

Database on mycosporines and mycosporine-like amino acids (MAAs) in fungi

Fungi	Habitat	collection site/date	M-2	MA	MG 1	MGA	MG 2	MG 3	MGG 1	MGG 2	MS	MS 1	NMG	Ref.
<i>Ascochyta</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	[24]
<i>Aureobasidium pullulans</i> B802	a	-(S)/-	-	-	-	-	-	-	+	+	-	-	-	[25]
<i>Aureobasidium pullulans</i>	-	EXF-150	-	-	-	-	-	-	+	+	-	-	-	[26]
<i>Aureobasidium</i> sp.	b	EXF-1940	-	-	-	-	-	-	+	-	-	-	-	[26]
<i>Botrytis cinera</i>	-	-	-	-	-	-	+	+	-	-	-	-	-	[25]
<i>Botrytis cinera</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	[27]
<i>Botryosphaeria</i> -like AN13	c	Negev desert (IL)/-	-	-	-	-	+	+	+	-	-	-	-	[25]
<i>Botryosphaeria</i> -like AN13	d	-	-	-	-	-	-	-	+	+	-	-	-	[28]
<i>Chaetothyriomycetales</i> A73	d	Athens(GC)/-	-	-	-	-	-	+	+	-	-	-	-	[25]
<i>Cladophialophora</i> -like M10B	c	-(USA)/-	-	-	-	-	-	-	+	-	-	-	-	[25]
<i>Cladosporium cladosporioides</i>	a	EXF-381	-	-	-	-	-	-	+	-	-	-	-	[26]
<i>Cladosporium herbarum</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	[24]
<i>Cladosporium sphaerospermum</i>	a	EXF-385	-	-	-	-	-	-	+	-	-	-	-	[26]
<i>Colletotrichum graminicola</i>	-	-	-	+	-	-	-	-	-	-	-	-	-	[29]
<i>Coniosporium</i> sp. A10	d	-(U)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Coniosporium</i> sp. A28	d	-(U)/-	-	-	-	-	-	-	+	+	-	-	-	[25]
<i>Coniosporium</i> sp. A28	d	-	-	-	-	-	-	-	+	+	-	-	-	[28]
<i>Coniosporium</i> sp. A34	d	-(U)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Coniosporium apollinis</i> DVA7	c	-(USA)/-	-	-	-	-	-	-	+	-	-	-	-	[25]
<i>Coniosporium perforans</i> A51	d	Athens (GC)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Coniosporium</i> -like A148	d	-	-	-	-	-	-	-	+	+	-	-	-	[28]
<i>Coniosporium</i> -like A148	d	-(I)/-	-	-	-	-	-	+	+	+	-	-	-	[25]
<i>Coniosporium uncinatum</i> A68	d	Athens (GC)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Cryptococcus laurentii</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[30]
<i>Cryptococcus liquefaciens</i>	b	MZKI K-428	-	-	-	-	-	-	+	+	-	-	-	[26]

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<i>Dioszegia hungarica</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Dioszegiasp.</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Discosphaerina</i> -like AN11	c	Negev desert (IL)/-	-	-	-	-	-	+	+	+	-	-	-	[25]
<i>Glomerella cingulata</i>	-	-	-	-	-	+	-	-	-	-	-	-	-	[32]
<i>Glomerella cingulata</i>	-	CC1	-	-	+	-	-	-	-	-	-	-	-	[33]
<i>Gnomonia leptostyla</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	[34]
<i>Helvella leucomelaneae</i>	-	CC2	-	-	-	+	-	-	-	-	-	-	-	[33]
<i>Hortaea wemeckii</i> B736	a	-(S)/-	-	-	-	-	+	-	+	+	-	-	-	[25]
<i>Hortaea wernecki</i>	a	MZKI B-736	-	-	-	-	-	-	+	+	-	-	-	[26]
<i>Knufia cryptophialidica</i>	e	Alberta (CND)/-	-	-	-	-	-	-	+	+	-	-	-	[25]
Microcolonial fungus (AN5)	d	Negev desert (IL)/-	-	-	-	-	-	-	+	-	-	-	-	[25]
Microcolonial fungus (N26c)	c	-(NB)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
Microcolonial fungus (A144)	d	-(I)/-	-	-	-	-	-	-	+	+	-	-	-	[25]
Microcolonial fungus (A145)	d	-(I)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
Microcolonial fungus (N26b)	c	-(NB)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
Microcolonial fungus (N26d)	c	-(NB)/-	-	-	-	-	+	-	+	+	-	-	-	[25]
Microcolonial fungus (N46)	c	-(NB)/-	-	-	-	-	-	-	+	-	-	-	-	[25]
Microcolonial fungus (N60)	c	-(NB)/-	-	-	-	-	-	+	+	+	-	-	-	[25]
Microcolonial fungus (N67)	c	-(NB)/-	-	-	-	-	-	-	+	-	-	-	-	[25]
Microcolonial fungus (N74)	c	-(NB)/-	-	-	-	-	+	-	+	-	-	-	-	[25]
Microcolonial fungus (S3)	a	-(S)/-	-	-	+	-	+	-	-	-	-	-	-	[25]
Microcolonial fungus (S17)	a	-(S)/-	-	-	-	-	-	-	+	+	-	-	-	[25]
Microcolonial fungus (A49)	d	Athens (GC)/-	-	-	-	-	+	-	+	+	-	-	-	[25]
<i>Phaeococcus chersonesus</i> A99	d	-(U)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Phaeotheca triangularis</i> K34	d	Delos (GC)/-	-	-	-	-	-	-	+	-	-	-	-	[25]

