

**THE PENNSYLVANIA STATE UNIVERSITY
DISEASE COLLECTION
MISCELLANEOUS DISEASES AND COMPOST FUNGI
MAINTAINED IN LIQUID NITROGEN : 5K #I**

June 1, 2017

<i>Acremonium</i>		
2		4-5; 14,15,16
<i>Acrostalagmus cimbarium</i>		
3	1938	4-2; 90,99,100
<i>Actinomyces</i>		
111	PJW; Canada	4-1; 83,84,85,86
<i>Alternaria alternata</i>		
186	FED; 1989	3-1; 59,60
<i>Arthrobotrys</i>		
5	1975	4-2; 86,87,88,89
<i>Aspergillus flavipes</i>		
7	1945	4-3; 28,29,30
<i>Aspergillus flavus</i>		
8		4-3; 38,39,40
<i>Aspergillus fumigatus</i>		
146	1980; LCS; compost from old Swayne bed plant; G.S.P. Kennett Square.	4-1; 71,72,81,82
<i>Aspergillus niger</i>		
9		4-2; 68,69,70
<i>Aspergillus sp.</i>		
188	Green; FED; 1990	3-1; 41,42
201	Black; FED; 1988	3-1; 79,80
<i>Aspergillus versicolor</i>		
187	Yellow; FED; 1988	3-1; 49,50
<i>Botryosporum sp.</i>		
198	FED; 1988	3-1; 65,66
<i>Botryotrichum sp.</i>		
12	Jim Correll; 1975	4-1; 35,36,37,38
189	Sandy Green, FED, 1990	3-1; 43,44
<i>Chaetomium sp.</i>		
14	White; Ackerman	4-3; 20,21,22,23
15	White; Dr. Seeve; Canada	4-3; 16,17,18,19
16	White; Duluth	4-3; 12,13,14,15
17	Kligman J. V.	4-2; 92,93,94,95
18	#1	4-3; 8,9,10,11
20	#3	4-3; 1,2,3
21	W.W.	4-2; 96,97,98
<i>Chaetomium olivaceum</i>		
19		4-3; 4,5,6,7

Chrysosporium

- 46 Myceliophora,; White 4-1; 75,76,77,78
47 Myceliophora; R-35; Brown 4-1; 69,70,79,80
48 Myceliophora; Sinden; Brown 4-1; 65,66,67,68

Cladobotryum (Dactylium) sp.

- 28 1970; Jodon; Clinic 4-2; 77,78,79,80
177 1982; Ostrom MR Farm, Washington 4-5; 31,41
294 Isolated from Cobweb-diseased mushroom sample obtained from
Yeatman; Chester County; DMB, 2000; two-celled conidia 3-2; 81,82
298 Isolated from ToJo Mushrooms; 5/2003 3-2; 99
299 Isolated from Cobweb-diseased mushroom sample obtained from
Sunset Mushrooms; Chester County; 2000; DMB;
two-celled conidia 3-2; 91,93
300 Isolated from Cobweb-diseased mushroom sample obtained from
Kaolin's; Chester County; 2000; DMB; two-celled conidia 3-2; 93,94
301 Isolated from Cobweb-diseased mushroom sample obtained from
Monterey Mushrooms- Temple Farm; Chester County; 2000;
DMB; two-celled conidia 3-2; 95,96
302 Isolated from Cobweb-diseased mushroom sample obtained from
Creekside Mushroom; 2000; DMB; two-celled conidia 3-2; 97,98
304 Collected at Pietro Mushrooms; 5/2003 3-2; 100

Cladobotryum mycophilum Type II

- 305 Collected from Skip Pannell at Hillcrest Farms, Kennett Square,
PA; 6/23/03 5-2; 29
306 Collected from Joe Vallorani, Toughkenamon, PA; 6/23/03 5-2; 30
307 Non-organic sample X-#12; C.P. Yeatman & Sons; Avondale,
PA; 6/23/03 5-2; 31
308 Collected from Leo, Toughkenamon, PA; 6/23/04 5-2; 32
309 E. Leo; 8-8-03 5-2; 33
310 C.P. Yeatman & Sons; House #74; Avondale, PA; 6/18/03 5-2; 34
311 Sher Rockee Farms; 5-14-03 5-2; 35
312 Tom Versagli, Giorgio Mushrooms, Temple, PA; 6/18/03 5-2; 36
313 Mike Bascani; Avondale, PA; 6/18/03 5-2; 37
314 Gourmet Delight; Richie Pia; Avondale, PA; 6/18/03 5-2; 38
315 Kaolin Mushrooms; 2003 5-2; 39
316 Gaspari Mushroom Farm; Joe Plegeman; 10/6/03 5-2; 40

