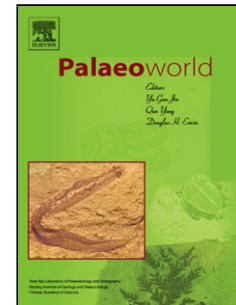


Accepted Manuscript

Title: Brachiopods from the Cisuralian–Guadalupian of Darvaz, Tajikistan and implications for Permian stratigraphic correlations

Author: Lucia Angiolini Mark Campagna Letizia Borlenghi
Tatiana Grunt Daniel Vachard Giovanni Vezzoli Irene Vuolo
James Worthington Alda Nicora Andrea Zanchi



PII: S1871-174X(16)30024-5
DOI: <http://dx.doi.org/doi:10.1016/j.palwor.2016.05.006>
Reference: PALWOR 371

To appear in: *Palaeoworld*

Received date: 1-12-2015
Revised date: 24-4-2016
Accepted date: 16-5-2016

Please cite this article as: Angiolini, L., Campagna, M., Borlenghi, L., Grunt, T., Vachard, D., Vezzoli, G., Vuolo, I., Worthington, J., Nicora, A., Zanchi, A., Brachiopods from the Cisuralian–Guadalupian of Darvaz, Tajikistan and implications for Permian stratigraphic correlations, *Palaeoworld* (2016), <http://dx.doi.org/10.1016/j.palwor.2016.05.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Brachiopods from the Cisuralian–Guadalupian of Darvaz, Tajikistan and implications for Permian stratigraphic correlations

Lucia Angiolini ^a *, Mark Campagna ^a, Letizia Borlenghi ^a, Tatiana Grunt ^b, Daniel Vachard ^c, Giovanni Vezzoli ^d, Irene Vuolo ^a, James Worthington ^e, Alda Nicora ^a, Andrea Zanchi ^d

^a Dipartimento di Scienze della Terra “A. Desio”, Via Mangiagalli 34, 20133 Milano, Italy

^b Laboratory-Studio “Living Earth”, Moscow, Russia

^c 1 rue des Tilleuls, 59152 Gruson, France

^d Dipartimento di Scienze dell’Ambiente e del Territorio e di Scienze della Terra, Piazza della Scienza 4, 20126 Milano, Italy

^e Department of Geosciences, The University of Arizona, 1040 E. 4th Street, Tucson, AZ 85721, USA

* Corresponding author. *E-mail address*: lucia.angiolini@unimi.it

Abstract

In this paper, we describe the upper Cisuralian Safetdara and Gundara formations of the Darvaz mountains, North Pamir, which were part of the Kunlun Arc, developed along the active Eurasian margin. The Safetdara Formation comprises massive limestones (mainly cyanobacterial, *Tubiphytes* and *Archaeolithoporella* boundstones) alternating with well-bedded bioclastic and oncoidal limestones) and an interval of recessive shales. The formation crops out above the Chelamchi Formation consisting of turbiditic siltstones and sandstones with bioclastic silty limestones yielding massive limestone olistoliths. The Gundara Formation consists of fine sandstones at the base, followed by well-bedded marly bioclastic, oncoidal and microbial limestones, bearing a rich silicified brachiopod fauna in life-position. Two new taxa have been identified in this association: the cemented coralliform *Gundaria insolita* n. gen. n. sp. and the pedicle attached *Hemileurus politus* n. sp. The inferred environmental setting is that of shoal deposits of warm, shallow, high energy, clear marine waters for the Safetdara Formation. The agglutinated microbial reefs to cluster reefs of the Gundara Formation were probably growing in a muddier, quieter and probably slightly deeper setting.

Download English Version:

<https://daneshyari.com/en/article/5788277>

Download Persian Version:

<https://daneshyari.com/article/5788277>

[Daneshyari.com](https://daneshyari.com)