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Fungi	Habitat	collection site/date	M-2	MA	MG 1	MGA	MG 2	MG 3	MGG 1	MGG 2	MS	MS 1	NMG	Ref.
<i>Phaeothecca triangularis</i>	a	EXF-206	-	-	-	-	-	-	+	+	-	-	-	[26]
<i>Pyronema omphalodes</i>	-	-	-	-	-	-	-	-	-	-	-	-	+	[35]
<i>Pyronema omphalodes</i>	-	CC1	-	-	+	-	-	-	-	-	-	-	-	[33]
<i>Rhodotorula laryngis</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Rhodotorula minuta</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Rhodotorula minuta</i>	b	Nahuel Huapi National Park, Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[36]
<i>Rhodotorula minuta</i>	b	Mascardi (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[37]
<i>Rhodotorula pinicola</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Rhodotorula slooffiae</i>	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Rhodotorula slooffiae</i>	b	Nahuel Huapi National Park, Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[37]
<i>Rhodotorula</i> sp.	b	Patagonia (RA)/-	-	-	-	-	-	-	+	-	-	-	-	[31]
<i>Sarcinomyces petricola</i> A71	d	Athens (GC)/-	-	-	-	-	+	-	+	-	-	-	-	[25]
<i>Sarcinomyces petricola</i> A95	d	Athens (GC)/-	-	-	-	-	+	+	+	+	-	-	-	[25]
<i>Sarcinomyces petricola</i> A95	d	-	-	-	-	-	-	-	+	+	-	-	-	[28]
<i>Septoria nodorum</i>	-	-	+	-	-	-	-	-	-	-	-	-	-	[24]
<i>Stereum hirsutum</i>	-	-(NL)/-	-	-	-	-	-	-	-	-	+	+	-	[25]
<i>Tricothecium roseum</i>	-	-	-	-	+	-	-	-	-	-	-	-	-	[38]
<i>Tricothecium roseum</i>	-	CC 1	-	-	-	-	+	-	-	-	-	-	-	[39]
<i>Trimmatostroma solinum</i>	a	EXF-295	-	-	-	-	-	-	+	+	-	-	-	[26]
<i>Trimmatostroma solinum</i> B734	a	-(S)/-	-	-	-	-	+	-	+	+	-	-	-	[25]

Fungi:

a, saline; b, fresh water; c, desert; d, rock; e, tree; CC, Culture collection; 1, Centraal Bureau voor Schimmcultures, Baam, Holland; 2, University Claude Bernard, France; EXF, Extremophilic fungi (EXF) culture collection of the department of biology, Biotechnology faculty, University of Ljubljana, Slovenia; MZKI, Culture collection of the National Institute of Chemistry, Ljubljana, Slovenia

Abbreviations

AS, asterina-330; M, mycosporine-like amino acids; M-2, mycosporine-2; MA, mycosporine-alanine; MG, mycosporine-glycine; MG 1, mycosporine-glutamine; MG 2, mycosporine-glutaminol; MG 3, mycosporine-glutamicol; MGA, mycosporine-glutamic acid; M2G, mycosporine-2-glycine; MGG, mycosporine-glutamic acid-glycine; MGG 1, mycosporine-glutaminol-glucoside; MGG 2, mycosporine-glutamicol-glucoside; MGV, mycosporine-glycine-valine; MMS, mycosporine-methylamine-serine; MS, mycosporine-serine; MS 1, mycosporine-serinol; MMT, mycosporine-methylamine-threonine; MSE, mycosporine sulfate ester; MT, mycosporine-aurine; NMG, normycosporine-glutamine; PE, palythene; PL, palythinol; PNA, Palythenic acid; PR, porphyra-334; PS, palythine-serine; PSS, palythine-serine sulfate; PT, palythine; SH, shinorine; SME, shinorine methyl ester; US, usurijene.