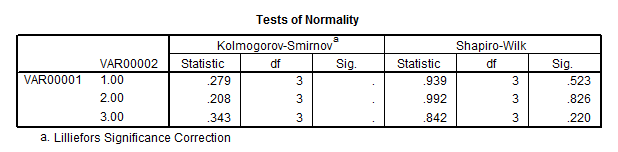
**(8) The difference in the relative abundance of family *Sphingobacteriaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

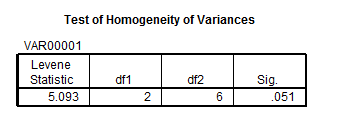
VAR00001= The relative abundance of family *Sphingobacteriaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

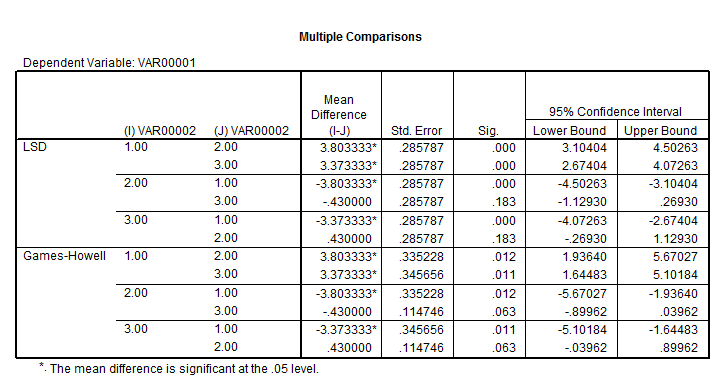


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



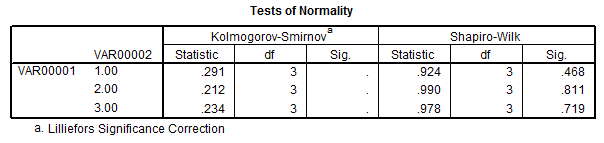
**(9) The difference in the relative abundance of family *Chitinophagaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

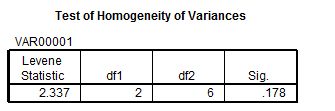
VAR00001= The relative abundance of family *Chitinophagaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

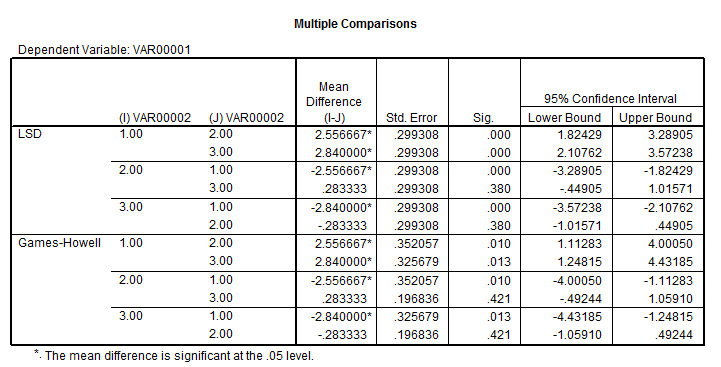


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



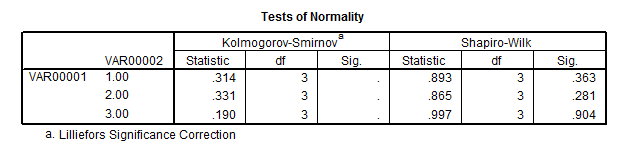
**(10) The difference in the relative abundance of family *Saprospiraceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

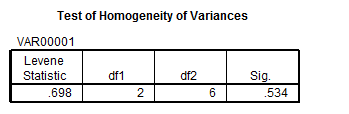
VAR00001= The relative abundance of family *Saprospiraceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