Cladosporium cladosporioides

- 190 Black; FED; 1990 3-1; 45,46

Cokeromyces

- 109 PJW; Canada 4-3; 52,53,54

Cunninghamella

- 23 PJW; Canada 4-2; 82,83,84,85

Dactylium dendroides

- 26 R-54 4-2; 71,72,73,81
27 #2 4-2; 74,75,76

<i>Dendrodochium sp.</i>		
	30	4-1; 33,34
<i>Diehliomyces sp.</i>		
	34 1970; Clinic; #5166	4-5; 32,33,34,35
<i>Doratomyces sp.</i>		
	94 #1	4-4; 16,17,18
	95 #2	4-4; 12,13,14,15
<i>Doratomyces stemonitis</i>		
	197 "Whisker Mold"; FED; 1989	3-1; 63,64
'Flour Mold'		
	80 Clinic; #5448	4-5; 4,5,6
<i>Fusarium graminearum</i>		
	191 Yellow; FED; 1988	3-1; 47,48
<i>Fusarium oxysporum</i>		
	35 Indiana; MR Co.	4-2; 65,66,67
<i>Geotrichum sp.</i>		
	36 White, #1	4-4; 51,61,62,63
	37 White, #2	4-4; 52,53,54
<i>Gliocladium sp.</i>		
	39 #1	4-2; 63,64
	40 Knaust; #2	4-4; 4,5,6,7
<i>Glodadium virens</i>		
	202 FED; 1990	3-1; 77,78
<i>Gliomastix sp.</i>		
	192 White; FED; 1990	3-1; 57,58
	193 Dark Green; FED; 1989	3-1; 55,56
<i>Humicola sp.</i>		
	194 Light Green-Brown; FED; 1990	3-1; 53,54
<i>Melbranchia pulchella</i>		
	43 1961; Dr. Pope	4-2; 53,54,55,56
<i>Meria sp.</i>		
	42 PJW	4-5; 1,2,3
<i>Mortierella sp.</i>		
	113 1978; Jim Correll	4-1; 5,6,7,8
	199 FED; 1989	3-1; 67,68
<i>Mucor sp.</i>		
	45 1957; Merek	4-2; 51,52,61,62
	203 FED, 1989	3-1; 75,76
	204 FED, 1990	3-1; 73,74
<i>Mycogone sp.</i>		
	50 #1; Gibson; Chester, PA	4-1; 61,62,63,64
	51 #2;	4-1; 51,52,53
	52 #3; Berzal; 1974; New York	4-1; 54,55,56,57
	53 #4; 1950; Butler Co., PA	4-1; 58,59,60
	54 #5; Horlacher; 1978; Ohio	4-1; 47,48,49,50
	176 B2; 1982; DeSantis Brothers; Berks Co., PA	4-5; 45,46

Mycogone sp.: continued

178	WC1; 1982; Slacks Mr Farm; Waterloo, Canada	4-5; 42,43,44
180	B3; 1982; Angelo Pellegrini Farm; Berks Co., PA	3-1; 18,19,20
181	W2; 1982; Ostrum MR Farm, WA	3-1; 21,22,23,24

Myriococcum thermophilum

327	82.2.9(CBS 208.89); mushroom compost;12/06.	5-2;53,54
328	T49.66;CBS;Pig pen Litter;12/06	5-2;55,56

Oospora lactis

1		4-3; 24,25,26,27
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Oedocephalum sp.

59	Clinic; #5141	4-3; 64,65,66,67
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Oidiodendron sp.

60	1976; St. Louis	4-1; 43,44,45,46
61	1976; California	4-1; 31,32,41,42
195	1990; FED	3-1; 51,52

Ostracoderma sp.

200	1989; FED	3-1; 68,70
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Paecilomyces sp.

