

Testate Amoebae As A Proxy For Reconstructing Holocene

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Giulia Magri Ribeiro: Use of phylogenomics to unveil metabolic adaptations in testate amoebae Euglypha compressa (testate amoeba)
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The Weird Creatures Living in This Aquarium /u0026 Baby Toads! Proxies - CompTIA Security+ SY0-501 - 2.1 Testate Amoeba Testate Amoebas: Bobby, Modest Shell-Dwellers The Case of the Mistaken Amoeba
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Testate Amoebae As A Proxy
Testate amoebae as a hydrological proxy for reconstructing water-table depth in the mires of south-eastern Australia 1. Introduction. The instrumental record of rainfall in south-eastern Australia is relatively short (~ 110 years) but... 2. Field and laboratory methods. We first sampled a wide ...

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protist group testate amoebae are a widely used proxy in studies of palaeoecohydrological conditions in peatlands, often combined with analysis of plant macrofossils, humification and/or stable isotopes (e.g. Charman et al., 1999; De Vleeschouwer et al., 2009; Loisel et al., 2009; Moschen et al., 2009; Daley et al., 2010). The community composition

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Testate amoebae are abundant and diverse in Sphagnum peat bogs and have been used extensively as indicators of past water table depths. Although these unicellular protists are widely dispersed with globally similar hydrological preferences, regional variations in communities demand region specific transfer functions.

Testate amoebae as a proxy for reconstructing Holocene ...
Testate amoebae have been widely used to reconstruct peatland hydrology in the Northern Hemisphere, but in the Southern Hemisphere research is still needed to assess their proficiency as a palaeohydrological proxy and to develop robust transfer functions.

Testate amoebae as a hydrological proxy for reconstructing ...
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Testate Amoebae As A Proxy For Reconstructing Holocene ...
Testate amoebae (formerly thecamoebians, Testacea or Thecamoeba) are a polyphyletic group of unicellular amoeboid protists, which differ from naked amoebae in the presence of a test that partially encloses the cell, with an aperture from which the pseudopodia emerge, that provides the amoeba with shelter from predators and environmental conditions.. The test of some species is produced ...

Testate amoebae - Wikipedia
Testate amoebae are single-celled protists which are around 50 µm long – that 's about 1/200 th of a centimetre. They live in wetland and soils, and are encased in a hard shell, called a test. The amoebae make the test from their own secretions or materials collected from the surrounding environment. Because the test remains long after the amoebae inside has died, scientists can use them to determine how the landscape has changed.

Testate amoebae: using microbes to understand the past ...
Sphagnum-dwelling testate amoebae are widely used in paleoclimate reconstructions as a proxy for climate-induced changes in bogs. However, the sensitivity of proxies to seasonal climate components is an important issue when interpreting proxy records.

Sphagnum-dwelling testate amoebae in subarctic bogs are ...
This review provides a synthesis of current knowledge on the morphological and functional traits of testate amoebae, a polyphyletic group of protists commonly used as proxies of past hydrological...

(PDF) Testate Amoeba Functional Traits and Their Use in ...
Abstract. In this study, we compared new testate amoeba records produced by the conventional water-based wet-sieving method to testate amoeba data from previous palynological analyses of two Holocene peat profiles from British Columbia, Canada. We used 132 paired samples from the same peat cores to compare the composition of testate amoeba assemblages between the two methods and evaluate the potential of palynological testate amoeba records as quantitative paleohydrological proxies in peatlands.

A comparison of Holocene testate amoeba assemblages and ...
Our results show that testate amoebae functional traits may serve as a valuable proxy that supports conventional reconstructions of the past environmental changes in peatlands, and further analysis of trait-ecosystem relationships could make them valuable indicators of the contemporary ecosystem state.

A novel testate amoebae trait-based approach to infer ...
Get Free Testate Amoebae As A Proxy For Reconstructing Holocene(Belgium) as a proxy for water level changes. On the marsh surface an elevation gradient is sampled to be analyzed for testate amoebae assemblages and sediment characteristics. Testate Amoebae as Proxy for Water Level Changes in a ... Page 12/29

Testate Amoebae As A Proxy For Reconstructing Holocene
ing soil testate amoebae assemblages of a brackish tidal marsh (Scheldt estuary, Belgium) as a proxy for water level changes. On the marsh surface an elevation gradient is sampled to be analyzed for testate amoebae assemblages and sediment characteristics.

Testate Amoebae as Proxy for Water Level Changes in a ...
We present a multi-proxy analysis (testate amoebae, plant macrofossils, stable carbon isotopes in Sphagnum, pollen, spores and macroscopic charcoal) from an ombrotrophic peat profile from the Rodna Mountains (northern Romania) to establish a quantitative record of hydro-climatic changes. We identify five main stages: wet surface mire conditions between AD 800 and 1150 and AD 1800 and 1950, and drying of the mire surface between AD 1300 and 1450, AD 1550 and 1750 and AD 1950 and 2012.

Last Millennium hydro-climate variability in Central ...
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A testate-amoeba record of water-table depth from the bog will be compared to a lake-level record from Giles Pond (cored by Connor and Bryan Shuman back in November). These two sites are the new paleoclimate proxies for our Howland Forest HIPS (Highly Integrated Proxy Site).