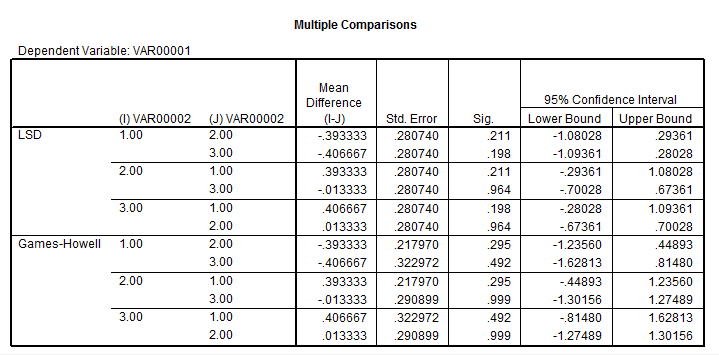


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

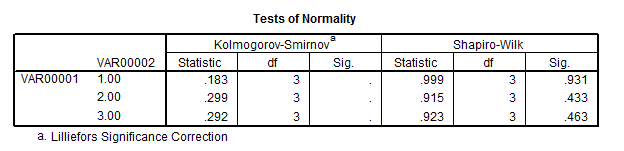


**(11) The difference in the relative abundance of family *Microcystaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

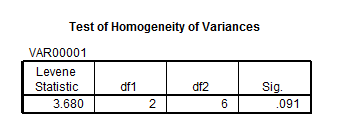
Software: SPSS 13.0

VAR00001= The relative abundance of family *Microcystaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

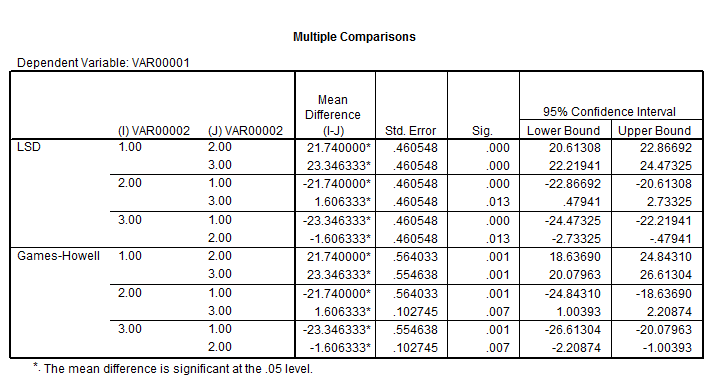


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

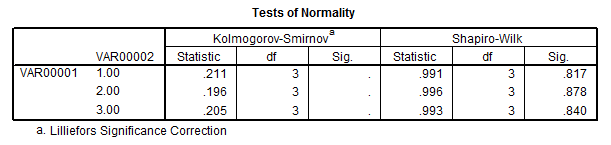


**(12) The difference in the relative abundance of unnamed family from OD1 between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

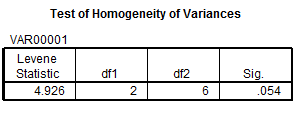
Software: SPSS 13.0

VAR00001= The relative abundance of unnamed family from OD1

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

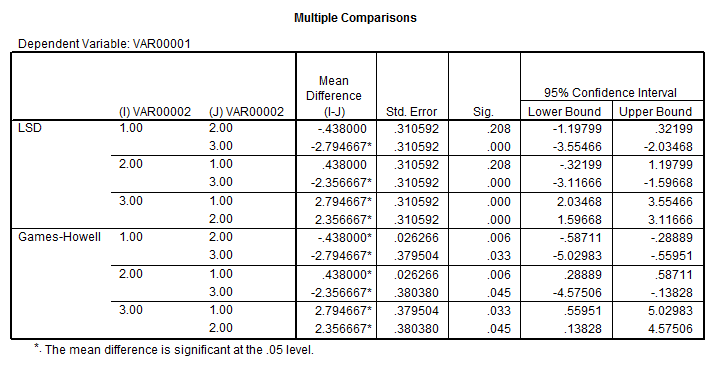


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



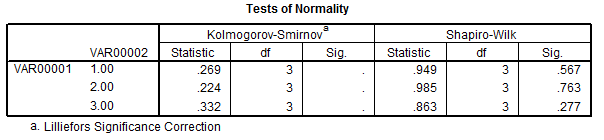
**(13) The difference in the relative abundance of family *Gemmataceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