63	Ron Jon	4-4; 55,56,57
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Paecilomyces variotii

64	1978; Cathy Harvey	4-4; 58,59,60
265	(Bainier), identified by CBS, Baarn, The Netherlands; brownish-yellow; isolated from MRC compost; exhibits resistance to <i>Trichoderma</i> in vitro; 1998.	5-1; 34,35,36

Papulaspora byssina

55	#1; <i>Myriococcum praecox</i>	4-3; 47,48,49,50
56	<i>Myriococcum</i> ; Bonifacino	4-5; 17,18,19,20

Penicillium aurantiogriseum

279	Spawn; HRI 280; Helen Grogan; 8/6/99	5-1; 76,77
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Penicillium brevicompactum

264	(Dierckx), identified by CBS, Baarn, The Netherlands; green isolated from MRC compost; exhibits resistance to <i>Trichoderma</i> in vitro; 1998.	5-1; 31,32,33
281	Spawn run compost; HRI #562B; Helen Grogan; 8/6/99	5-1; 72,73

Penicillium chrysogenum

278	Spawn; HRI #258; Helen Grogan; 8/6/99	5-1; 78,79
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Penicillium echinulatum

280	Spawn run compost; HRI #562A; Helen Grogan; 8/6/99	5-1; 74,75
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Penicillium janczewskii

277	Spawn run compost; HRI # 113C; Helen Grogan; 8/6/99	5-1; 70,80
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Penicillium luteum

65	1945; Australia	4-3; 33,34,35
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<i>Penicillium miczynski</i>		
66	#5199 Clinic; Light	4-4; 36,37,38,39
67	#5199 Clinic; Dark	4-4; 28,29,30,40
69	#5316 Clinic	4-4; 21,22,23,24
<i>Penicillium purpurogenum</i>		
214	1989; Gray-Green Spores; Small Conidiophores; Slow; FED	3-1; 93,94
<i>Penicillium sp.</i>		
68	#5315 Clinic	4-4; 25,26,27
70	#5448 Clinic	4-4; 19,20
210	Yellow Green Spore; FED; 1988	3-1; 89,90
211	Gray Green Spore; FED; 1988	3-1; 99, 100
212	Green Spore; FED; 1989	3-1; 97,98
213	Moss Green Spore; FED; 1989	3-1; 95,96
215	Green Spore; FED; 1989	3-1; 91,92
216	Dark Green Spore; FED; 1989	3-2; 1,2
217	Dark Green Spore; FED; 1990	3-2; 3,4
218	Light Gray Green Spore; FED; 1990	3-2; 5,6
219	Dark Green Long Thin Spore Chains; FED; 1990	3-2; 7,8
283	Smokey Mould; Phase III compost; HRI # 1043D; Helen Grogan; 8/6/99	5-1; 82,83
284	Spawn run compost; HRI # 343E1; Helen Grogan; 8/6/99	5-1; 84,85
285	Spawn run compost; HRI # 277P1; Helen Grogan; 8/6/99	5-1; 86,87
297	Multiple PA farms with spotting mushrooms; 12/15/2000	3-2; 87, 88
<i>Penicillium spinulosum</i>		
282	Casing; HRI # 565 B; 8/6/99	5-1; 71,81
<i>Pyronema confluens</i>		
71		4-3; 76,77,78,79
<i>Rhizopus sp.</i>		
110	PJW; Canada	4-1; 73,74
<i>Scytalidium thermophilum</i>		
295	CBS # 15.8; Phase II compost; 2000	3-2; 83, 84
296	CBS # 144.4a; Phase II compost; 2000	3-2; 85, 86
<i>Scopulariopsis sp.</i>		
72	#1	4-3; 41,42,43
73	#2	4-3; 31,32,33,34
<i>Scopulariopsis koningi</i>		
75	1947	4-3; 35,36,37
<i>Sepedonium sp.</i>		
76	#1	4-3; 88,89,90,100
77	#2	4-3; 84,85,86,87
78	#3	4-3; 71,81,82,83
79	#4	4-3; 72,73,74,75
<i>Septonema sp.</i>		
196	1990; FED	3-1; 61,62

