

SUPPLEMENTARY DATA FOR FIGURE 2

1) ACTIVITY LACCASE

Kruskal-Wallis rank sum test :

Kruskal-Wallis chi-squared = 110.88, df = 19, p-value = 5.481e-15

RESULTS OF THE DUNN PAIRWISE MULTIPLE TEST COMPARISON

Dunn (1964) Kruskal-Wallis multiple comparison p-values adjusted with the Benjamini-Hochberg method

	Comparison	Z	P.unadj	P.adj
1	ASPseagrasslaccasenosalt - ASPseagrasslaccasesalt	0.187679156	8.511282e-01	9.136404e-01
2	ASPseagrasslaccasenosalt - ASPwheatstrawlaccasenosalt	-0.863324118	3.879593e-01	5.191005e-01
3	ASPseagrasslaccasesalt - ASPwheatstrawlaccasenosalt	-1.051003274	2.932571e-01	4.189387e-01
4	ASPseagrasslaccasenosalt - ASPwheatstrawlaccasesalt	0.713180793	4.757339e-01	6.025963e-01
5	ASPseagrasslaccasesalt - ASPwheatstrawlaccasesalt	0.525501637	5.992345e-01	7.028059e-01
6	ASPwheatstrawlaccasenosalt - ASPwheatstrawlaccasesalt	1.576504912	1.149095e-01	2.003009e-01
7	ASPseagrasslaccasenosalt - STYseagrasslaccasenosalt	-1.572334264	1.158731e-01	2.001444e-01
8	ASPseagrasslaccasesalt - STYseagrasslaccasenosalt	-1.760013420	7.840553e-02	1.474956e-01
9	ASPwheatstrawlaccasenosalt - STYseagrasslaccasenosalt	-0.709010145	4.783182e-01	6.018573e-01
10	ASPwheatstrawlaccasesalt - STYseagrasslaccasenosalt	-2.285515057	2.228264e-02	5.962961e-02
11	ASPseagrasslaccasenosalt - STYseagrasslaccasesalt	-2.239637930	2.511444e-02	6.197069e-02
12	ASPseagrasslaccasesalt - STYseagrasslaccasesalt	-2.427317086	1.521095e-02	4.515752e-02
13	ASPwheatstrawlaccasenosalt - STYseagrasslaccasesalt	-1.376313812	1.687245e-01	2.671471e-01
14	ASPwheatstrawlaccasesalt - STYseagrasslaccasesalt	-2.952818723	3.148868e-03	1.272947e-02
15	STYseagrasslaccasenosalt - STYseagrasslaccasesalt	-0.667303666	5.045782e-01	6.106360e-01
16	ASPseagrasslaccasenosalt - STYwheatstrawlaccasenosalt	-2.840211229	4.508367e-03	1.679588e-02
17	ASPseagrasslaccasesalt - STYwheatstrawlaccasenosalt	-3.027890386	2.462674e-03	1.063427e-02
18	ASPwheatstrawlaccasenosalt - STYwheatstrawlaccasenosalt	-1.976887111	4.805439e-02	9.924277e-02
19	ASPwheatstrawlaccasesalt - STYwheatstrawlaccasenosalt	-3.553392023	3.802973e-04	2.189590e-03
20	STYseagrasslaccasenosalt - STYwheatstrawlaccasenosalt	-1.267876966	2.048419e-01	3.113597e-01
21	STYseagrasslaccasesalt - STYwheatstrawlaccasenosalt	-0.600573300	5.481242e-01	6.591367e-01
22	ASPseagrasslaccasenosalt - STYwheatstrawlaccasesalt	-1.313754093	1.889290e-01	2.894879e-01
23	ASPseagrasslaccasesalt - STYwheatstrawlaccasesalt	-1.501433249	1.332435e-01	2.201415e-01
24	ASPwheatstrawlaccasenosalt - STYwheatstrawlaccasesalt	-0.450429975	6.524004e-01	7.467234e-01
25	ASPwheatstrawlaccasesalt - STYwheatstrawlaccasesalt	-2.026934886	4.266907e-02	9.212641e-02
26	STYseagrasslaccasenosalt - STYwheatstrawlaccasesalt	0.258580171	7.959592e-01	8.741748e-01
27	STYseagrasslaccasesalt - STYwheatstrawlaccasesalt	0.925883837	3.545064e-01	4.880885e-01
28	STYwheatstrawlaccasenosalt - STYwheatstrawlaccasesalt	1.526457137	1.268961e-01	2.152701e-01
29	ASPseagrasslaccasenosalt - T1seagrasslaccasenosalt	-2.373098663	1.763955e-02	4.928698e-02
30	ASPseagrasslaccasesalt - T1seagrasslaccasenosalt	-2.560777819	1.044381e-02	3.307207e-02
31	ASPwheatstrawlaccasenosalt - T1seagrasslaccasenosalt	-1.509774545	1.311010e-01	2.185016e-01
32	ASPwheatstrawlaccasesalt - T1seagrasslaccasenosalt	-3.086279456	2.026782e-03	9.168777e-03
33	STYseagrasslaccasenosalt - T1seagrasslaccasenosalt	-0.800764400	4.232681e-01	5.508283e-01
34	STYseagrasslaccasesalt - T1seagrasslaccasenosalt	-0.133460733	8.938290e-01	9.130511e-01
35	STYwheatstrawlaccasenosalt - T1seagrasslaccasenosalt	0.467112566	6.404193e-01	7.419492e-01
36	STYwheatstrawlaccasesalt - T1seagrasslaccasenosalt	-1.059344570	2.894429e-01	4.198027e-01
37	ASPseagrasslaccasenosalt - T1seagrasslaccasesalt	0.008341296	9.933447e-01	9.933447e-01