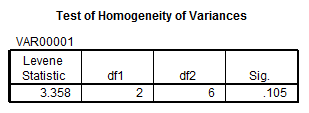
VAR00001= The relative abundance of family *Gemmataceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

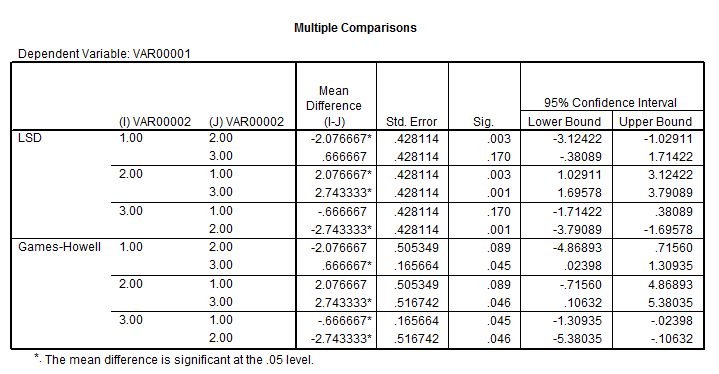


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

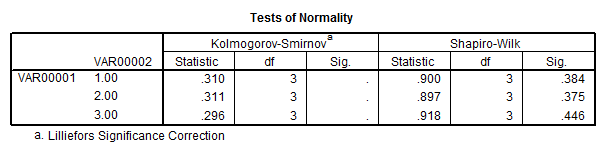


**(14) The difference in the relative abundance of family *Pirellulaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

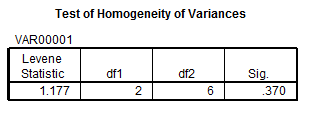
Software: SPSS 13.0

VAR00001= The relative abundance of family *Pirellulaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

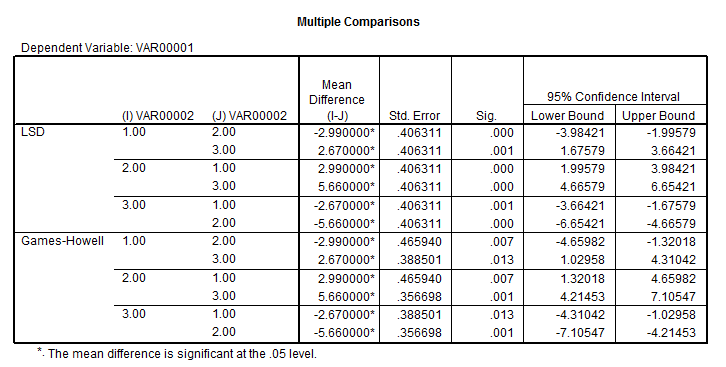


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



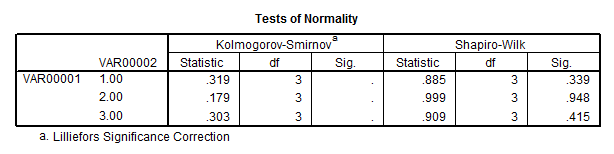
**(15) The difference in the relative abundance of family *Rhizobiaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

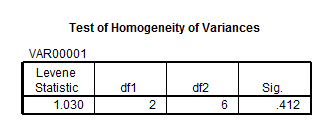
VAR00001= The relative abundance of family *Rhizobiaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

