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**Online Resource 2** Fate of failed cultures

<b>Taxon</b>	<b>Cause of Death</b>
<i>Arthonia rubrocincta</i> <sup>g</sup>	L
<i>Bacidia mutabilis</i>	Ib
<i>Baeomyces rufus</i>	C
<i>Brigantiaea leucoxantha</i>	I
<i>Caloplaca</i> sp. 2	Ib
<i>Caloplaca cerina</i> *	Ib
<i>Arthonia</i> sp.	C
<i>Cratiria obscurior</i> *	L
<i>Cresponea proximata</i>	Ib
<i>Lecanora</i> sp.	C
<i>Dibaeis baeomyces</i>	U
<i>Dyplolabia afzelii</i>	I
<i>Eremithallus marusae</i>	I
<i>Fulgensia poeltii</i>	C
<i>Graphis</i> sp.*	Ib
<i>Haematomma</i> cf. <i>accolens</i>	C
<i>Lasallia pustulata</i>	I
<i>Leucodecton</i> sp.*	Ic
<i>Multiclavula</i> sp.	U
<i>Ochrolechia</i> sp.	C
<i>Pertusaria amara</i>	C
<i>Physcia stellaris</i>	L
<i>Porpidia albocaerulescens</i>	I
<i>Pterygiopsis neglecta</i>	I
<i>Pyrenula pseudobufonia</i>	C
<i>Ramalina</i> sp.	C
<i>Heterocyphelium leucampyx</i>	I
<i>Teloschistes hosseusianus</i>	C
<i>Teloschistes chrysophthalmus</i>	Ib
<i>Trypethelium virens</i>	C
<i>Mazaedothecium album</i> *	Ib
<i>Umbilicaria</i> sp.	I
<i>Vulpicida canadensis</i>	I
<i>Xanthomendoza hasseana</i>	U
<i>Xanthoria aureola</i>	Ib
<i>Xanthoria parietina</i>	U

C = Contaminated; L = Too long between transfers;  
 I = Insufficient growth; Ib\_CBS = Insufficient growth at  
 CBS, some frozen material at Duke; Ic = Insufficient  
 growth, some frozen material at Duke; O = Over-  
 homogenized; U = Under-homogenized; \* used for the  
 AFToL 2 project; <sup>g</sup>=genome sequenced at Duke.