

SUPPLEMENTARY ONLINE MATERIAL FOR

**Terrestrial-aquatic wood-inhabiting ascomycete *Potamomyces* from the
Miocene of Poland**

Grzegorz Worobiec, Elżbieta Worobiec, Przemysław Gedl, Jacek R. Kasiński,
Danuta Peryt, and Marek Widera

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Supplementary Online Material

Table 1. Modern and fossil record of ascospores considered as belonging to the *Potamomyces* (partly after Schlutz and Shumilovskikh 2013 and Nuñez Otaño et al. 2017)

Taxon name	Age	Location	Environment (source/substrate)	Climate	Reference
<i>Mediaverrunites fourierii</i> , <i>M. magnus</i> , <i>M. sp.</i>	early Miocene	Colombia	(sediment)	?	Elsik and Jarzen (2009)
<i>Mediaverrusporites sp.</i>	middle Miocene	western Niger Delta, Nigeria	freshwater to brackish (nearshore/coastal deltaic, swampy, mangrove sediment)	humid tropical	Durugbo and Olayiwola (2017)
<i>Mediaverrunites sp.</i>	middle/late Miocene	Arunachal Pradesh, India	freshwater to brackish (sediment)	humid tropical/subtropical	Paruya et al. (2017)
<i>Mediaverrunites mulleri</i> , <i>M. batii</i> , <i>M. pontidiensis</i>	late Miocene	Black Sea, Turkey	freshwater to marine (fluvio-deltaic to shallow marine sediment)	tropical to warm temperate	Sancay (2014)
<i>Mediaverrunites elsikii</i> , <i>M. mulleri</i>	Miocene	Mizoram, India	brackish (sediment)	tropical	Nandi and Sinha (2007)
<i>Mediaverrunites elsikii</i> , <i>M. mulleri</i>	Miocene	Solimões Formation, Amazon region, North	freshwater (lacustrine to fluvial)	humid tropical	Guimarães et al. (2013), da Silveira and