38 ASPseagrasslaccasesalt - T1seagrasslaccasesalt -0.179337860 8.576724e-01 9.053209e-01
39 ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt 0.871665414 3.833909e-01 5.166261e-01
40 ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt -0.704839497 4.809101e-01 6.011377e-01
41 STYseagrasslaccasesalt - T1seagrasslaccasesalt 1.580675559 1.139522e-01 2.004715e-01
42 STYseagrasslaccasesalt - T1seagrasslaccasesalt 2.247979226 2.457751e-02 6.144379e-02
43 STYwheatstrawlaccasesalt - T1seagrasslaccasesalt 2.848552525 4.391860e-03 1.668907e-02
44 STYwheatstrawlaccasesalt - T1seagrasslaccasesalt 1.322095389 1.861364e-01 2.875278e-01
45 T1seagrasslaccasesalt - T1seagrasslaccasesalt 2.381439959 1.724510e-02 4.890402e-02
46 ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt -4.508470395 6.529668e-06 1.378485e-04
47 ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt -4.696149551 2.651115e-06 1.259279e-04
48 ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -3.645146277 2.672398e-04 1.813413e-03
49 ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -5.221651188 1.773348e-07 3.369360e-05
50 STYseagrasslaccasesalt - T1wheatstrawlaccasesalt -2.936136132 3.323284e-03 1.315467e-02
51 STYseagrasslaccasesalt - T1wheatstrawlaccasesalt -2.268832465 2.327852e-02 5.976916e-02
52 STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -1.668259166 9.526429e-02 1.740405e-01
53 STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -3.194716302 1.399684e-03 6.486338e-03
54 T1seagrasslaccasesalt - T1wheatstrawlaccasesalt -2.135371732 3.273066e-02 7.773531e-02
55 T1seagrasslaccasesalt - T1wheatstrawlaccasesalt -4.516811691 6.277769e-06 1.490970e-04
56 ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt -3.424101937 6.168348e-04 3.084174e-03
57 ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt -3.611781094 3.041012e-04 1.863846e-03
58 ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -2.560777819 1.044381e-02 3.363262e-02
59 ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -4.137282731 3.514430e-05 3.338708e-04
60 STYseagrasslaccasesalt - T1wheatstrawlaccasesalt -1.851767674 6.405919e-02 1.229419e-01
61 STYseagrasslaccasesalt - T1wheatstrawlaccasesalt -1.184464008 2.362294e-01 3.534141e-01
62 STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -0.583890708 5.592938e-01 6.683386e-01
63 STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt -2.110347845 3.482841e-02 8.069996e-02
64 T1seagrasslaccasesalt - T1wheatstrawlaccasesalt -1.051003274 2.932571e-01 4.221125e-01
65 T1seagrasslaccasesalt - T1wheatstrawlaccasesalt -3.432443233 5.981691e-04 3.071679e-03
66 T1wheatstrawlaccasesalt - T1wheatstrawlaccasesalt 1.084368458 2.782015e-01 4.066021e-01
67 ASPseagrasslaccasesalt - T2seagrasslaccasesalt -1.868450266 6.169934e-02 1.208544e-01
68 ASPseagrasslaccasesalt - T2seagrasslaccasesalt -2.056129422 3.977004e-02 8.995605e-02
69 ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt -1.005126147 3.148361e-01 4.464094e-01
70 ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt -2.581631059 9.833465e-03 3.221307e-02
71 STYseagrasslaccasesalt - T2seagrasslaccasesalt -0.296116002 7.671415e-01 8.474237e-01
72 STYseagrasslaccasesalt - T2seagrasslaccasesalt 0.371187664 7.104978e-01 7.987845e-01
73 STYwheatstrawlaccasesalt - T2seagrasslaccasesalt 0.971760964 3.311695e-01 4.626632e-01
74 STYwheatstrawlaccasesalt - T2seagrasslaccasesalt -0.554696173 5.791025e-01 6.876842e-01
75 T1seagrasslaccasesalt - T2seagrasslaccasesalt 0.504648398 6.138058e-01 7.154792e-01
76 T1seagrasslaccasesalt - T2seagrasslaccasesalt -1.876791561 6.054667e-02 1.198319e-01
77 T1wheatstrawlaccasesalt - T2seagrasslaccasesalt 2.640020130 8.290110e-03 2.763370e-02
78 T1wheatstrawlaccasesalt - T2seagrasslaccasesalt 1.555651672 1.197909e-01 2.050476e-01
79 ASPseagrasslaccasesalt - T2seagrasslaccasesalt -0.145972677 8.839430e-01 9.127672e-01
80 ASPseagrasslaccasesalt - T2seagrasslaccasesalt -0.333651833 7.386423e-01 8.207137e-01
81 ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt 0.717351441 4.731573e-01 6.033549e-01
82 ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt -0.859153470 3.902559e-01 5.185218e-01
83 STYseagrasslaccasesalt - T2seagrasslaccasesalt 1.426361587 1.537640e-01 2.475861e-01
84 STYseagrasslaccasesalt - T2seagrasslaccasesalt 2.093665253 3.628981e-02 8.307306e-02
85 STYwheatstrawlaccasesalt - T2seagrasslaccasesalt 2.694238552 7.054965e-03 2.393649e-02
86 STYwheatstrawlaccasesalt - T2seagrasslaccasesalt 1.167781416 2.428949e-01 3.605472e-01

