

What Is A Vestigial Structure

== Evolution == **Overview** In basal arthropods, such as silverfish, the cerci originate from the eleventh abdominal segment. As segment eleven is reduced or absent in the majority of arthropods, in such cases, the cerci emerge from the tenth abdominal segment. It is not clear that other structures so named are homologous. In the Symphyla they are associated with spinnerets. *Euphorbia* sect. *Anisophyllum* differs from other *Euphorbia* species in a number of characteristics. Perhaps the most important is the presence of C4 photosynthesis in all but one subsection (subsection *Acutae*, which represents a basal clade that is made up of species with intermediate C2 photosynthetic pathways). Other characteristics include sympodial branching, dorsi-ventral stems, asymmetric leaves, non-glandular stipules, and ecarunculate seeds.

Tail While tails are primarily considered a feature of vertebrates, some invertebrates such as scorpions and springtails, as well as snails and slugs, have tail-like appendages that are also referred to as tails. In frogs and hominid primates, the coccyx is the homologous vestigial of the tail. While tails are primarily considered a feature of vertebrates, some invertebrates The tail is the elongated section at the rear end of a bilaterian animal's body; in general, the term refers to a distinct, flexible appendage extending backwards from the midline of the torso. In vertebrate animals that evolved to lose their tails

Castro de Leceia Hare and deer remain as a vestigial part of the population's The Castro de Leceia or Leceia Eneolithic Station (Estação eneolítica de Leceia) is an archeological site of the Castro culture located in the Portuguese civil parish of Barcarena in the municipality of Oeiras. The area was first occupied during the end of the Neolithic (4th millennium BCE) and throughout the Chalcolithic, being abandoned somewhere between the end of the 4th and the beginning of the 3rd millennium BCE. The site is classified as a public interest monument (Imóvel de Interesse Público) since 1963. The last interventions date to 2003. The Castro was first dug and reported in 1878 by Carlos Ribeiro, who presented his results to the Lisbon Academy of Sciences in what may be considered the first monograph dedicated to a pre-historical Portuguese settlement. The *Equus* genus is present in this phase, but in a reduced frequency and undomesticated. species

Vestigiality The emergence of vestigiality occurs by normal evolutionary processes, typically by loss of function of a feature that is no longer subject to positive selection pressures when it loses its value in a changing environment. Assessment of the vestigiality must generally rely on comparison with homologous features in related species. Vestigiality is the retention, during the process of evolution, of genetically determined structures or attributes that have lost some or all of the ancestral function in a given species. The feature may be selected against more urgently when its function becomes definitively harmful, but if the lack of the feature provides no advantage, and its presence provides no disadvantage, the feature may not be phased out by natural selection and persist across species

== Morphology and functions == 3894ccbe87

Chamaesyce Many of the species are known as sandmats. individual staminate flower contributes only a single stamen and retaining no other structure apart from a vestigial stalk below the base of the stamen's filament **Chamaesyce** is former genus of plants in the family **Euphorbiaceae**, now subsumed into the genus **Euphorbia** as **Euphorbia** sect. **maculata**, a temperate weed known as spotted spurge found worldwide, and **E. hirta**, a pantropical weed. The section contains around 350–365 species (around 210 New World and 140 Old World) that were formerly in the genus **Chamaesyce**. The section **Anisophyllum** is very closely related to plants like **Euphorbia pulcherrima**, the popular poinsettia. Plants in this section are known for their prostrate, branching habit and include probably best known for **E. Anisophyllum** in the subgenus **Chamaesyce** 3894ccbe87

== Function == 3894ccbe87

Cercus In basal arthropods, such as silverfish, the cerci originate from the eleventh abdominal segment. In many insects, they simply may be functionless vestigial structures. functionless vestigial structures. As segment eleven is reduced Cerci (sing. : cercus) are paired appendages usually on the rear-most segments of many arthropods, including insects and symphylans. Many forms of cerci serve as sensory organs, but some serve as pinching weapons or as organs of copulation 3894ccbe87

The surface of the cell of **Aquaspirillum serpens** has clear structures which take the form of linear bands at intervals of 17-18.5 nanometers (nm). There is also a variety of different patterns of ridges which surround protein subunits at the cell margin. Most of these consist of thin lines towards the edge of the cell wall, but they can be a hexagonal shape. The ridges are usually around 16 nm apart. 3894ccbe87 The **majungasaurines** were mid-sized, bipedal predators, but relatively slow moving. Their stout legs were built for striding, not running. They had tall, deep heads with powerful jaws, but small forearms without carpals in the wrists. Because of their slow gait and small arms, they likely preyed upon the larger, slower sauropods rather than the smaller, faster ornithopods. Their ancestors lived on a unified southern continent, Gondwana, in the Early Cretaceous, but as the land mass divided they became distinct from their South American cousins, and... 3894ccbe87

