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## What does metamerism mean

Metamerism is the repetition of homologous body segments. This type of development can be seen in the Annelids, which are earthworms, leeches, tubeworm, and their relatives. It is also seen in a more advanced form in the Arthropods, or crustaceans, insects and their relatives. Metamerism arises from teloblastic development, in which cells divide asymmetrically to form rings of small cells around the embryo. These cells proliferate into the many segments of worms, and can be homonomous meaning very similar, or they can be differentiate into a wide variety of functions. These segments are called heteronomous. Metamerism has led to a great diversity of annelids, arthropods and other segmented animals in the world. The simple segmented condition of annelids allows them to exist in every environment from the deepest parts of the ocean to the soil of some of the highest mountains. Segmentation - A form of development in which many identical portion proliferate rapidly then grow. Homonomous - Simple, and very similar segments produced in worms and related animals. Heteronomous - Highly differentiated segments, as seen in many insects and crustaceans. 1. Scorpions, king crabs, earthworms, and fleas are all segmented animals. They have varied levels of differentiation between the segments. Which of the following terms describes all of the animals? A. Metamerism B. Homonomous Segmentation C. Heteronomous Segmentation A is correct. All of these animals show metamerism, or a segmented body plan that arises from teloblastic development. The scorpion, crabs, and fleas all belong to Arthropoda, and show heteronomous segmentation. The earthworm shows mostly homonomous segmentation, though certain areas are specialized for reproduction and other tasks. 同色昇道 1.325 millions of speakers metamerismo 570 millions of speakers metamerism 510 millions of speakers metamerism 380 millions of speakers 280 millions of speakers metamерия 278 millions of speakers metamerism 270 millions of speakers metamerism 260 millions of speakers métamerisme 220 millions of speakers Metamerisme 190 millions of speakers Metamerie 180 millions of speakers メタメリズム 130 millions of speakers 85 millions of speakers Metamerisme 85 millions of speakers trong metame 80 millions of speakers metamerism 75 millions of speakers 同色昇道 75 millions of speakers Metameri 70 millions of speakers metamerismo 65 millions of speakers metameri 50 millions of speakers metamерия 40 millions of speakers metamerism 30 millions of speakers μεταμερισμός 15 millions of speakers metamerism 14 millions of speakers metamerism 10 millions of speakers metamerisme 5 millions of speakers Also found in: Dictionary, Thesaurus, Encyclopedia, Wikipedia. (me-tam'ēr-izm). 1. A type of anatomic structure exhibiting serially homologous metameris; in primitive forms, such as the annelids, the metameris are almost alike in structure; in vertebrates, specialization in the cephalic region masks the underlying metamerism, which is still clearly evident in serially repeated vertebrae, ribs, intercostal muscles, and spinal nerves, and in young vertebrate embryos. 2. In chemistry, rarely used synonym for structural isomerism. Farlex Partner Medical Dictionary © Farlex 2012 (mī-tām'ə-rīz'əm)n. The condition of having the body divided into metameris, apparent in certain animals only in the early embryonic stages of development.The American Heritage® Medical Dictionary Copyright © 2007, 2004 by Houghton Mifflin Company. Published by Houghton Mifflin Company. All rights reserved. (me-tam'ēr-izm) A pattern of anatomic structure exhibiting serial repetition of homologous structures, as vertebrae, ribs, intercostal muscles, and spinal nerves. Medical Dictionary for the Health Professions and Nursing © Farlex 2012 Want to thank TFD for its existence? Tell a friend about us, add a link to this page, or visit the webmaster's page for free fun content. Link to this page:



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