87 T1seagrasslaccasesalt - T2seagrasslaccasesalt 2.227125986 2.593885e-02 6.318439e-02
88 T1seagrasslaccasesalt - T2seagrasslaccasesalt -0.154313973 8.773622e-01 9.159276e-01
89 T1wheatstrawlaccasesalt - T2seagrasslaccasesalt 4.362497718 1.285859e-05 2.035944e-04
90 T1wheatstrawlaccasesalt - T2seagrasslaccasesalt 3.278129260 1.044975e-03 4.963633e-03
91 T2seagrasslaccasesalt - T2seagrasslaccasesalt 1.722477589 8.498304e-02 1.567648e-01
92 ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt -4.283255408 1.841785e-05 1.944107e-04
93 ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt -4.470934564 7.787853e-06 1.479692e-04
94 ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -3.419931290 6.263695e-04 3.051544e-03
95 ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -4.996436201 5.839948e-07 3.698634e-05
96 STYseagrasslaccasesalt - T2wheatstrawlaccasesalt -2.710921144 6.709658e-03 2.317882e-02
97 STYseagrasslaccasesalt - T2wheatstrawlaccasesalt -2.043617478 4.099135e-02 9.056229e-02
98 STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -1.443044178 1.490080e-01 2.419788e-01
99 STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -2.969501315 2.982835e-03 1.259419e-02
100 T1seagrasslaccasesalt - T2wheatstrawlaccasesalt -1.910156745 5.611303e-02 1.134200e-01
101 T1seagrasslaccasesalt - T2wheatstrawlaccasesalt -4.291596704 1.773929e-05 1.982627e-04
102 T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt 0.225214987 8.218120e-01 8.922531e-01
103 T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt -0.859153470 3.902559e-01 5.149209e-01
104 T2seagrasslaccasesalt - T2wheatstrawlaccasesalt -2.414805142 1.574363e-02 4.601984e-02
105 T2seagrasslaccasesalt - T2wheatstrawlaccasesalt -4.137282731 3.514430e-05 3.179722e-04
106 ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt -3.824484137 1.310462e-04 9.959510e-04
107 ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt -4.012163293 6.016486e-05 5.196056e-04
108 ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -2.961160019 3.064827e-03 1.265907e-02
109 ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -4.537664931 5.688054e-06 1.543900e-04
110 STYseagrasslaccasesalt - T2wheatstrawlaccasesalt -2.252149874 2.431280e-02 6.159243e-02
111 STYseagrasslaccasesalt - T2wheatstrawlaccasesalt -1.584846207 1.130013e-01 2.006565e-01
112 STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -0.984272908 3.249813e-01 4.573812e-01
113 STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt -2.510730044 1.204818e-02 3.752712e-02
114 T1seagrasslaccasesalt - T2wheatstrawlaccasesalt -1.451385474 1.466726e-01 2.402395e-01
115 T1seagrasslaccasesalt - T2wheatstrawlaccasesalt -3.832825433 1.266799e-04 1.002882e-03
116 T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt 0.683986258 4.939838e-01 6.094606e-01
117 T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt -0.400382200 6.888750e-01 7.790849e-01
118 T2seagrasslaccasesalt - T2wheatstrawlaccasesalt -1.956033872 5.046116e-02 1.030927e-01
119 T2seagrasslaccasesalt - T2wheatstrawlaccasesalt -3.678511460 2.345992e-04 1.650883e-03
120 T2wheatstrawlaccasesalt - T2wheatstrawlaccasesalt 0.458771271 6.463984e-01 7.443376e-01
121 ASPseagrasslaccasesalt - T3seagrasslaccasesalt -2.014422942 4.396515e-02 9.281531e-02
122 ASPseagrasslaccasesalt - T3seagrasslaccasesalt -2.202102099 2.765810e-02 6.651947e-02
123 ASPwheatstrawlaccasesalt - T3seagrasslaccasesalt -1.151098824 2.496916e-01 3.677628e-01
124 ASPwheatstrawlaccasesalt - T3seagrasslaccasesalt -2.727603736 6.379619e-03 2.244681e-02
125 STYseagrasslaccasesalt - T3seagrasslaccasesalt -0.442088679 6.584250e-01 7.491063e-01
126 STYseagrasslaccasesalt - T3seagrasslaccasesalt 0.225214987 8.218120e-01 8.973810e-01
127 STYwheatstrawlaccasesalt - T3seagrasslaccasesalt 0.825788287 4.089242e-01 5.358317e-01
128 STYwheatstrawlaccasesalt - T3seagrasslaccasesalt -0.700668850 4.835097e-01 6.004369e-01
129 T1seagrasslaccasesalt - T3seagrasslaccasesalt 0.358675721 7.198377e-01 8.045245e-01
130 T1seagrasslaccasesalt - T3seagrasslaccasesalt -2.022764238 4.309746e-02 9.200581e-02
131 T1wheatstrawlaccasesalt - T3seagrasslaccasesalt 2.494047453 1.262957e-02 3.870351e-02
132 T1wheatstrawlaccasesalt - T3seagrasslaccasesalt 1.409678995 1.586345e-01 2.532820e-01
133 T2seagrasslaccasesalt - T3seagrasslaccasesalt -0.145972677 8.839430e-01 9.078333e-01
134 T2seagrasslaccasesalt - T3seagrasslaccasesalt -1.868450266 6.169934e-02 1.196212e-01
135 T2wheatstrawlaccasesalt - T3seagrasslaccasesalt 2.268832465 2.327852e-02 6.058792e-02

