

Appendix III - Cited in Chapter 4

**Appendix III.I.** Analysis of variance of the mean of percent of infected roots of *Quercus suber* under four treatments (immersion in): mineral salt solution (MSS); MSS with 10 mg ml<sup>-1</sup> PRE (Extract); MSS with 10 mg ml<sup>-1</sup> PRE and *Phytophthora cinnamomi* zoospores (extract + zoospores) and MSS with zoospores (zoospores) (Experiment 4.1).

**Multiple Comparisons**

Dependent Variable: Percent\_infected\_roots  
LSD

(I) Treatment	(J) Treatment	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
MSS	Extract	.0000	5,1031	1,000	-11,768	11,768
	Extract + zoospores	-12,5000 <sup>*</sup>	5,1031	,040	-24,268	-,732
	zoospores	-100,0000 <sup>*</sup>	5,1031	,000	-111,768	-88,232
Extract	MSS	.0000	5,1031	1,000	-11,768	11,768
	Extract + zoospores	-12,5000 <sup>*</sup>	5,1031	,040	-24,268	-,732
	zoospores	-100,0000 <sup>*</sup>	5,1031	,000	-111,768	-88,232
Extract + zoospores	MSS	12,5000 <sup>*</sup>	5,1031	,040	-,732	24,268
	Extract	12,5000 <sup>*</sup>	5,1031	,040	-,732	24,268
	zoospores	-87,5000 <sup>*</sup>	5,1031	,000	-99,268	-75,732
zoospores	MSS	100,0000 <sup>*</sup>	5,1031	,000	88,232	111,768
	Extract	100,0000 <sup>*</sup>	5,1031	,000	88,232	111,768
	Extract + zoospores	87,5000 <sup>*</sup>	5,1031	,000	75,732	99,268

\*. The mean difference is significant at the 0.05 level.

**Appendix III.II.** Analysis of variance of the mean of percent of infected roots of *Quercus ilex* subsp. *rotundifolia* under eight treatments (immersion in): mineral salt solution (MSS); (2) MSS with 1 mg ml<sup>-1</sup> PRE (Extract 1 mg/ml); MSS with 5 mg ml<sup>-1</sup> PRE (Extract 5 mg/ml); (4) MSS with 10 mg ml<sup>-1</sup> PRE (Extract 10 mg/ml); (5) MSS with 1 mg ml<sup>-1</sup> PRE and *Phytophthora cinnamomi* zoospores (Extract 1 mg/ml + zoospores); (6) MSS with 5 mg ml<sup>-1</sup> PRE and *P. cinnamomi* zoospores (Extract 5 mg/ml + zoospores); (7) MSS with 10 mg ml<sup>-1</sup> PRE and *P. cinnamomi* zoospores (Extract 10 mg/ml + zoospores); and (8) MSS with zoospores (zoospores) (Experiment 4.2).

**Comparações múltiplas**

Varável dependente: Mean\_of\_Percent\_infected\_roots  
DMS

(I) Treatment	(J) Treatment	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
MSS	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 5mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 10mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml+ zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	Extract 5mg/ml+ zoospores	-8,0000 <sup>*</sup>	2,4495	,003	-12,989	-3,011
	Extract 10mg/ml+ zoospores	.0000	2,4495	1,000	-4,989	4,989
	Zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	MSS	.0000	2,4495	1,000	-4,989	4,989
Extract 1mg/ml	Extract 5mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 10mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml+ zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	Extract 5mg/ml+ zoospores	-8,0000 <sup>*</sup>	2,4495	,003	-12,989	-3,011
	Extract 10mg/ml+ zoospores	.0000	2,4495	1,000	-4,989	4,989
	Zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	MSS	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
Extract 5mg/ml	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 10mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml+ zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	Extract 5mg/ml+ zoospores	-8,0000 <sup>*</sup>	2,4495	,003	-12,989	-3,011
	Extract 10mg/ml+ zoospores	.0000	2,4495	1,000	-4,989	4,989
	Zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	MSS	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
Extract 10mg/ml	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 5mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml+ zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	Extract 5mg/ml+ zoospores	-8,0000 <sup>*</sup>	2,4495	,003	-12,989	-3,011
	Extract 10mg/ml+ zoospores	.0000	2,4495	1,000	-4,989	4,989
	Zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	MSS	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
Extract 1mg/ml+ zoospores	Extract 5mg/ml	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 10mg/ml	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 1mg/ml+ zoospores	92,0000 <sup>*</sup>	2,4495	,000	87,011	96,989
	Extract 5mg/ml+ zoospores	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Zoospores	.0000	2,4495	1,000	-4,989	4,989
	MSS	8,0000 <sup>*</sup>	2,4495	,003	3,011	12,989
	Extract 1mg/ml	8,0000 <sup>*</sup>	2,4495	,003	3,011	12,989
	Extract 5mg/ml	8,0000 <sup>*</sup>	2,4495	,003	3,011	12,989
Extract 5mg/ml+ zoospores	Extract 10mg/ml	-92,0000 <sup>*</sup>	2,4495	,000	-96,989	-87,011
	Extract 1mg/ml+ zoospores	8,0000 <sup>*</sup>	2,4495	,003	3,011	12,989
	Zoospores	-92,0000 <sup>*</sup>	2,4495	,000	-96,989	-87,011
	MSS	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 5mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 10mg/ml	.0000	2,4495	1,000	-4,989	4,989
	Extract 1mg/ml+ zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
Extract 10mg/ml+ zoospores	Extract 5mg/ml+ zoospores	-8,0000 <sup>*</sup>	2,4495	,003	-12,989	-3,011
	Zoospores	-100,0000 <sup>*</sup>	2,4495	,000	-104,989	-95,011
	MSS	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 1mg/ml	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 5mg/ml	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 10mg/ml	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989
	Extract 1mg/ml+ zoospores	.0000	2,4495	1,000	-4,989	4,989
	Extract 5mg/ml+ zoospores	92,0000 <sup>*</sup>	2,4495	,000	87,011	96,989
Zoospores	Extract 10mg/ml+ zoospores	100,0000 <sup>*</sup>	2,4495	,000	95,011	104,989