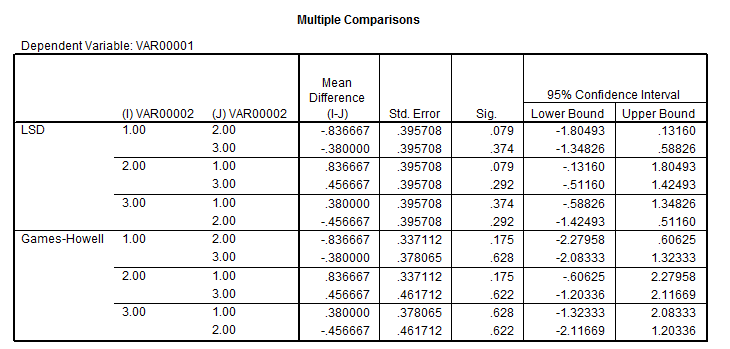


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



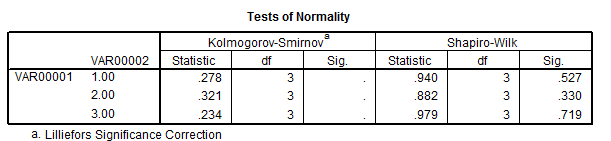
**(16) The difference in the relative abundance of family *Comamonadaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

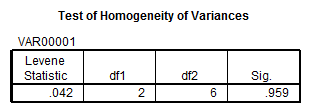
VAR00001= The relative abundance of family *Comamonadaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

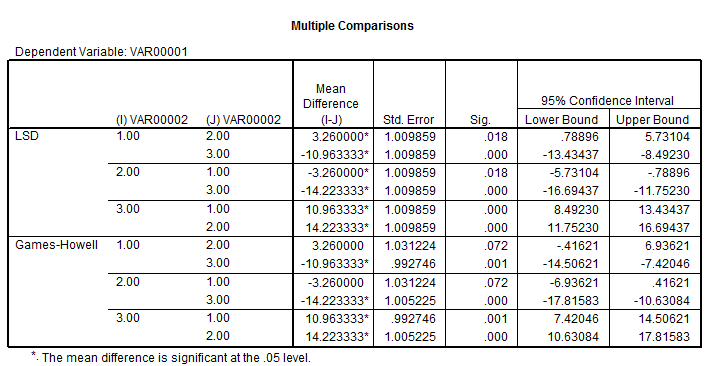


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

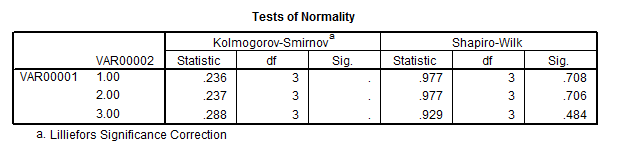


**(17) The difference in the relative abundance of family *Oxalobacteraceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

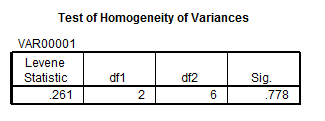
Software: SPSS 13.0

VAR00001= The relative abundance of family *Oxalobacteraceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

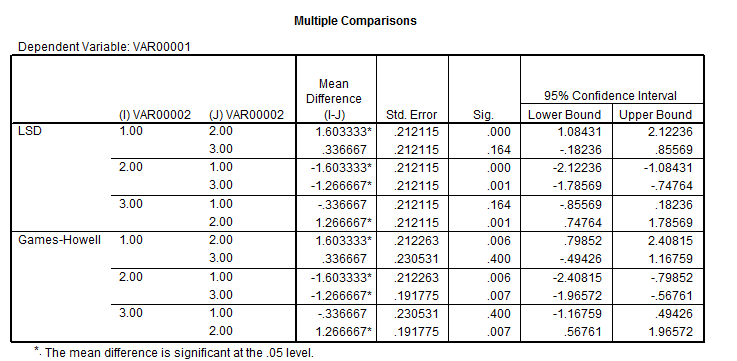


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



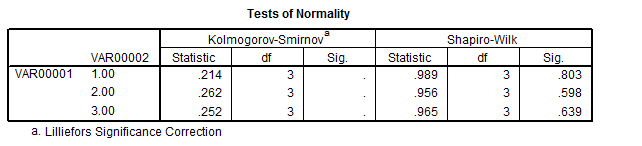
**(18) The difference in the relative abundance of family *Rhodocyclaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

