

Moderate virulence caused by the protist *Labyrinthula zosterae* in ecosystem foundation species *Zostera marina* under nutrient limitation

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Marine Ecology Progress Series 571: 97–108 (2017)

Table S1. Results of the full linear mixed model ANOVA for *Labyrinthula zosterae* concentration, wasting disease index (WDI) and eelgrass growth parameters between nutrient treatment, inoculation, and their interaction, with the random factors “Tank” and “Inoculation nested in Tank”. Significant results are shown in bold ($p < 0.05$). DW = dry weight, dpi = days post inoculation

	Variable	F	df	Res-df	P	Var	StdDev
<i>Labyrinthula</i> cells (2 dpi) [cells mg⁻¹ eelgrass DW]	Nutrient	<0.001	1	8	0.984		
	Inoculation	73.608	1	4	0.001		
	Nutrient×Inoculation	3.056	1	4	0.155		
	Tank					39.2	6.261
	Tank(Inoculation)					218.8	14.792
WDI - Leaf 2 & 3 [categorical index]	Nutrient	0.012	1	9	0.915		
	Inoculation	220.498	1	4	<0.001		
	Nutrient×Inoculation	3.286	1	4	0.138		
	Day	223.761	1	399	<0.001		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000
	Plant ID					0.133	0.364
Leaf growth rate [cm day⁻¹]	Nutrient	1.116	1	8	0.3256		
	Inoculation	1.872	1	4	0.2294		
	Nutrient×Inoculation	0.004	1	4	0.9562		
	Tank					0.000	0.000
	Tank(Inoculation)					0.035	0.187
Biomass [g]	Nutrient	8.978	1	8	0.017		
	Inoculation	0.651	1	4	0.465		
	Nutrient×Inoculation	0.558	1	4	0.497		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000
Shoot production [number of sideshoots main shoot⁻¹]	Nutrient	5.894	1	8	0.041		
	Inoculation	1.284	1	4	0.321		
	Nutrient×Inoculation	0.472	1	4	0.530		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000
Leaf production [number of leaves main shoot⁻¹]	Nutrient	0.670	1	8	0.437		
	Inoculation	0.074	1	4	0.799		
	Nutrient×Inoculation	0.930	1	4	0.390		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000

Table S2. Results of a linear mixed model ANOVA for gene expression $-\Delta C_T$ values of 15 targeted genes between nutrient treatment, inoculation and their interaction. For gene abbreviations see Table 5 in the main article. Significant results are shown in bold ($p < 0.05$).

	Variable	F	df	Res-df	P	Var	StdDev
SOD	Nutrient	3.8107	1	8	0.089		
	Inoculation	42.0630	1	4	0.002		
	Nutrient×Inoculation	3.6690	1	4	0.128		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.000	0.000	
GST	Nutrient	0.800	1	8	0.397		
	Inoculation	25.531	1	4	0.007		
	Nutrient×Inoculation	6.862	1	4	0.059		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.113	0.336	
APX	Nutrient	0.115	1	8	0.744		
	Inoculation	0.920	1	4	0.390		
	Nutrient×Inoculation	0.008	1	4	0.931		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.000	0.000	
CAT	Nutrient	0.009	1	8	0.928		
	Inoculation	15.879	1	4	0.015		
	Nutrient×Inoculation	0.789	1	4	0.425		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.000	0.000	
Hsp80	Nutrient	0.567	1	8	0.473		
	Inoculation	11.227	1	4	0.032		
	Nutrient×Inoculation	0.530	1	4	0.507		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.580	0.762	
Hsp70	Nutrient	3.126	1	6	0.130		
	Inoculation	8.364	1	4	0.042		
	Nutrient×Inoculation	2.223	1	4	0.210		
	Tank				0.245	0.138	
	Tank(Inoculation)				0.019	0.138	
STS	Nutrient	0.026	1	8	0.875		
	Inoculation	0.402	1	4	0.560		
	Nutrient×Inoculation	0.057	1	4	0.822		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.000	0.000	
FBiA	Nutrient	0.360	1	8	0.565		
	Inoculation	0.938	1	4	0.388		
	Nutrient×Inoculation	0.674	1	4	0.458		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.083	0.289	
Chl_synth	Nutrient	0.091	1	8	0.771		
	Inoculation	22.135	1	4	0.009		
	Nutrient×Inoculation	0.545	1	4	0.501		
	Tank				1.750	1.323	
	Tank(Inoculation)				0.000	0.000	
RuBisCO	Nutrient	0.367	1	8	0.561		
	Inoculation	13.594	1	4	0.021		
	Nutrient×Inoculation	0.655	1	4	0.463		
	Tank				0.009	0.097	
	Tank(Inoculation)				0.000	0.000	
Metacasp	Nutrient	0.439	1	8	0.526		
	Inoculation	0.126	1	4	0.742		
	Nutrient×Inoculation	0.023	1	4	0.888		
	Tank				0.000	0.000	
	Tank(Inoculation)				0.000	0.000	

	Variable	F	df	Res-df	P	Var	StdDev
<i>CTL1</i>	Nutrient	0.108	1	8	0.751		
	Inoculation	14.867	1	4	0.018		
	Nutrient×Inoculation	0.133	1	4	0.734		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000
<i>RppA</i>	Nutrient	1.810	1	8	0.217		
	Inoculation	7.270	1	4	0.058		
	Nutrient×Inoculation	0.870	1	4	0.404		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000
<i>pl 206</i>	Nutrient	0.023	1	8	0.884		
	Inoculation	0.176	1	4	0.697		
	Nutrient×Inoculation	0.141	1	4	0.727		
	Tank					3.044	1.745
	Tank(Inoculation)					0.253	0.503
<i>CYP73A</i>	Nutrient	0.564	1	8	0.472		
	Inoculation	68.406	1	4	0.001		
	Nutrient×Inoculation	0.199	1	4	0.679		
	Tank					0.000	0.000
	Tank(Inoculation)					0.000	0.000