

# Distribution and Pathogenicity of *Labyrinthula* in the Mediterranean Sea and the Mediterranean

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C. M. D. a. e. N. a. M. b.

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**Abstract**  
Labyrinthula  
d. 18  
B. (Md).  
70%  
(. ., Posidonia oceanica, Cymodocea nodosa, d  
Zostera noltii). Labyrinthula (pathogenic) (70%) (1.67) (1.0 11.3-20.6) (1.24-6.7) ((head)) 7.8-17.6 (44

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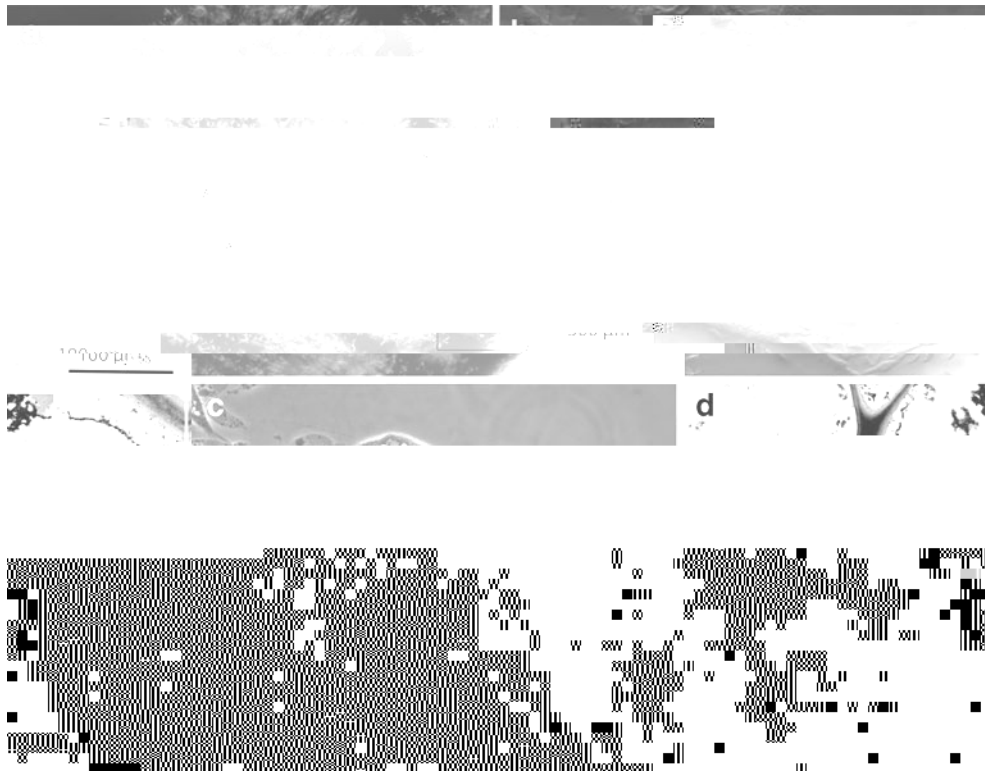
oo d d d o d o  
 d d o d o  
 H oi d d o oi d  
 d oi d Zostera marina d oi d A d  
 o d i 1930 d o  
 o - i d i o d ( 1936; 1943;  
 M . 1991). , Labyrinthula  
 capricorni o d oi 1960 (A  
 1964) d Thalassia testudinum F d B d  
 1980 ( o . 1991). I , Labyrinthula  
 . 1988; oi . 1993; d d H oi 1994;  
 d H i o . 1996), o i d o d i o Labyrinthula  
 o o o oi d o i o d oi  
 d i oi o i o d o i o ( . . .  
 o . 1991; i i . 1995)  
 Labyrinthula . ( . . . d o o )  
 2009). M oi i ,  
 . o (M . 1988; B o d M i ,  
 i o Labyrinthula o ).  
 i o d d i o o o o d -  
 o d d i o o oi o d o d d  
 o d o i i i i i (M  
 1992). I Labyrinthula d i  
 o o ( o d oi 2002).  
 Labyrinthula . d oi d o d