136 T2wheatstrawlaccasesalt - T3seagrasslaccasesalt 1.810061195 7.028630e-02 1.335440e-01
137 ASPseagrasslaccasesalt - T3seagrasslaccasesalt 0.033365183 9.733834e-01 9.837385e-01
138 ASPseagrasslaccasesalt - T3seagrasslaccasesalt -0.154313973 8.773622e-01 9.109225e-01
139 ASPwheatstrawlaccasesalt - T3seagrasslaccasesalt 0.896689302 3.698847e-01 5.019864e-01
140 ASPwheatstrawlaccasesalt - T3seagrasslaccasesalt -0.679815610 4.966212e-01 6.087615e-01
141 STYseagrasslaccasesalt - T3seagrasslaccasesalt 1.605699447 1.083400e-01 1.960437e-01
142 STYseagrasslaccasesalt - T3seagrasslaccasesalt 2.273003113 2.302599e-02 6.076304e-02
143 STYwheatstrawlaccasesalt - T3seagrasslaccasesalt 2.873576413 4.058529e-03 1.573715e-02
144 STYwheatstrawlaccasesalt - T3seagrasslaccasesalt 1.347119276 1.779418e-01 2.771225e-01
145 T1seagrasslaccasesalt - T3seagrasslaccasesalt 2.406463846 1.610780e-02 4.637093e-02
146 T1seagrasslaccasesalt - T3seagrasslaccasesalt 0.025023887 9.800359e-01 9.852213e-01
147 T1wheatstrawlaccasesalt - T3seagrasslaccasesalt 4.541835578 5.576653e-06 2.119128e-04
148 T1wheatstrawlaccasesalt - T3seagrasslaccasesalt 3.457467121 5.452788e-04 2.877860e-03
149 T2seagrasslaccasesalt - T3seagrasslaccasesalt 1.901815449 5.719529e-02 1.143906e-01
150 T2seagrasslaccasesalt - T3seagrasslaccasesalt 0.179337860 8.576724e-01 9.103785e-01
151 T2wheatstrawlaccasesalt - T3seagrasslaccasesalt 4.316620591 1.584361e-05 1.881429e-04
152 T2wheatstrawlaccasesalt - T3seagrasslaccasesalt 3.857849321 1.143891e-04 9.449537e-04
153 T3seagrasslaccasesalt - T3seagrasslaccasesalt 2.047788126 4.058076e-02 9.070994e-02
154 ASPseagrasslaccasesalt - T3wheatstrawlaccasesalt -4.349985774 1.361464e-05 1.847701e-04
155 ASPseagrasslaccasesalt - T3wheatstrawlaccasesalt -4.537664931 5.688054e-06 1.801217e-04
156 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -3.486661656 4.890897e-04 2.733148e-03
157 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -5.063166568 4.123493e-07 3.917318e-05
158 STYseagrasslaccasesalt - T3wheatstrawlaccasesalt -2.777651511 5.475331e-03 2.000602e-02
159 STYseagrasslaccasesalt - T3wheatstrawlaccasesalt -2.110347845 3.482841e-02 8.169626e-02
160 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -1.509774545 1.311010e-01 2.204352e-01
161 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -3.036231681 2.395552e-03 1.058500e-02
162 T1seagrasslaccasesalt - T3wheatstrawlaccasesalt -1.976887111 4.805439e-02 1.003333e-01
163 T1seagrasslaccasesalt - T3wheatstrawlaccasesalt -4.358327070 1.310604e-05 1.915498e-04
164 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesalt 0.158484621 8.740749e-01 9.175372e-01
165 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesalt -0.925883837 3.545064e-01 4.916511e-01
166 T2seagrasslaccasesalt - T3wheatstrawlaccasesalt -2.481535509 1.308177e-02 3.945295e-02
167 T2seagrasslaccasesalt - T3wheatstrawlaccasesalt -4.204013097 2.622238e-05 2.622238e-04
168 T2wheatstrawlaccasesalt - T3wheatstrawlaccasesalt -0.066730367 9.467964e-01 9.619856e-01
169 T2wheatstrawlaccasesalt - T3wheatstrawlaccasesalt -0.525501637 5.992345e-01 7.071712e-01
170 T3seagrasslaccasesalt - T3wheatstrawlaccasesalt -2.335562832 1.951404e-02 5.373431e-02
171 T3seagrasslaccasesalt - T3wheatstrawlaccasesalt -4.383350958 1.168676e-05 2.018622e-04
172 ASPseagrasslaccasesalt - T3wheatstrawlaccasesalt -3.607610446 3.090300e-04 1.834866e-03
173 ASPseagrasslaccasesalt - T3wheatstrawlaccasesalt -3.795289602 1.474712e-04 1.077674e-03
174 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -2.744286327 6.064262e-03 2.173981e-02
175 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -4.320791239 1.554707e-05 1.969296e-04
176 STYseagrasslaccasesalt - T3wheatstrawlaccasesalt -2.035276182 4.182309e-02 9.133779e-02
177 STYseagrasslaccasesalt - T3wheatstrawlaccasesalt -1.367972516 1.713207e-01 2.690159e-01
178 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -0.767399216 4.428442e-01 5.723837e-01
179 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesalt -2.293856353 2.179875e-02 5.916804e-02
180 T1seagrasslaccasesalt - T3wheatstrawlaccasesalt -1.234511783 2.170123e-01 3.272407e-01
181 T1seagrasslaccasesalt - T3wheatstrawlaccasesalt -3.615951742 2.992461e-04 1.895225e-03
182 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesalt 0.900859949 3.676628e-01 5.025606e-01
183 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesalt -0.183508508 8.543990e-01 9.119990e-01
184 T2seagrasslaccasesalt - T3wheatstrawlaccasesalt -1.739160180 8.200659e-02 1.527574e-01

```

185   T2seagrasslaccasesalt - T3wheatstrawlaccasesalt -3.461637769 5.368992e-04 2.914596e-03
186   T2wheatstrawlaccasesalt - T3wheatstrawlaccasesalt 0.675644962 4.992661e-01 6.080805e-01
187   T2wheatstrawlaccasesalt - T3wheatstrawlaccasesalt 0.216873692 8.283068e-01 8.941948e-01
188   T3seagrasslaccasesalt - T3wheatstrawlaccasesalt -1.593187503 1.111181e-01 1.991740e-01
189   T3seagrasslaccasesalt - T3wheatstrawlaccasesalt -3.640975629 2.716068e-04 1.779493e-03
190   T3wheatstrawlaccasesalt - T3wheatstrawlaccasesalt 0.742375329 4.578600e-01 5.877932e-01

```

```
> library(rcompanion)
```

```
> cldList(Padj ~ Comparison,data=PT, threshold+0,05)
```

```
Group Letter MonoLetter
```

```

1  ASPseagrasslaccasesalt  abc abc
2  ASPseagrasslaccasesalt  ab ab
3  ASPwheatstrawlaccasesalt abcde abcde
4  ASPwheatstrawlaccasesalt  a a
5  STYseagrasslaccasesalt abcdefg abcdefg
6  STYseagrasslaccasesalt cdefghi cdefghi
7  STYwheatstrawlaccasesalt dfghi d fghi
8  STYwheatstrawlaccasesalt abcdef abcdef
9  T1seagrasslaccasesalt defghi defghi
10 T1seagrasslaccasesalt  abc abc
11 T1wheatstrawlaccasesalt  h h
12 T1wheatstrawlaccasesalt fghi fghi
13 T2seagrasslaccasesalt bcdefg bcdefg
14 T2seagrasslaccasesalt abce abc e
15 T2wheatstrawlaccasesalt hi hi
16 T2wheatstrawlaccasesalt ghi ghi
17 T3seagrasslaccasesalt bcdefgi bcdefg i
18 T3seagrasslaccasesalt  abc abc
19 T3wheatstrawlaccasesalt hi hi
20 T3wheatstrawlaccasesalt fghi fghi

```

```
> R<-
```

```
dunn.test(activite_laccase$value,activite_laccase$groupe,method="bonferroni",kw=TRUE,label=TRUE,wrap=TRUE,table=FALSE,list=TRUE)
```

```
Kruskal-Wallis rank sum test
```

```
data: x and group
```

```
Kruskal-Wallis chi-squared = 110.8824, df = 19, p-value = 0
```

```
Comparison of x by group
(Bonferroni)
```

```
List of pairwise comparisons: Z statistic (adjusted p-value)
```

```

-----
ASPseagrasslaccasesalt - ASPseagrasslaccasesalt : 0.187679 (1.0000)
ASPseagrasslaccasesalt - ASPwheatstrawlaccasesalt : -0.863324 (1.0000)
ASPseagrasslaccasesalt - ASPwheatstrawlaccasesalt : -1.051003 (1.0000)
ASPseagrasslaccasesalt - ASPwheatstrawlaccasesalt : 0.713180 (1.0000)
ASPseagrasslaccasesalt - ASPwheatstrawlaccasesalt : 0.525501 (1.0000)
ASPwheatstrawlaccasesalt - ASPwheatstrawlaccasesalt : 1.576504 (1.0000)
ASPseagrasslaccasesalt - STYseagrasslaccasesalt : -1.572334 (1.0000)

