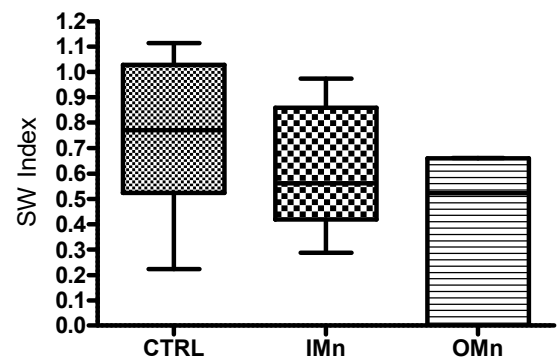


# The effects of high dose of two manganese supplements (organic and inorganic) on the rumen microbial ecosystem

## Effects on biodiversity of rumen ciliates

Ctrl, control group, 34.3 mg Mn/kg DM feed, no manganese supplement  
IMn, inorganic manganese supplement, 182.7 mg Mn/kg DM feed  
OMn, organic manganese supplement, 184 mg Mn/kg DM feed



SW index, Shannon-Wiener diversity index

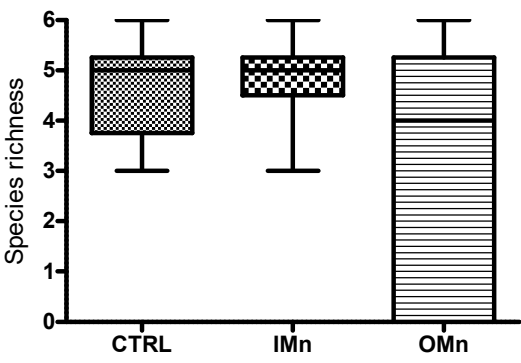
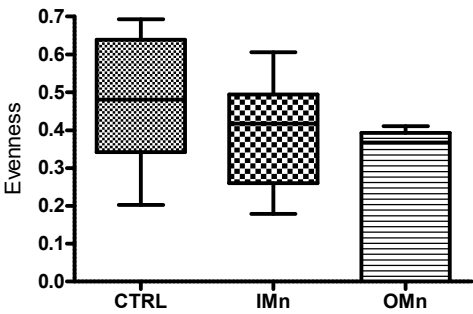


Table Analyzed	Data 13 - BIODIVERZITA, Shannon-Wiener ind
Kruskal-Wallis test	
P value	0.2908
Exact or approximate P value?	Gaussian Approximation
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	3
Kruskal-Wallis statistic	2.470
Dunn's Multiple Comparison Test	Difference in rank sum

Table Analyzed	Data 14 biodiverzita, evenness
Kruskal-Wallis test	
P value	0.0821
Exact or approximate P value?	Gaussian Approximation
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	3
Kruskal-Wallis statistic	4.999
Dunn's Multiple Comparison Test	Difference in rank sum

Table Analyzed	Data 15 - biodiverzita, species richness
Kruskal-Wallis test	
P value	0.3929
Exact or approximate P value?	Gaussian Approximation
P value summary	ns
Do the medians vary signif. (P < 0.05)	No
Number of groups	3
Kruskal-Wallis statistic	1.868
Dunn's Multiple Comparison Test	Difference in rank sum