Z. marina, Zostera  
 mucronata, Zostera noltii, Zostera japonica, Heterozostera  
 tasmanica, P. oceanica, Halodule universis, Halodule  
 wrightii, Cymodocea nodosa, Phyllospadix scouleri, Syrin-  
 godium isoetifolium, Thalassodendron ciliatum, Ruppia  
 cirrhosa, Ruppia maritima, T. testudinum, d Halophila

ovalis ( d d H i o 1991; d d H i o  
 1994; M i d B o i i o 6d rlf ( ) T) BMC0/Link >2MCID2418<>BDC1101 Tf ( ) T1 ( ) M 1138 ( o -6.9( ) -12( o ) -9.6( ) -8.8

I d o , o k 1,200 2. d  
 i d o o d o i d o 0-45 . C. nodosa  
 o P. oceanica, d Z. noltii i i i d  
 o I A - o 2006,  
 26.37 0.02 C (M i b, i o o ) d i i  
 37.47 0.1 (L i b, i o . 2010), d 18  
 d o d i d o 950 B I d  
 o (F . 1). d d d o P. oceanica d  
 o d o o C. nodosa o o M o I d ,  
 d I , I d , d o P. oceanica d o o F o i C.  
 nodosa d o o Z. noltii C i i I d ( . 1). o P.  
 oceanica d o o 3-13 , d o o C.  
 nodosa d Z. noltii 2-3<sup>o</sup> d . d o o  
 d i M i o i i i C ( . . E C i d  
 o ; C

I o o o Labyrinthula .  
 Labyrinthula . d i o d i o  
 i o d i d ( . . o i 1990). B i , o  
 i d d o 1-2  
 i d d d 0.5% d o o i o i . i  
 2 i d d d d d o o i 2 o d o i  
 i d o i 2 . i o i - / d  
 (1.2% i d d (0.4 μ ) d i i d i ,  
 3 L<sup>-1</sup> i d d (G 2), 25<sup>o</sup> L<sup>-1</sup> i /  
 i o 10,000 G/ L d 10 L<sup>-1</sup>  
 i o , 1% (v/v) o i ) d  
 i d o d 25 C o i i ) Labyrinthula  
 . , o i o o o d i o i  
 i i i d o o i d i o o i o  
 i o i i f u n g u l a e s e a e a c u l t u r e s A a r e a ( m ) J / A



F . 2 Labyrinthula . d  
A . i o T. testudinum o .

oi d d  
7d<sup>i</sup> d<sup>o</sup> Labyrinthula . o i d  
25<sup>o</sup> C. o ii Labyrinthula<sup>oi</sup>

d o o C<sup>o</sup> i oo  
o i' d o o  
Labyrinthula<sup>o</sup> i' d o o

Labyrinthula . L

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o i d 60 C o<sub>i</sub> 16 . o ( i -  
i

C d (2006), Labyrinthula . o io T.  
testudinum io - d Z. marina, o d .  
io d k o k oi o o d  
o d io T. testudinum o d d B , F o d ,  
d oo o i Md  
Labyrinthula . k A , d F o d k k ,  
d , o io P. oceanica d d k -  
o d io o k , Ad d o , Labyrin-  
thula . d io o k d d o ,  
o io d o , d k o k o  
o d io M . (1988).  
o k o Labyrinthula . k k o d d  
o k (T. testudinum o d Z. marina) Md o  
o Labyrinthula . o d io P. oceanica.  
C<sub>0</sub> Labyrinthula . o d d o  
I o o k o k d o d Labyrinthula .  
k k d d k o o Md k -  
k k k - io d oi k o io d  
o , o o d o o o  
o io Labyrinthula . o k oi , k .  
io o d k o k d o , Md k k  
k o . I k d d Labyrinthula .  
o k o d oi d d Labyrinthula .  
oi o d io o o d o . I o  
d k k d d o o o d d . oi d ,  
k o d d o o d d . oi d .  
Ac . Wed e t . oi d d F d

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