```

ASPseagrasslaccasesalt - STYseagrasslaccasesalt : -1.760013 (1.0000)
ASPwheatstrawlaccasesalt - STYseagrasslaccasesalt : -0.709010 (1.0000)
ASPwheatstrawlaccasesalt - STYseagrasslaccasesalt : -2.285515 (1.0000)
ASPseagrasslaccasesalt - STYseagrasslaccasesalt : -2.239637 (1.0000)
ASPseagrasslaccasesalt - STYseagrasslaccasesalt : -2.427317 (1.0000)
ASPwheatstrawlaccasesalt - STYseagrasslaccasesalt : -1.376313 (1.0000)
ASPwheatstrawlaccasesalt - STYseagrasslaccasesalt : -2.952818 (0.2991)
STYseagrasslaccasesalt - STYseagrasslaccasesalt : -0.667303 (1.0000)
ASPseagrasslaccasesalt - STYwheatstrawlaccasesalt : -2.840211 (0.4283)
ASPseagrasslaccasesalt - STYwheatstrawlaccasesalt : -3.027890 (0.2340)
ASPwheatstrawlaccasesalt - STYwheatstrawlaccasesalt : -1.976887 (1.0000)
ASPwheatstrawlaccasesalt - STYwheatstrawlaccasesalt : -3.553392 (0.0361)
STYseagrasslaccasesalt - STYwheatstrawlaccasesalt : -1.267876 (1.0000)
STYseagrasslaccasesalt - STYwheatstrawlaccasesalt : -0.600573 (1.0000)
ASPseagrasslaccasesalt - STYwheatstrawlaccasesalt : -1.313754 (1.0000)
ASPseagrasslaccasesalt - STYwheatstrawlaccasesalt : -1.501433 (1.0000)
ASPwheatstrawlaccasesalt - STYwheatstrawlaccasesalt : -0.450429 (1.0000)
ASPwheatstrawlaccasesalt - STYwheatstrawlaccasesalt : -2.026934 (1.0000)
STYseagrasslaccasesalt - STYwheatstrawlaccasesalt : 0.258580 (1.0000)
STYseagrasslaccasesalt - STYwheatstrawlaccasesalt : 0.925883 (1.0000)
STYwheatstrawlaccasesalt - STYwheatstrawlaccasesalt : 1.526457 (1.0000)
ASPseagrasslaccasesalt - T1seagrasslaccasesalt : -2.373098 (1.0000)
ASPseagrasslaccasesalt - T1seagrasslaccasesalt : -2.560777 (0.9922)
ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt : -1.509774 (1.0000)
ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt : -3.086279 (0.1925)
STYseagrasslaccasesalt - T1seagrasslaccasesalt : -0.800764 (1.0000)
STYseagrasslaccasesalt - T1seagrasslaccasesalt : -0.133460 (1.0000)
STYwheatstrawlaccasesalt - T1seagrasslaccasesalt : 0.467112 (1.0000)
STYwheatstrawlaccasesalt - T1seagrasslaccasesalt : -1.059344 (1.0000)
ASPseagrasslaccasesalt - T1seagrasslaccasesalt : 0.008341 (1.0000)
ASPseagrasslaccasesalt - T1seagrasslaccasesalt : -0.179337 (1.0000)
ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt : 0.871665 (1.0000)
ASPwheatstrawlaccasesalt - T1seagrasslaccasesalt : -0.704839 (1.0000)
STYseagrasslaccasesalt - T1seagrasslaccasesalt : 1.580675 (1.0000)
STYseagrasslaccasesalt - T1seagrasslaccasesalt : 2.247979 (1.0000)
STYwheatstrawlaccasesalt - T1seagrasslaccasesalt : 2.848552 (0.4172)
STYwheatstrawlaccasesalt - T1seagrasslaccasesalt : 1.322095 (1.0000)
T1seagrasslaccasesalt - T1seagrasslaccasesalt : 2.381439 (1.0000)
ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt : -4.508470 (0.0006)*
ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt : -4.696149 (0.0003)*
ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -3.645146 (0.0254)
ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -5.221651 (0.0000)*
STYseagrasslaccasesalt - T1wheatstrawlaccasesalt : -2.936136 (0.3157)
STYseagrasslaccasesalt - T1wheatstrawlaccasesalt : -2.268832 (1.0000)
STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -1.668259 (1.0000)
STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -3.194716 (0.1330)
T1seagrasslaccasesalt - T1wheatstrawlaccasesalt : -2.135371 (1.0000)
T1seagrasslaccasesalt - T1wheatstrawlaccasesalt : -4.516811 (0.0006)*
ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt : -3.424101 (0.0586)

ASPseagrasslaccasesalt - T1wheatstrawlaccasesalt : -3.611781 (0.0289)
ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -2.560777 (0.9922)
ASPwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -4.137282 (0.0033)*
STYseagrasslaccasesalt - T1wheatstrawlaccasesalt : -1.851767 (1.0000)
STYseagrasslaccasesalt - T1wheatstrawlaccasesalt : -1.184464 (1.0000)
STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -0.583890 (1.0000)
STYwheatstrawlaccasesalt - T1wheatstrawlaccasesalt : -2.110347 (1.0000)
T1seagrasslaccasesalt - T1wheatstrawlaccasesalt : -1.051003 (1.0000)
T1seagrasslaccasesalt - T1wheatstrawlaccasesalt : -3.432443 (0.0568)
T1wheatstrawlaccasesalt - T1wheatstrawlaccasesalt : 1.084368 (1.0000)
ASPseagrasslaccasesalt - T2seagrasslaccasesalt : -1.868450 (1.0000)
ASPseagrasslaccasesalt - T2seagrasslaccasesalt : -2.056129 (1.0000)
ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt : -1.005126 (1.0000)
ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt : -2.581631 (0.9342)
STYseagrasslaccasesalt - T2seagrasslaccasesalt : -0.296116 (1.0000)
STYseagrasslaccasesalt - T2seagrasslaccasesalt : 0.371187 (1.0000)
STYwheatstrawlaccasesalt - T2seagrasslaccasesalt : 0.971760 (1.0000)
STYwheatstrawlaccasesalt - T2seagrasslaccasesalt : -0.554696 (1.0000)
T1seagrasslaccasesalt - T2seagrasslaccasesalt : 0.504648 (1.0000)
T1seagrasslaccasesalt - T2seagrasslaccasesalt : -1.876791 (1.0000)
T1wheatstrawlaccasesalt - T2seagrasslaccasesalt : 2.640020 (0.7876)
T1wheatstrawlaccasesalt - T2seagrasslaccasesalt : 1.555651 (1.0000)
ASPseagrasslaccasesalt - T2seagrasslaccasesalt : -0.145972 (1.0000)
ASPseagrasslaccasesalt - T2seagrasslaccasesalt : -0.333651 (1.0000)
ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt : 0.717351 (1.0000)
ASPwheatstrawlaccasesalt - T2seagrasslaccasesalt : -0.859153 (1.0000)
STYseagrasslaccasesalt - T2seagrasslaccasesalt : 1.426361 (1.0000)
STYseagrasslaccasesalt - T2seagrasslaccasesalt : 2.093665 (1.0000)
STYwheatstrawlaccasesalt - T2seagrasslaccasesalt : 2.694238 (0.6702)
STYwheatstrawlaccasesalt - T2seagrasslaccasesalt : 1.167781 (1.0000)
T1seagrasslaccasesalt - T2seagrasslaccasesalt : 2.227125 (1.0000)
T1seagrasslaccasesalt - T2seagrasslaccasesalt : -0.154313 (1.0000)
T1wheatstrawlaccasesalt - T2seagrasslaccasesalt : 4.362497 (0.0012)*
T1wheatstrawlaccasesalt - T2seagrasslaccasesalt : 3.278129 (0.0993)
T2seagrasslaccasesalt - T2seagrasslaccasesalt : 1.722477 (1.0000)
ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt : -4.283255 (0.0017)*
ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt : -4.470934 (0.0007)*
ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -3.419931 (0.0595)
ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -4.996436 (0.0001)*
STYseagrasslaccasesalt - T2wheatstrawlaccasesalt : -2.710921 (0.6374)
STYseagrasslaccasesalt - T2wheatstrawlaccasesalt : -2.043617 (1.0000)
STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -1.443044 (1.0000)
STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -2.969501 (0.2834)
T1seagrasslaccasesalt - T2wheatstrawlaccasesalt : -1.910156 (1.0000)
T1seagrasslaccasesalt - T2wheatstrawlaccasesalt : -4.291596 (0.0017)*
T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt : 0.225214 (1.0000)
T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -0.859153 (1.0000)
T2seagrasslaccasesalt - T2wheatstrawlaccasesalt : -2.414805 (1.0000)
T2seagrasslaccasesalt - T2wheatstrawlaccasesalt : -4.137282 (0.0033)*