<i>Spicaria sp.</i>		
82	#2	4-4; 47,48,49,50
83	#3	4-4; 43,44,45,46
84	#4	4-5; 36,37,38,39
85	#5; Leaver	4-4; 31,32,41,42
<i>Sporendonema sp.</i>		
87	#1	4-3; 58,59,60
88	#2; Chester Co.	4-5; 21,22,23
<i>Sporobolomyces sp.</i>		
89	#1	4-3; 44,45,46
90	#2	4-5; 11,12,13
<i>Sporotrichum sp.</i>		
91	#1; Indiana Mr. Co.	4-5; 7,8,9,10
92	#2	4-4; 92,93,94,95
<i>Syzygites megalocarpus</i>		
342	NRRL # 54814; USDA ARS Culture Collection; DMB: 12/2014	5-2; 83,84,85
343	NRRL # 54815; USDA ARS Culture Collection; DMB: 12/2014	5-2; 86,87,88
344	NRRL # 54819; USDA ARS Culture Collection; DMB: 12/2014	5-2; 89,90,91
345	From <i>A.bisporus</i> brown at PA Farm, JAP/JGD; 1/19/17	5-2; 92,93,94
<i>Thermoidium sulfurescens</i>		
96	1967; Dr. Pope	4-3; 55,56,57
<i>Thermomyces lanuginosus</i>		
303	ATCC # 200065; Phase II Peak- heated compost; Denmark; single spore isolate; 2001; grows at 50 C.	3-2; 89,90
<i>Trichoderma aggressivum f. aggressivum (Ta2)</i>		
266	Th 4; 1999; NJC; Bed board wood at Giorgi Mushroom Co.	5-1;37,38,39
267	Th 4; 1999; NJC; Bed board wood at Kaolin Mushroom Farm	5-1;40,41,42
268	Th 4; 1999; NJC; Bed board wood at C.P.Yeatman & Sons, Inc.	5-1;43,44,45
291	Th 4; 1999; Rinker and Alm in Canada; #2876	5-1; 92,93
292	Th 4; 1999; Rinker and Alm in Canada; #1649	4-1; 91,92
293	Th 4; 2000; Chang Farm; DMB	3-2; 71,72
325	#114;1996; Chester Co. farm; Romaine; Benomyl & Thiophanate-methyl sensitive.	5-2; 49, 50
326	# 342; 2005; Chester Co. farm; Romaine; Benomyl & Thiophanate-methyl Resistant.	5-2; 51,52
337	Peat; PA Farm; DMB 8/11	5-2; 73,74
<i>Trichoderma harzianum</i>		
149	1981	4-4; 1,2,3
209	1990; FED	3-1; 87,88
286	Th 1;1999; Samuels in US; GJS #95-43	5-1:88,89
287	Th 1;1999; Romaine in US; #64	5-1: 90,100
288	Th 2; 1999; Mills in UK; CBS # 100525	5-1: 98,99
289	Th 3; 1999; Rinker and Alm in Canada; #1550	5-1; 96,97
290	Th 3;1999;Rinker and Alm in Canada; #2676	5-1; 94,95
<i>Trichoderma sp.</i>		
98	#1; Spawn; PJW	4-1; 21,22,23,24
99	#2; Mixed Spawn; PJW	4-1; 17,18,19,20