Majungasaurinae The two subfamilies of **Abelisauridae** are **Carnosaurinae**, best known from the South American **Carnotaurus**, and **Majungasaurinae**, consisting of Madagascar's **Majungasaurus** and its closest relatives. the theropod family **Abelisauridae**, a Gondwanan clade known for their thick and often horned skulls and vestigial arms. Their ancestors emerged in the Middle Jurassic, and the clade lasted until the Upper Cretaceous. It is a subgroup within the theropod family **Abelisauridae**, a Gondwanan clade known for their thick and often horned skulls and vestigial arms. The two subfamilies of **Abelisauridae** **Majungasaurinae** (after **Majungasaurus**, itself named after the city of Mahajanga in Madagascar) is a subfamily of large carnivorous theropods from the Upper Cretaceous, found in Madagascar, India, Spain, and France 3894ccbe87

A mammary ridge, or crest, usually stops growing at eight weeks and its length is regressed starting at the caudal end and extending cranially, so that what remains is a round, ectodermic placode where the axilla develops. When shortening of the mammary crest is complete, the structure remains prominent in the areas where the mammary glands eventually form. The

mammary... 3894ccbe87 The Dermaptera, or earwigs, are well known for the forcipate cerci that most of them bear, though species in the suborders Arixeniina and Hemimerina do not. It is not clear how many of the Dermaptera use their cerci for anything but defense, but some definitely feed on prey caught... 3894ccbe87 The mammary ridge is primordial for the mammary glands on the chest in humans, and is associated with mammary gland and breast development.

3894ccbe87 == Specific types of occurrence == 3894ccbe87

Aquaspirillum serpens The cell wall layers where the Aquaspirillum serpens is a species of gram-negative bacteria in the family Neisseriaceae. base of the innermost disk, there are numerous fibrillar structures, which could be vestigial or simply poorly preserved 3894ccbe87

The area experienced four main occupation phases: 3894ccbe87 == Development == 3894ccbe87

Mammary ridge When shortening of the mammary crest is complete, the structure remains The mammary ridge or mammary crest is a primordium specific for the development of mammary glands. so that what remains is a round, ectodermic placode where the axilla develops 3894ccbe87

== Description == 3894ccbe87 Many additional body parts form by the same process as conjoined twins: the zygote begins to split but fails to completely separate. This condition may also be a symptom of repeated occurrences of continuous inbreeding in a genetic line. 3894ccbe87

Discosorida Siphuncle structure indicated that the Discosorida evolved directly from the Plectronoceratida rather than through the more developed Ellesmerocerida, as did the other orders. The Discosoridae, one of the last families to evolve, found in Silurian and questionably in Devonian rocks, are characterized by a rapidly Discosorida are an order of cephalopods that lived from the beginning of the Middle Ordovician, through the Silurian, and into the Devonian. Discosorids are unique in the structure and formation of the siphuncle, the tube that runs through and connects the camerae (chambers) in cephalopods, which unlike those in other orders is zoned longitudinally along the segments rather than laterally. being vestigial. Finally and most diagnostic, discosorids developed a reinforcing, grommet-like structure in the septal opening of the siphuncle known as the bullette, formed by a thickening of the connecting ring as it draped around the folded back septal neck 3894ccbe87

Examples of vestigial structures (also called degenerate, atrophied, or rudimentary organs) are the loss of functional wings in island-dwelling birds; the human vomeronasal organ; and the hindlimbs of the snake and whale. 3894ccbe87 Specific types of additional body parts include: 3894ccbe87 Most cerci are segmented and jointed, or filiform (threadlike), but some take very different forms. Some Diplura, in particular Japyx species, have large, stout forcipate (pincer-like) cerci that they use in capturing their prey. 3894ccbe87 The origin of the Discosorida is unknown, thought at one time to be directly from the Plectronocerida. Evolution within the order begins with the lower Middle Ordovician Reudemannoceratidae and from there diverges into three main lineages. Questionable discosorids have been reported as early as the Middle Tremadocian - near the start of the Ordovician, however the first... 3894ccbe87 In human embryogenesis, the mammary ridge usually appears as a narrow, microscopic ectodermal thickening during the first seven weeks of pregnancy and grows caudally as a narrow, linear ridge. In many mammals, these

glands first appear as elevated ridges along the milk lines, which then separate into individual buds located in regions lateral to the ventral midline. The location of these buds varies according to species: they are located in the thoracic region in primates, in the inguinal area in ungulates, and along the entire length of the trunk in rodents and pigs. 3894ccbe87 == History == 3894ccbe87 Plants in the section (as with all other species in the genus Euphorbia) bear tiny flowering... 3894ccbe87

Supernumerary body part vermiform appendix is sometimes classed as a vestigial remnant. Body parts may be easily visible or hidden away, such as internal organs. Prosthesis is an artificial extension that replaces a body part, and cybernetics is the study of Supernumerary body parts are most commonly a congenital disorder involving the growth of an additional part of the body and a deviation from the body plan 3894ccbe87

Tail-shaped objects are sometimes referred to as "caudate" (e.g. caudate lobe, caudate nucleus), and the body part associated with or proximal to the tail are given the adjective "caudal" (which is considered a more precise anatomical terminology). 3894ccbe87

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