ASPseagrasslaccasenosal - T2wheatstrawlaccasesalt : -3.824484 (0.0124)*
ASPseagrasslaccasesalt - T2wheatstrawlaccasesalt : -4.012163 (0.0057)*
ASPwheatstrawlaccasenosal - T2wheatstrawlaccasesalt : -2.961160 (0.2912)
ASPwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -4.537664 (0.0005)*
STYseagrasslaccasenosal - T2wheatstrawlaccasesalt : -2.252149 (1.0000)
STYseagrasslaccasesalt - T2wheatstrawlaccasesalt : -1.584846 (1.0000)
STYwheatstrawlaccasenosal - T2wheatstrawlaccasesalt : -0.984272 (1.0000)
STYwheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -2.510730 (1.0000)
T1seagrasslaccasenosal - T2wheatstrawlaccasesalt : -1.451385 (1.0000)
T1seagrasslaccasesalt - T2wheatstrawlaccasesalt : -3.832825 (0.0120)*
T1wheatstrawlaccasenosal - T2wheatstrawlaccasesalt : 0.683986 (1.0000)
T1wheatstrawlaccasesalt - T2wheatstrawlaccasesalt : -0.400382 (1.0000)
T2seagrasslaccasenosal - T2wheatstrawlaccasesalt : -1.956033 (1.0000)
T2seagrasslaccasesalt - T2wheatstrawlaccasesalt : -3.678511 (0.0223)*
T2wheatstrawlaccasenosal - T2wheatstrawlaccasesalt : 0.458771 (1.0000)
ASPseagrasslaccasenosal - T3seagrasslaccasenosal : -2.014422 (1.0000)
ASPseagrasslaccasesalt - T3seagrasslaccasenosal : -2.202102 (1.0000)
ASPwheatstrawlaccasenosal - T3seagrasslaccasenosal : -1.151098 (1.0000)
ASPwheatstrawlaccasesalt - T3seagrasslaccasenosal : -2.727603 (0.6061)
STYseagrasslaccasenosal - T3seagrasslaccasenosal : -0.442088 (1.0000)
STYseagrasslaccasesalt - T3seagrasslaccasenosal : 0.225214 (1.0000)
STYwheatstrawlaccasenosal - T3seagrasslaccasenosal : 0.825788 (1.0000)
STYwheatstrawlaccasesalt - T3seagrasslaccasenosal : -0.700668 (1.0000)
T1seagrasslaccasenosal - T3seagrasslaccasenosal : 0.358675 (1.0000)
T1seagrasslaccasesalt - T3seagrasslaccasenosal : -2.022764 (1.0000)
T1wheatstrawlaccasenosal - T3seagrasslaccasenosal : 2.494047 (1.0000)
T1wheatstrawlaccasesalt - T3seagrasslaccasenosal : 1.409678 (1.0000)
T2seagrasslaccasenosal - T3seagrasslaccasenosal : -0.145972 (1.0000)
T2seagrasslaccasesalt - T3seagrasslaccasenosal : -1.868450 (1.0000)
T2wheatstrawlaccasenosal - T3seagrasslaccasenosal : 2.268832 (1.0000)
T2wheatstrawlaccasesalt - T3seagrasslaccasenosal : 1.810061 (1.0000)
ASPseagrasslaccasenosal - T3seagrasslaccasesalt : 0.033365 (1.0000)
ASPseagrasslaccasesalt - T3seagrasslaccasesalt : -0.154313 (1.0000)
ASPwheatstrawlaccasenosal - T3seagrasslaccasesalt : 0.896689 (1.0000)
ASPwheatstrawlaccasesalt - T3seagrasslaccasesalt : -0.679815 (1.0000)
STYseagrasslaccasenosal - T3seagrasslaccasesalt : 1.605699 (1.0000)
STYseagrasslaccasesalt - T3seagrasslaccasesalt : 2.273003 (1.0000)
STYwheatstrawlaccasenosal - T3seagrasslaccasesalt : 2.873576 (0.3856)
STYwheatstrawlaccasesalt - T3seagrasslaccasesalt : 1.347119 (1.0000)
T1seagrasslaccasenosal - T3seagrasslaccasesalt : 2.406463 (1.0000)
T1seagrasslaccasesalt - T3seagrasslaccasesalt : 0.025023 (1.0000)
T1wheatstrawlaccasenosal - T3seagrasslaccasesalt : 4.541835 (0.0005)*
T1wheatstrawlaccasesalt - T3seagrasslaccasesalt : 3.457467 (0.0518)
T2seagrasslaccasenosal - T3seagrasslaccasesalt : 1.901815 (1.0000)
T2seagrasslaccasesalt - T3seagrasslaccasesalt : 0.179337 (1.0000)
T2wheatstrawlaccasenosal - T3seagrasslaccasesalt : 4.316620 (0.0015)*
T2wheatstrawlaccasesalt - T3seagrasslaccasesalt : 3.857849 (0.0109)*
T3seagrasslaccasenosal - T3seagrasslaccasesalt : 2.047788 (1.0000)
ASPseagrasslaccasenosal - T3wheatstrawlaccasenosal : -4.349985 (0.0013)*