\*. A diferença média é significativa no nível 0.05.

**Appendix III.III.** Analysis of variance of the mean of percent of infected roots of *Quercus suber*. Roots were either immersed in mineral salt solution (MSS) or in MSS with 10 mg ml<sup>-1</sup> PRE (PRE) 24 h prior to infestation. After 24 h, all solutions were discarded. A group of roots that were in MSS continued in MSS (MSS) and another group was immersed in a zoospore suspension (zoospore). A group of roots that were immersed in MSS with 10 mgml<sup>-1</sup> PRE continued in PRE (PRE) and another group were immersed in zoospores (PRE+zoospores). (Experiment 4.3).

**Comparações múltiplas**

Variável dependente: Mean\_of\_Percent\_infected\_roots

DMS

(I) Treatment	(J) Treatment	Diferença média (I-J)	Erro Padrão	Sig.	Intervalo de Confiança 95%	
					Limite inferior	Limite superior
MSS	PRE	.0000	8,9876	1,000	-18,307	18,307
	PRE+zoospores	-52,7778 <sup>a</sup>	8,9876	,000	-71,085	-34,471
	Zoospores	-73,6111 <sup>a</sup>	8,9876	,000	-91,918	-55,304
PRE	MSS	.0000	8,9876	1,000	-18,307	18,307
	PRE+zoospores	-52,7778 <sup>a</sup>	8,9876	,000	-71,085	-34,471
	Zoospores	-73,6111 <sup>a</sup>	8,9876	,000	-91,918	-55,304
PRE+zoospores	MSS	52,7778 <sup>a</sup>	8,9876	,000	34,471	71,085
	PRE	52,7778 <sup>a</sup>	8,9876	,000	34,471	71,085
	Zoospores	-20,8333 <sup>a</sup>	8,9876	,027	-39,141	-2,526
Zoospores	MSS	73,6111 <sup>a</sup>	8,9876	,000	55,304	91,918
	PRE	73,6111 <sup>a</sup>	8,9876	,000	55,304	91,918
	PRE+zoospores	20,8333 <sup>a</sup>	8,9876	,027	2,526	39,141

<sup>a</sup> A diferença média é significativa no nível 0.05.

**Appendix III.IV.** Comparison of means of percent of infected roots of *Quercus suber*. Roots were either immersed in mineral salt solution (MSS) or in MSS with 10 mg ml<sup>-1</sup> PRE (PRE) 24 h prior to infestation. After 24 h, all solutions were discarded. A group of roots that were in MSS continued in MSS (MSS) and another group was immersed in a zoospore suspension (zoospore). A group of roots that were immersed in MSS with 10 mgml<sup>-1</sup> PRE continued in PRE (PRE) and another group were immersed in zoospores (PRE + zoospores). (Experiment 4.3).

**Descritivos<sup>a,b</sup>**

Treatment		Estadística	Erro Padrão				
Mean_of_Percent_infected_roots	PRE+zoospores	Média	52,778	10,1588			
		95% Intervalo de Confiança para Média	Limite inferior	29,351			
			Limite superior	76,204			
		5% da média aparada		53,086			
		Mediana		50,000			
		Variância		928,819			
		Desvio Padrão		30,4765			
		Mínimo		12,5			
		Máximo		87,5			
		Intervalo		75,0			
		Intervalo interquartil		62,5			
		Assimetria		-,064	,717		
		Curtose		-1,547	1,400		
		Zoospores	Zoospores	Média	73,611	7,6389	
				95% Intervalo de Confiança para Média	Limite inferior	55,996	
					Limite superior	91,226	
				5% da média aparada		74,151	
Mediana				75,000			
Variância				525,174			
Desvio Padrão				22,9167			
Mínimo				37,5			
Máximo				100,0			
Intervalo				62,5			
Intervalo interquartil				43,8			
Assimetria				-,105	,717		
Curtose				-1,176	1,400		

<sup>a</sup> Mean\_of\_Percent\_infected\_roots é constante quando Treatment = MSS. Foi omitida.

<sup>b</sup> Mean\_of\_Percent\_infected\_roots é constante quando Treatment = PRE. Foi omitida.

<sup>a</sup> Mean\_of\_percent\_infected\_roots is constant when Treatment=MSS. It was omitted.

<sup>b</sup> Mean\_of\_percent\_infected\_roots is constant when Treatment=PRE. It was omitted.