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Natural selection Of Orchids

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Phylogenetic tree





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Orchid Ancestor

Archaefructus Liaoningensis is the ancestor that is 125 million years ago. There is evidence on pollen on rocks that believe 400 million years ago was when plants first evolved.

There is evidence that the Gigantopterids are an ancestor of the orchids. Even though that they didn't flower the structure of the leaves and of the stem are very similar.



http://danvin200.christs.cam.ac.uk/pages/ index.php?page_id=g9



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Todd Krasnow: Orchid Partners (Video) DVD





source of picture: http://www-tc.pbs.org/wnet/ nature/files/2008/10/na_img_obsession_flower.jpg

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"In my examination of Orchids, hardly any fact has so much struck me as the endless diversity of structure...for gaining the very same end, namely, the fertilization of one flower by the pollen of another." Charles Darwin

Phylogenetic tree



explanation of the tree

Eukarya:Domain Plantae:Kingdom Magnoliophyta:Phylum Liliopsida:class Orchidale:Order Orchidaceae:Family Vanilla:Genus Planifolia:Species

http://bioweb.uwlax.edu/bio203/s2009/ruud_kirs/

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The phylum scientists believe have a quarter of one million species of angiosperms. The flowers ovules contain with the megasporophylls. Self pollination is common in this plants and double fertilization is in the phylum. The liliopsida is home to about 60,000 (sixty-thousand) angiosperms. The family is mainly tropical and terrestrian plants.

http://bioweb.uwlax.edu/bio203/s2009/ruud_kirs

Orchids have the Males and the females reproductive system

It has a highly modified petal called a lip, or a labellum. They almost come in every color size and shape that exists. Thecasesolutions.com

Thecasesolutions.com All orchids needs: Light, Water, nutrients, and air. Orchids prefer a warm temperature of 55-60 degrees F.

Orchids like every plant depends on bees to live. Bees pollinates the orchid so they can reproduce, and the bees get the fragrance The bees evolved before the orchids, research shows that at least 12 million years before

There are more than 25,000 species of orchids but few fossilized speciemens have been found. A bee was discovered in 2007 and have been researched that it was from 100 million years ago, that means that orchids also lived with dinosaurs

Natural selection Of Orchids Thecasesolutions.com

Orchids have a special adaptation in the roots, stems, leaves and seeds. They absorb nutrients from the surface of the host and rainwater. Orchids also have enlarged stems, that are used for water and carbohydrate storage. This allows orchids to flourish with rain seasons and flouds. Orchids also have a modified photosynthetic pathway for the dry places. And also orchids are adapted to windy places.

http://bioweb.uwlax.edu/bio203/s2009/ruud_kirs/ Habitat%20-%20Geography.htm