ASPseagrasslaccasesalt - T3wheatstrawlaccasesosalt : -4.537664 (0.0005)*
 ASPwheatstrawlaccasesosalt - T3wheatstrawlaccasesosalt : -3.486661 (0.0465)
 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesosalt : -5.063166 (0.0000)*
 STYseagrasslaccasesosalt - T3wheatstrawlaccasesosalt : -2.777651 (0.5202)
 STYseagrasslaccasesalt - T3wheatstrawlaccasesosalt : -2.110347 (1.0000)
 STYwheatstrawlaccasesosalt - T3wheatstrawlaccasesosalt : -1.509774 (1.0000)
 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesosalt : -3.036231 (0.2276)
 T1seagrasslaccasesosalt - T3wheatstrawlaccasesosalt : -1.976887 (1.0000)
 T1seagrasslaccasesalt - T3wheatstrawlaccasesosalt : -4.358327 (0.0012)*
 T1wheatstrawlaccasesosalt - T3wheatstrawlaccasesosalt : 0.158484 (1.0000)
 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesosalt : -0.925883 (1.0000)
 T2seagrasslaccasesosalt - T3wheatstrawlaccasesosalt : -2.481535 (1.0000)
 T2seagrasslaccasesalt - T3wheatstrawlaccasesosalt : -4.204013 (0.0025)*
 T2wheatstrawlaccasesosalt - T3wheatstrawlaccasesosalt : -0.066730 (1.0000)
 T2wheatstrawlaccasesalt - T3wheatstrawlaccasesosalt : -0.525501 (1.0000)
 T3seagrasslaccasesosalt - T3wheatstrawlaccasesosalt : -2.335562 (1.0000)
 T3seagrasslaccasesalt - T3wheatstrawlaccasesosalt : -4.383350 (0.0011)*
 ASPseagrasslaccasesosalt - T3wheatstrawlaccasesalt : -3.607610 (0.0294)
 ASPseagrasslaccasesalt - T3wheatstrawlaccasesalt : -3.795289 (0.0140)*
 ASPwheatstrawlaccasesosalt - T3wheatstrawlaccasesalt : -2.744286 (0.5761)
 ASPwheatstrawlaccasesalt - T3wheatstrawlaccasesalt : -4.320791 (0.0015)*
 STYseagrasslaccasesosalt - T3wheatstrawlaccasesalt : -2.035276 (1.0000)
 STYseagrasslaccasesalt - T3wheatstrawlaccasesalt : -1.367972 (1.0000)
 STYwheatstrawlaccasesosalt - T3wheatstrawlaccasesalt : -0.767399 (1.0000)
 STYwheatstrawlaccasesalt - T3wheatstrawlaccasesalt : -2.293856 (1.0000)
 T1seagrasslaccasesosalt - T3wheatstrawlaccasesalt : -1.234511 (1.0000)
 T1seagrasslaccasesalt - T3wheatstrawlaccasesalt : -3.615951 (0.0284)
 T1wheatstrawlaccasesosalt - T3wheatstrawlaccasesalt : 0.900859 (1.0000)
 T1wheatstrawlaccasesalt - T3wheatstrawlaccasesalt : -0.183508 (1.0000)
 T2seagrasslaccasesosalt - T3wheatstrawlaccasesalt : -1.739160 (1.0000)
 T2seagrasslaccasesalt - T3wheatstrawlaccasesalt : -3.461637 (0.0510)
 T2wheatstrawlaccasesosalt - T3wheatstrawlaccasesalt : 0.675644 (1.0000)
 T2wheatstrawlaccasesalt - T3wheatstrawlaccasesalt : 0.216873 (1.0000)
 T3seagrasslaccasesosalt - T3wheatstrawlaccasesalt : -1.593187 (1.0000)
 T3seagrasslaccasesalt - T3wheatstrawlaccasesalt : -3.640975 (0.0258)
 T3wheatstrawlaccasesosalt - T3wheatstrawlaccasesalt : 0.742375 (1.0000)

alpha = 0.05

Reject Ho if $p \leq \alpha/2$

GROUPING

`cldList(Padj ~ Comparison,data=PT, threshold+0,05)`

Group Letter MonoLetter

- 1 ASPseagrasslaccasesosalt abc abc
- 2 ASPseagrasslaccasesalt ab ab
- 3 ASPwheatstrawlaccasesosalt abcde abcde
- 4 ASPwheatstrawlaccasesalt a a

5 STYseagrasslaccasenosalt abcdefg abcdefg
 6 STYseagrasslaccasesalt cdefghi cdefghi
 7 STYwheatstrawlaccasenosalt dfghi d fghi
 8 STYwheatstrawlaccasesalt abcdef abcdef
 9 T1seagrasslaccasenosalt defghi defghi
 10 T1seagrasslaccasesalt abc abc
 11 T1wheatstrawlaccasenosalt h h
 12 T1wheatstrawlaccasesalt fghi fghi
 13 T2seagrasslaccasenosalt bcdefg bcdefg
 14 T2seagrasslaccasesalt abce abc e
 15 T2wheatstrawlaccasenosalt hi hi
 16 T2wheatstrawlaccasesalt ghi ghi
 17 T3seagrasslaccasenosalt bcdefgi bcdefg i
 18 T3seagrasslaccasesalt abc abc
 19 T3wheatstrawlaccasenosalt hi hi
 20 T3wheatstrawlaccasesalt fghi fghi

2) ACTIVITY CELLULASE

No significant differences were found between the different groups.