Trichoderma sp.: continued

100	#3	4-1; 29,30,39,40
101	#4; Koningi	4-1; 87,88,89,90
104	Walton	4-1; 13,14,15,16
105	#5479; Clinic	4-1; 9,10,11,12
106	#5201; Clinic	4-1; 1,2,3,4
179	1982; Ostrom MR Farm; Olympia, Washington	3-1; 13,14,15,16
205	1988; FED	3-1; 71,72
206	1988; FED	3-1; 81,82
207	1989; FED	3-1; 83,84
269	1999; NJC; Bed board wood at Giorgi Mushroom Co.	5-1;46,47,48
270	1999; NJC; Bed board wood at Gino Gaspari & Sons, Inc.	5-1;49,50,51
271	1999; NJC; Bed board wood at Giorgi Mushroom Co.	5-1;52,53,54
272	1999; NJC; Bed board wood at John C. Leo & Son	5-1;55,56,57
273	1999; NJC; Bed board wood at Kaolin Mushroom Farms, Inc.	5-1;58,59,60
274	1999; NJC; Bed board wood at Gino Gaspari & Sons, Inc.	5-1;61,62,63
275	1999; NJC; Bed board wood at Giorgi Mushroom Co.	5-1;64,65,66
276	1999; NJC; Bed board wood at John C. Leo & Son	5-1;67,68,69
329	MRC; Casing soil; KEP; 9/10	5-2; 57,58
330	PA Farm; DMB; 11/10	5-2; 59,60
331	PA Farm; DMB; 11/10	5-2; 61,62
332	PA Farm; DMB; 3/11	5-2; 63,64
333	PA Farm; DMB; 3/11	5-2; 65,66
334	PA Farm; 3 rd break; DMB; 3/11	5-2; 67,68
335	Compost/Casing; DMB; 7/11	5-2; 69,70
336	Compost; DMB; 7/11	5-2; 71,72
<i>Trichoderma viride</i>		
102	#5	4-1; 25,26,27,28
208	1990; FED	3-1; 85,86
<i>Trichothecium sp.</i>		
107	#5448; Clinic	4-3; 51,61,62,63
<i>Trichurus sp.</i>		
97		4-4; 8,9,10,11
<i>Yeast sp.</i>		
230	Pink; FED	3-2; 29,30
231	Cream; FED	3-2; 39,40
232	Cream-White; FED	3-2; 37,38
233	White; FED	3-2; 35,36
234	Cream; FED	3-2; 33,34
235	Light Beige; FED	3-2; 31,32
236	Cream White; Slow Grower; FED	3-2; 41,42
237	Cream White; Slow Grower; FED	3-2; 43,44
238	Cream White; Slow Grower; FED	3-2; 45,46
239	Cream White; Slow Grower; FED	3-2; 47,48
240	Cream; FED	3-2; 49,50
241	White; Powdery; FED	3-2; 59,60
242	FED	3-2; 57,58

Yeast sp.: continued

243	Cream; Slow Grower; FED	3-2; 55,56
244	Cream-White; FED	3-2; 53,54
245	Cream; FED	3-2; 51,52
246	Light Pink; FED	3-2; 61,62
247	Cream Mycelium; FED	3-2; 63,64
248	White; Slow Mycelium; FED	3-2; 65,66
249	White; FED	3-2; 67,68
250	White; Powdery; FED	3-2; 69,70
251	Cream-White; FED	3-2; 79,80
252	Cream; FED	3-2; 77,78

Verticillium sp.(Lecanicillium sp.)

341	Isolated from mushrooms exhibiting predominant swollen and blown stipes. Chester County, PA. New name for <i>Verticillium</i> is <i>Lecanicillium</i> . DMB 3/25/14	5-2; 81,82
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Verticillium fungicola (malthousei)

114	1951; BCMF(Bon Chang) Avondale, PA	4-1; 97,98,99,100
116	1969; BCMF(Bon Chang) Avondale, PA	4-1; 93,94,95,96
117	1970; Gaspari Bros.; VGI; Berks Co.	4-3; 96,97,98,99
120	1958; ML2; Pennsylvania	4-2; 1,2,3,4
121	Early 1950's; ML3	4-5; 28,29,30,40
123	1950; ML5; Michigan	4-2; 5,6,7,8
124	Early 1950's; ML6	4-2; 9,10,11,12
128	1970; C-7; CPW 707; Chester Co.	4-2; 13,14,15
130	K-2; Korea	4-5; 24,25,26,27
131	Early 1970's; S-2; Switzerland	4-2; 16,17,18,19
134	1971; 90; Chester Co.; Intermediate to Benomyl	4-2; 20,21,22,23
138	1978; Giorgio	4-2; 24,25,26,27
139	1979; Giorgio; J. Correll	4-2; 28,29,30,40
140	1979; PJW; British Columbia or California	4-2; 37,38,39
142	1979; Slack 1; Slack's Farm; Quebec	4-2; 33,34,35,36
143	1979; Ohio MR Farm; J. Correll	4-2; 31,32,41,42
144	1979; Grocery Store Prod.; Chester Co.; J. Correll	4-2; 43,44,45,46
145	1979; Diseased Mushrooms; Cathy Harvey; California	4-2; 47,48,49,50
148	1979?; Salem, Oregon	4-2; 57,58,59,60
150	1981; from <i>Pleurotus ostreatus</i> ; Ocean View, CA	4-3; 92,93,94,95
151	1982; DeAngelo Bros.; B7; Berks Co., PA	4-4; 96,97,98,99
152	1982; J. Bonifacino; C3; Chester Co., PA	4-4; 88,89,90,100
153	1982; Ostrom MR Farm; W1; Washington	4-4; 84,85,86,87
154	1982; C.P. Yeatman; C8; Chester Co., PA	4-4; 71,81-83
155	1982; Quirino DiMarco; B4; Berks Co., PA	4-4; 72,73,74,75
156	1982; Ocean View MR Growers; CA1; CA	4-4; 76,77,78,79
157	1982; Chase Mushroom; C10; Chester Co., PA	4-4; 64,65,66,67
158	1982; Antonini Bros.; D1; Delaware	4-4; 68,69,70,80
159	1982; Sea Lea Farm; B6; Berks Co., PA	3-1; 9,10,11,12
160	1982; Carroll Pratt Farm; C2; Chester Co., PA	3-1; 5,6,7,8
161	1982; Slacks MR Farm; WC2; Waterloo, Canada	3-1; 1,2,3,4