		Brazil	sediment)		Souza (2016)
<i>Mediaverrunites</i> sp.	Miocene	Barreiras Group, Amazon region, North Brazil	freshwater to marine (fluvio-deltaic to shallow marine sediment)	?	Arai et al. (1988)
<i>Mediaverrusporonites</i> sp.	Miocene	North of Chiapas, Mexico	(sediment)	probably tropical	Palacios-Chávez (1982)
<i>Potamomyces</i> sp. (<i>Potamomyces</i> sp. cf. <i>Mediaverrunites</i> sp. of Gemeraad 1979)	Miocene	Heath Formation, Tumbes Province, Peru	marine (sediment)	?	O'Keefe (2017)
<i>Mediaverrunites elsikii</i>	Miocene/Pliocene	Novo Remanso Formation, central Amazonia, Brazil	freshwater (meandering river sediment)	humid tropical	Guimarães et al. (2015)
<i>Mediaverrunites</i> sp.	Miocene/Pliocene	Siwalik strata, Churanthi River, India	brackish to shallow marine (sediment)	humid tropical to subtropical	More et al. (2016)
<i>Monoporisporites koenegii</i> (fig. 6S)	late Neogene	Mahuadanr valley, Jharkhand, India	(sediment)	humid tropical	Singh and Chauhan (2008), Singh and Prasad (2009)
<i>Mediaverrunites invaginatus</i>	late Neogene to early Pleistocene	offshore Louisiana Gulf of Mexico, USA	marine (sediment)	?	Elsik and Jarzen (2009)
Fungal spore (pl. 1: 2)	younger Cenozoic	cores from site 493 near Mexico	(sediment)	?	Fournier (1982)
<i>Potamomyces</i> sp.	late Quaternary	Rio Grande do Sul, southern Brazil	marine (coastal sediment)	subtropical	Roth and Lorscheitter (2016)
<i>Potamomyces</i> sp.	late Pleistocene	offshore northern Brazil	marine (offshore sediment)	tropical	Unpubl. data, Dupont et al. (2009) in: Schlütz and Shumilovskikh (2013)
<i>Mediaverrunites</i> sp.	late Pleistocene/Holocene	Laçador Palm Swamp, Buritizeiro, Minas Gerais, Brasil	swamp (sediment)	tropical	Cassino and Meyer (2013)
<i>Mediaverrunites</i> sp.	Holocene	New South Wales, Australia	(sediment)	subtropical	Elsik and Jarzen (2009)
<i>Mediaverrunites</i> sp.	Holocene	American Memorial Park, Saipan, Northern Marianas	brakish (mangrove sediment)	humid tropical	Jarzen and Dilcher (2006)
<i>Mediaverrunites</i> sp.	Holocene	Coastal Plain of Santa Catarina, southern Brazil	marine (nearshore/coastal sediment)	humid tropical	da Silva, and de Souza (2020)
<i>Mediaverrunites</i> sp.	Holocene	Mahwaqa Mountain, KwaZulu-Natal, South Africa	terrestrial (wetland sediment)	warm temperate, montane	Neumann et al. (2014)
<i>Potamomyces</i> sp.	Holocene	Yacata, Fiji Islands	freshwater (estuary/river sediment)	tropical	Macphail and Hope (2006)
<i>Potamomyces</i> sp.	Holocene	Eastern Drakensberg, South Africa	(sediment)	warm temperate	F. Neumann in: Schlütz and Shumilovskikh (2013)
Fungal ascospore (fig. 7BH)	Holocene	Wadhvana Lake, Gujarat, India	freshwater (fluvial sediment)	subtropical/tropical	Prasad et al. (2014)
Type JAM. 2053 (pl.6: 5)	Holocene	Jamaica	swamp (sediment)	tropical	Gemeraad (1979)
<i>Potamomyces palmarensis</i>	late Holocene	El Palmar National Park, Argentina	terrestrial (sediment)	humid sub-tropical	Nuñez Otaño et al. (2017)
<i>Potamomyces</i>	late Holocene	harbour of Elaia, ancient Pergamon, western Turkey	shallow marine (nearshore sediment)	subtropical	Shumilovskikh et al. (2016)
Ascospore (fig. 10i)	late Holocene	Cauca River, Colombia	freshwater (fluvio-palustrine sediment)	humid tropical	Serena et al. (2015)
<i>Mediaverrunites</i> sp.	Sub-recent	Sydney Cove (Warrane), New South Wales, Australia	terrestrial (archaeological layers)	subtropical	Macphail and Owen (2018)
<i>Mediaverrusporonites</i> sp.	Sub-recent	Parramatta, Australia	terrestrial (archaeological layers)	subtropical	Macphail (2006)
<i>Potamomyces</i>	Sub-recent	Yaque River valley, Dominican Republic	freshwater (fluvial sediment)	humid tropical	Hooghiemstra et al. (2018)
<i>Biconiosporella corniculata</i>	Recent	Anduki Beach, Brunei	brakish (driftwood from sandy sea shore)	tropical	Hyde (1988), Hyde (1995)
<i>Mediaverrunites</i> sp.	Recent	Burleson County, Texas, USA	terrestrial (humus-rich layer in hollow	warm temperate	Elsik and Jarzen (2009)

			tree)		
<i>Mediaverrunites</i> sp.	Recent	Luangwa valley, Zambia	freshwater (river sediment)	tropical	Jarzen and Elsik (1986)
<i>Potamomyces aquatica</i>	Recent	Tai Po Kau Forest Stream in Tai Po Kau Special Area, Hong Kong	freshwater (wood in stream)	subtropical	Ho et al. (2001)
<i>Potamomyces armatisporus</i>	Recent	Clohesy river, Australia	freshwater (wood in river)	humid tropical	Hyde (1995)
<i>Potamomyces armatisporus</i>	Recent	Rio Cuyabeno, Ecuador	freshwater (wood in stream)	tropical	Hyde (1995)
<i>Potamomyces armatisporus</i>	Recent	'Old Gombak', Malaysia	freshwater (wood)	tropical	Hyde (1995)
<i>Potamomyces armatisporus</i>	Recent	Lake Maicá, Santarém, Pará, Brazil	freshwater (wood in lake)	humid tropical	Canto et al. (2020)
<i>Potamomyces armatisporus</i> , <i>P. nepalensis</i>	Recent	Central Nepal	surface sample	subtropical	Schlütz and Shumilovskikh (2013)
Ascospore	Recent	Playa Medina, Venezuela	surface sample (coastal and mangrove)	humid tropical	Rull and Vegas-Vilarrubia (1999)
Fungal spore (pl. 1.:10)	Recent	Orinoco delta, Colombia	freshwater/brakish (deltaic, nearshore sediment)	humid tropical	Muller (1959)
<i>Striadiporites</i> sp. (fig. 3H)	Recent	Fazenda Urbano, Buritizeiro municipality, Minas Gerais, Brazil	swamp (sediment)	tropical	Lorente and Meyer (2010)

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