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### **Microchemical Differentiation Of Conodont And**

Conodonts typically range in dimensions from 0.1 to 5 mm. Likewise, scolecodonts range in dimensions from 0.1 to 2 mm but have been found as large as 10 mm. Morphologically, scolecodonts can be distinguished from conodonts on the presence of a muscle cavity (termed myocoele) in exceptionally well-preserved fossils, although this feature is not always present (Jansonius and Craig, 1971). This work presents results of FTIR microspectroscopy on various conodont and scolecodont

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elements ...

## **MICROCHEMICAL DIFFERENTIATION OF CONODONT AND SCOLECODONT ...**

Conodonts and scolecodonts are common Paleozoic microfossils that are often used to determine the geothermometry of Paleozoic sequences. The two fossils, which can be difficult morphologically to distinguish one from the other, undergo a different thermal alteration pathway.

## **MICROCHEMICAL DIFFERENTIATION OF CONODONT AND SCOLECODONT ...**

CONODONTS AND SCOLECODONTS Conodont elements are the preserved mineralized tissue of an extinct group of marine organisms of late Cambrian to Late Triassic age (Fig. 1A). Generally conodonts are considered to belong to an extinct group of primitive chordates or possibly vertebrates, such as eel-

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like fishes (Donoghue et al., 2000).

## **MICROCHEMICAL DIFFERENTIATION OF CONODONT AND SCOLECODONT ...**

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Marshall, A. O.; Nowaczewski, V. ...

## **Microchemical Differentiation of Conodont and Scolecodont ...**

Conodonts and scolecodonts are common Paleozoic microfossils that are often used to determine the geothermometry of Paleozoic sequences.

## **Microchemical differentiation of conodont and scolecodont ...**

Conodonts constitute a third group of index fossils important for Silurian correlation. These phosphatic microfossils with.... Some conodonts exist in two forms, "right" and "left.". They are known to have occurred in bilaterally symmetrical pair assemblages in the animal, like teeth but more delicate and fragile.

**Conodont | fossil | Britannica**

Page 5/11

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These microfossils were variously thought to belong to annelid worms, arthropods, molluscs, chaetognaths (marine worms), fish (as teeth), and even plants. The discovery of an articulated 'conodont animal' was a significant breakthrough. Conodonts are a group of extinct microfossils known from the Late Cambrian (approximately 500 million years ago) to the Late Triassic (about 200 million years ago).

### **What are conodonts? - The Australian Museum**

Conodonts (Greek *kōnos*, "cone", + *odont*, "tooth") are extinct agnathan chordates resembling eels, classified in the class Conodonta. For many years, they were known only from tooth-like microfossils found in isolation and now called conodont elements. Knowledge about soft tissues remains limited.

### **Conodont - Wikipedia**

Experimental study demonstrates that thermal maturity of

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conodont elements in the Conodont Alteration Index (CAI) interval from 1 to 4 causes  $\delta^{13}\text{C}_{\text{org}}$  depletion varying from 0.2 up to 2.6 ‰.

### **WHAT DID A CONODONT HAVE FOR DINNER? | Andrey V. Zhuravlev ...**

Conodonts have been assigned to their own Phylum, Conodonta, divided into two Orders based on chemical and ultrastructure differences. Eleven superfamilies have been recognised by reconstructing associations of individual elements into apparatuses; and morphological and element compositional differences further divide these into forty seven families.

### **Conodonts - University College London**

Conodonts are an extinct group of jawless vertebrates whose tooth-like elements are the earliest instance of a mineralized skeleton in the vertebrate lineage 1,2, inspiring the 'inside-out ...

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## **The origin of conodonts and of vertebrate mineralized ...**

CONODONTS AND SCOLECODONTS Conodont elements are the preserved mineralized tissue of an extinct group of marine organisms of late Cambrian to Late Triassic age (Fig. 1A). Generally conodonts are considered to belong to an extinct group of primitive chordates or possibly vertebrates, such as eel-like fishes (Donoghue et al., 2000).

## **Microchemical differentiation of conodont and scolecodont microfossils. PALAIOS, 2013, v. 28, p. 433-437**

Microchemical differentiation of conodont and scolecodont microfossils. Palaios, 28, 433-437. This is a peer-reviewed publication. I am the co-senior author and co-PI on this project. I shared responsibility for initiating and developing the overall project. Advising was also a major component of



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## **Curriculum Vitae Preparation Promotion and Tenure Review ...**

C.P., in press, Microchemical differentiation of conodont and scolecodont microfossils. *Palaios*. I am the principle author. I analyzed or helped analyze all of the data, drafted the figures and wrote half the paper. X X X X 13 Olcott Marshall, A.\*, Jehlicka, J., Rouzaud, J-N, Marshall, C.P., 2013, Extensive mixing of

## **Alison Olcott Marshall Curriculum Vitae**

Microchemical differentiation of conodont and scolecodont microfossils. *Palaios*, 28 , 433-437. 2013 Olcott Marshall, A. , & Marshall, C. P. (2013). Comment on "Biogenicity of Earth's earliest fossils: A resolution of the controversy" by J.W. Schopf and A. B. Kudryavtsev. *Gondwana Research*, 22 ( 3-4), 761-771. doi:10.1016/j.gr.2012 ...

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