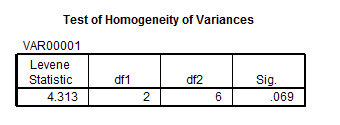
VAR00001= The relative abundance of family *Rhodocyclaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

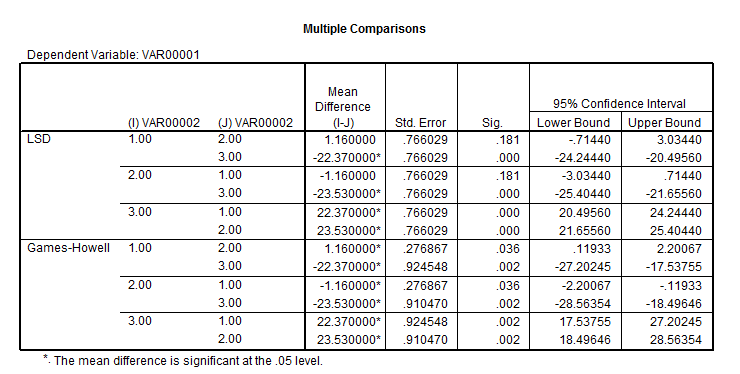


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



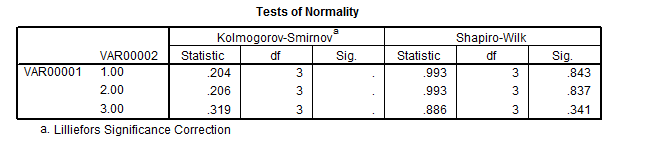
**(19) The difference in the relative abundance of family *Opitutaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

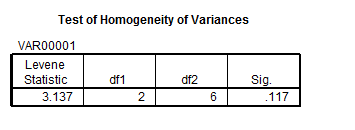
VAR00001= The relative abundance of family *Opitutaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.

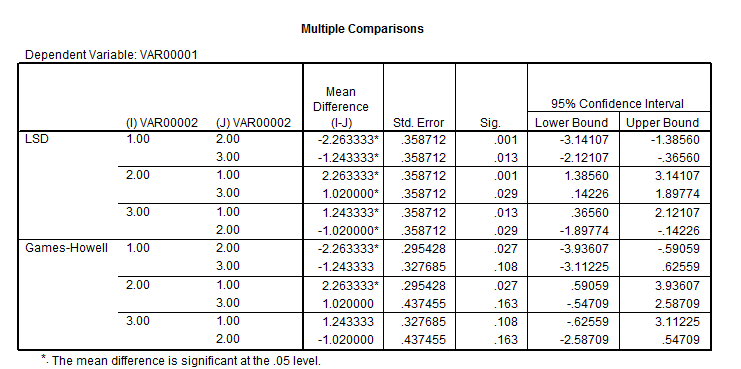


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.



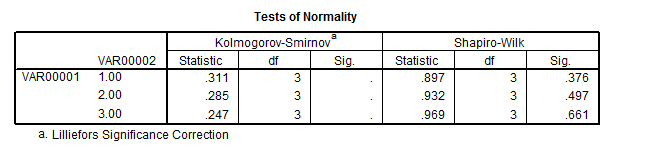
**(20) The difference in the relative abundance of family *Cerasicoccaceae* between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

Software: SPSS 13.0

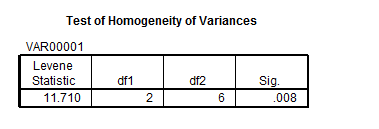
VAR00001= The relative abundance of family *Cerasicoccaceae*

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is not met.

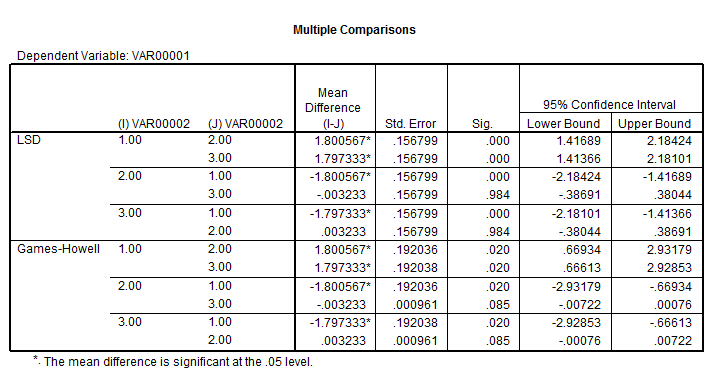


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of Games-Howell is adopted. Differences are considered significant at *P < 0.05*.