3) ACTIVITY XYLANASE

Kruskal-Wallis rank sum test :

Kruskal-Wallis chi-squared = 76.256, df = 19, p-value = 8.146e-09

RESULTS OF THE DUNN PAIRWISE MULTIPLE TEST COMPARISON

Dunn (1964) Kruskal-Wallis multiple comparison p-values adjusted with the Benjamini-Hochberg method

	Comparison	Z	Punadj	Padj
1	ASPseagrassxylanenosalt - ASPseagrassxylanesalt	-0.43158545	6.660427e-01	8.325534e-01
2	ASPseagrassxylanenosalt - ASPwheatstrawxylanenosalt	-2.09982919	3.574387e-02	1.257655e-01
3	ASPseagrassxylanesalt - ASPwheatstrawxylanenosalt	-1.66824374	9.526735e-02	2.033797e-01
4	ASPseagrassxylanesalt - ASPwheatstrawxylanesalt	0.00000000	1.000000e+00	1.000000e+00
5	ASPseagrassxylanesalt - ASPwheatstrawxylanesalt	0.43158545	6.660427e-01	8.380670e-01
6	ASPwheatstrawxylanenosalt - ASPwheatstrawxylanesalt	2.09982919	3.574387e-02	1.281384e-01
7	ASPseagrassxylanenosalt - STYseagrassxylanenosalt	1.27815690	2.011941e-01	3.295421e-01
8	ASPseagrassxylanesalt - STYseagrassxylanenosalt	1.70974234	8.731353e-02	1.906847e-01
9	ASPwheatstrawxylanenosalt - STYseagrassxylanenosalt	3.37798609	7.301878e-04	8.160922e-03
10	ASPwheatstrawxylanesalt - STYseagrassxylanenosalt	1.27815690	2.011941e-01	3.324077e-01
11	ASPseagrassxylanenosalt - STYseagrassxylanesalt	-2.27412331	2.295857e-02	9.913929e-02
12	ASPseagrassxylanesalt - STYseagrassxylanesalt	-1.84253786	6.539651e-02	1.656712e-01
13	ASPwheatstrawxylanenosalt - STYseagrassxylanesalt	-0.17429412	8.616343e-01	9.630031e-01
14	ASPwheatstrawxylanesalt - STYseagrassxylanesalt	-2.27412331	2.295857e-02	1.014449e-01
15	STYseagrassxylanenosalt - STYseagrassxylanesalt	-3.55228021	3.819079e-04	5.581731e-03
16	ASPseagrassxylanenosalt - STYwheatstrawxylanenosalt	-0.87977033	3.789837e-01	5.538993e-01

17 ASPseagrassxylanenesalt - STYwheatstrawxylanenesalt -0.44818489 6.540198e-01 8.284250e-01
18 ASPwheatstrawxylanenesalt - STYwheatstrawxylanenesalt 1.22005886 2.224426e-01 3.551604e-01
19 ASPwheatstrawxylanenesalt - STYwheatstrawxylanenesalt -0.87977033 3.789837e-01 5.581931e-01
20 STYseagrassxylanenesalt - STYwheatstrawxylanenesalt -2.15792723 3.093349e-02 1.199462e-01
21 STYseagrassxylanenesalt - STYwheatstrawxylanenesalt 1.39435298 1.632110e-01 3.010689e-01
22 ASPseagrassxylanenesalt - STYwheatstrawxylanenesalt 1.27815690 2.011941e-01 3.353235e-01
23 ASPseagrassxylanenesalt - STYwheatstrawxylanenesalt 1.70974234 8.731353e-02 1.929020e-01
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28 STYwheatstrawxylanenesalt - STYwheatstrawxylanenesalt 2.15792723 3.093349e-02 1.224451e-01
29 ASPseagrassxylanenesalt - T1seagrassxylanenesalt -1.92553507 5.416245e-02 1.470124e-01
30 ASPseagrassxylanenesalt - T1seagrassxylanenesalt -1.49394962 1.351888e-01 2.675611e-01
31 ASPwheatstrawxylanenesalt - T1seagrassxylanenesalt 0.17429412 8.616343e-01 9.687013e-01
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33 STYseagrassxylanenesalt - T1seagrassxylanenesalt -3.20369196 1.356776e-03 8.889219e-03
34 STYseagrassxylanenesalt - T1seagrassxylanenesalt 0.34858824 7.273985e-01 8.859340e-01
35 STYwheatstrawxylanenesalt - T1seagrassxylanenesalt -1.04576473 2.956697e-01 4.494179e-01
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37 ASPseagrassxylanenesalt - T1seagrassxylanenesalt -2.61441184 8.938123e-03 4.717342e-02
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55 T1seagrassxylanenesalt - T1wheatstrawxylanenesalt -0.78847341 4.304198e-01 6.195437e-01
56 ASPseagrassxylanenesalt - T1wheatstrawxylanenesalt -1.92553507 5.416245e-02 1.513363e-01
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125 STYseagrassxylanenosalt - T3seagrassxylanenosalt -1.38605326 1.657306e-01 2.942881e-01
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129 T1seagrassxylanenosalt - T3seagrassxylanenosalt 1.81763870 6.911937e-02 1.621319e-01
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133 T2seagrassxylanenosalt - T3seagrassxylanenosalt 1.86743703 6.184058e-02 1.587799e-01
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139 ASPwheatstrawxylanenosalt - T3seagrassxylanenosalt 0.37348741 7.087857e-01 8.744759e-01
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 178 STYwheatstrawxylanenosalt - T3wheatstrawxylanesalt 0.77187397 4.401891e-01 6.288415e-01
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 184 T2seagrassxylanenosalt - T3wheatstrawxylanesalt 1.86743703 6.184058e-02 1.631904e-01
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 187 T2wheatstrawxylanesalt - T3wheatstrawxylanesalt 1.86743703 6.184058e-02 1.654889e-01
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 190 T3wheatstrawxylanenosalt - T3wheatstrawxylanesalt 1.83423814 6.661865e-02 1.665466e-01

GROUPING

Group Letter MonoLetter

1 ASPseagrassxylanenosalt ab ab
 2 ASPseagrassxylanesalt abc abc
 3 ASPwheatstrawxylanenosalt bcde bcde
 4 ASPwheatstrawxylanesalt ab ab
 5 STYseagrassxylanenosalt e e
 6 STYseagrassxylanesalt bcde bcde
 7 STYwheatstrawxylanenosalt abcd abcd
 8 STYwheatstrawxylanesalt a a
 9 T1seagrassxylanenosalt bcde bcde
 10 T1seagrassxylanesalt cde cde
 11 T1wheatstrawxylanenosalt de de
 12 T1wheatstrawxylanesalt bcde bcde
 13 T2seagrassxylanenosalt bcde bcde
 14 T2seagrassxylanesalt bcd bcd
 15 T2wheatstrawxylanenosalt e e
 16 T2wheatstrawxylanesalt bcde bcde
 17 T3seagrassxylanenosalt abc abc
 18 T3seagrassxylanesalt bcde bcde

19 T3wheatstrawxylenenosalt bcde bcde

20 T3wheatstrawxylenesalt abc abc

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