Verticillium fungicola (malthousei): continued

162	1982; WC4; Toronto, Canada	4-5; 91,92,93,94
163	1982; Castle & Cooke; Salem, Oregon	4-5; 95,96,97,98
164	1982; V; Vancouver, British Colombia	4-5; 89,90,99,100
165	1982; Sno-Top MR Farm; L2; Lawrence Co., PA	4-5; 86,87,88
166	1982; Sno-Top MR Farm; L1; Lawrence Co., PA	4-5; 83,84,85
167	1982; Giorgio MR Farm; B10-3; Berks Co., PA	4-5; 71,72,81,82
168	1982; Grocery Store Products; C11; Chester Co., PA	4-5; 73,74,75,76
169	1982; Penn Point Farm; C7; Chester Co., PA	4-5; 77,78,79,80
170	1982; C.P. Yeatman; C9; Chester Co., PA	4-5; 67,68,69,70
171	1982; Parrish Bros., C4; Chester Co., PA	4-5; 63,64,65,66
172	1982; Slacks MR Farm; WC3; Waterloo, Canada	4-5; 51,52,61,62
173	1982; Giorgio MR Farm; B10-6; Berks Co., PA	4-5; 53,54,55,56
174	1982; Bon Chang MR Farm; C1; Chester Co., PA	4-5; 57,58,59,60
175	1982; Irish Mt. Farm; B5; Berks Co., PA	4-5; 47,48,49,50
182	1986; LN-4; Chester Co., PA	3-1; 25,26,27,28
183	1986; LN-6; Chester Co., PA	3-1; 29,30,39,40
184	1986; LN-7; Chester Co., PA	3-1; 35,36,37,38
185	1986; LN-10; Chester Co., PA	3-1; 31,32,33,34
220	1988; FED	3-2; 9,10
221	1988; FED	3-2; 11,12
222	1988; FED	3-2; 13,14
223	1989; FED	3-2; 15,16
224	1989; FED	3-2; 17,18
225	1989; FED	3-2; 19,20
226	1990; FED	3-2; 21,22
227	1990; FED	3-2; 23,24
228	1989; FED	3-2; 25,26
229	1989; FED	3-2; 27,28
253	1993; Dr. Alice Bonnen; MTFD; 7/12/93	3-2; 74,75,76
254	1985; V9; Leavers; Canada; DR	5-1; 1,2,3
255	1986; V13; Superior; Canada; DR	5-1; 4,5,6
256	1986; V15; Castel; Canada; DR	5-1; 7,8,9
257	1986; V18; Wentworth Mushroom; Canada; DR	5-1; 10,11,12
258	1985; V2; Acton; Canada; DR	5-1; 13,14,15
259	1985; V5; A & F; Canada; DR	5-1; 16,17,18
260	1986; V12; Superior; Canada; DR	5-1; 19,20,21
261	1986; V14; Battista; Canada; DR	5-1; 22,23,24
262	1988; V16; Markham Mushroom; Canada; DR	5-1; 25,26,27

Verticillium cf. psalliotae

263	(<i>Treschow</i>); identified by CBS, Baarn, The Netherlands; isolated from spawn flask produced by a comm. spawn co.; 1998	5-1;28,29,30
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Zygorhynchus sp.

112	PJW, Canada	4-3; 68,69,70,80
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DMB = Dr. David M. Beyer DR = Danny Rinker FED = Fiona Davenport

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