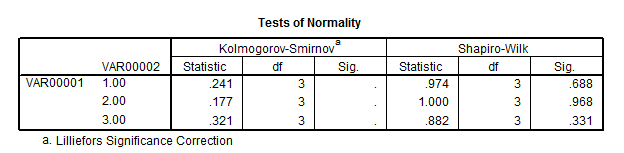


**(21) The difference in the relative abundance of family R4-41B between controls and** [**water hyacinth**](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) **treatments after 30 days**

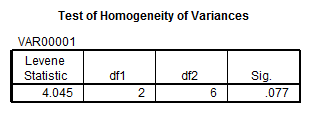
Software: SPSS 13.0

VAR00001= The relative abundance of family R4-41B

VAR00002= Different group (1: C/T0; 2: C30; 3: T30)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

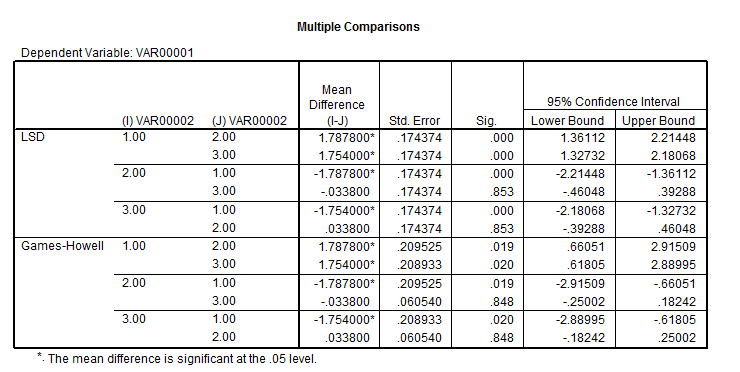


ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

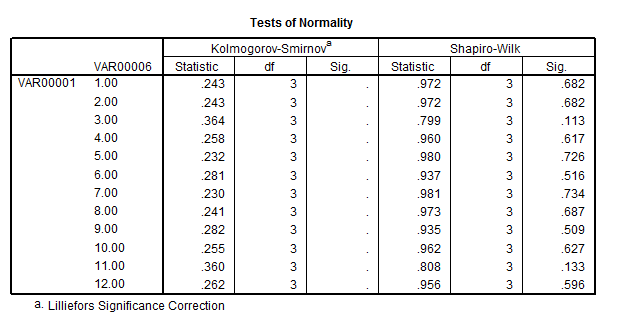


# 3 The difference of ACE index between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments over time

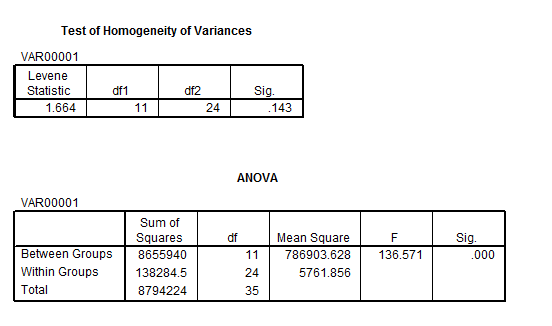
Software: SPSS 13.0

VAR00001= The value of ACE index

VAR00006= Different group (1: C0； 2: T0; 3: C6; 4: T6; 5: C12; 6: T12; 7: C18; 8: T18; 9: C24; 10: T24; 11: C30; 12: T30. Numbers behind C/T represent the processing time.)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.

ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

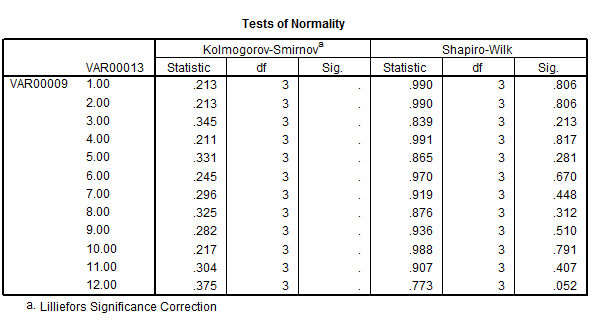
Because the result page of SPSS is too large to capture screenshots, please see the details in HTML document “1. ACE index--LSD”

# 4. The difference of Shannon index between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments over time

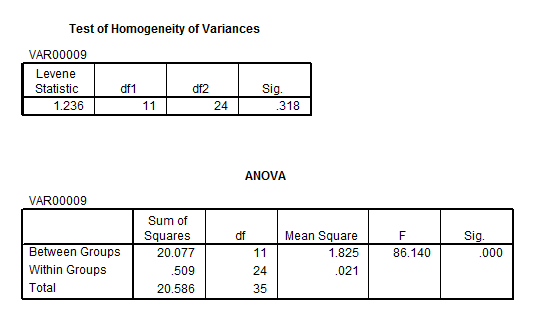
Software: SPSS 13.0

VAR00009= The value of Shannon index

VAR00013= Different group (1: C0； 2: T0; 3: C6; 4: T6; 5: C12; 6: T12; 7: C18; 8: T18; 9: C24; 10: T24; 11: C30; 12: T30. Numbers behind C/T represent the processing time.)

Shapiro-Wilk test show that data follow the normal distribution.

Levene statistic result show that homogeneity of variances assumption is met.



ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

Because the result page of SPSS is too large to capture screenshots, please see the details in HTML document “2. Shannon index --LSD”

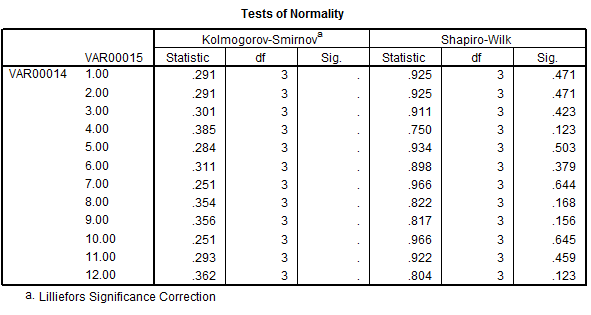
# 5. The difference of Total bacteria concentration between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments over time

Software: SPSS 13.0

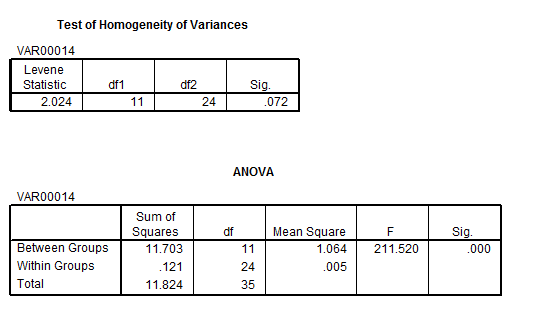
VAR00014= The concentration of total bacteria

VAR00015= Different group (1: C0； 2: T0; 3: C6; 4: T6; 5: C12; 6: T12; 7: C18; 8: T18; 9: C24; 10: T24; 11: C30; 12: T30. Numbers behind C/T represent the processing time.)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.



ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

Because the result page of SPSS is too large to capture screenshots, please see the details in HTML document “3. Total bacteria --LSD”

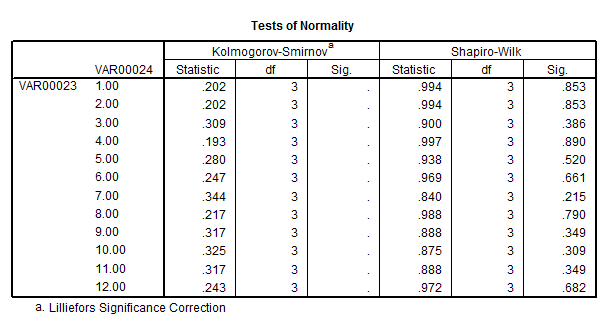
# 6. The difference of Total coliform concentration between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments over time

Software: SPSS 13.0

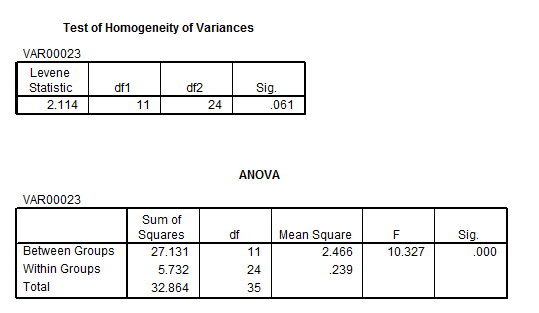
VAR00023= The concentration of total coliform group

VAR00024= Different group (1: C0； 2: T0; 3: C6; 4: T6; 5: C12; 6: T12; 7: C18; 8: T18; 9: C24; 10: T24; 11: C30; 12: T30. Numbers behind C/T represent the processing time.)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.



ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

Because the result page of SPSS is too large to capture screenshots, please see the details in HTML document “4. Total coliform--LSD”

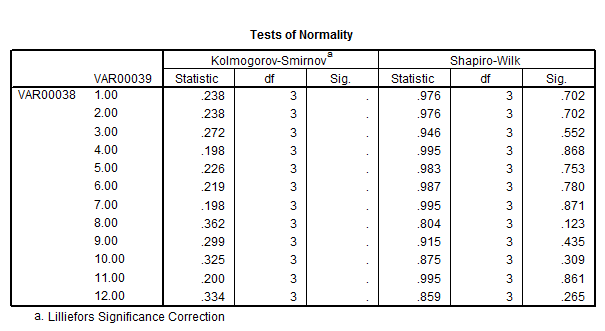
# 7. The difference of potential pathogenic bacteria level between controls and [water hyacinth](http://fjour.blyun.com/views/specific/3004/FJourDetail.jsp?dxNumber=165047056444&d=B4C5DE7C2A7DB8D927CFFF03F3967188&s=Phytoremediation+of+ethion+by+water+hyacinth+%28Eichhornia+crassipes%29+from+water) treatments over time

Software: SPSS 13.0

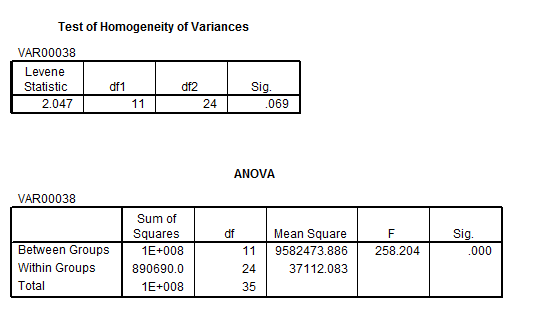
VAR00038= The concentration of potential pathogenic bacteria

VAR00039= Different group (1: C0； 2: T0; 3: C6; 4: T6; 5: C12; 6: T12; 7: C18; 8: T18; 9: C24; 10: T24; 11: C30; 12: T30. Numbers behind C/T represent the processing time.)

Shapiro-Wilk test show that data follow the normal distribution.



Levene statistic result show that homogeneity of variances assumption is met.



ANOVA statistics:

If homogeneity of variances assumption is met, comparison results of LSD is adopted.

If homogeneity of variances assumption is not met, comparison results of Games-Howell is adopted.

So, here, results of LSD is adopted. Differences are considered significant at *P < 0.05*.

Because the result page of SPSS is too large to capture screenshots, please see the details in HTML document “5. potential pathogenic bacteria level --LSD”