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Name of Journal: *World Journal of Otorhinolaryngology*

ESPS Manuscript NO: 22671

Manuscript Type: MINIREVIEWS

Embryology of the nose: The evo-devo concept

Jankowski R *et al.* Embryology of the nose

Roger Jankowski, Samuel Márquez

### Abstract

Aim was to gather relevant knowledge in evolution and development to find a rational explanation for the intricate and elaborate anatomy of the nose. According to classic embryology, the philtrum of the upper lip, nasal dorsum, septum and primary palate develop from the intermaxillary process, and the lateral walls of the nasal pyramid from the lateral nasal processes. The palatal shelves, which are outgrowths of the maxillary processes, form the secondary palate. The median nasal septum develops inferiorly from the roof of the



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作者: S Kuratani - 2009 - 被引用次数: 18 - 相关文章

A need for the **concept** of modularity has emerged as. ... To grasp the modular structures in **evo-devo** biology from a top-down perspective, the ..... the patterning of the **nasal** and adenohipophysial placodes: in the cyclostomes, olfactory and ...

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### Evo-devo - Understanding Evolution

[evolution.berkeley.edu/evolibrary/article/evodevo\\_01](http://evolution.berkeley.edu/evolibrary/article/evodevo_01) [翻译此页](#)

**Evo-devo** by the Understanding Evolution team. Development is the process through which an **embryo** becomes an adult organism and eventually dies.

缺少字词: nose

### Evolution 101: What is Evo-Devo?



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### Modularity, comparative embryology and evo-devo ...

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### NOVA - Official Website | What Is Evo Devo? - PBS

[www.pbs.org/wgbh/nova/evolution/what-evo-devo.html](http://www.pbs.org/wgbh/nova/evolution/what-evo-devo.html) ▾ 翻译此页

2009年10月26日 - Cliff Tabin defines the new field of "**evo devo**" and some of the ... how genes make an **embryo** form the way it does, why a limb forms in the first ...

缺少字词: nose

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A need for the **concept** of modularity has emerged as: ... Modularity, comparative **embryology** and **evo-devo**: Developmental dissection of evolving body plans ..... evolutionarily with the double **nostril** state (diplorhiny) of the vertebrate head and ...

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It addresses the origin and evolution of **embryonic development**; how ... **Evo-devo** seeks the genetic and evolutionary basis for the division of the .... Researchers in this field study **concepts** and mechanisms such as developmental plasticity, .... eyes absent gene require Pax6 for expression in lens and **nasal** placode".

### The Evo-Devo Origin of the Nose, Anterior Skull Base and ...

<https://books.google.com.hk/books?isbn=2817804228> - 翻译此页

Roger Jankowski - 2013 - Medical

According to the **evo-devo concept** of the **nose** formation, the secondary palate develops after the olfactory **nose** has opened into ... In classical **embryology** (Fig.

### The Evo-Devo Origin of the Nose, Anterior Skull Base and ...

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The **Evo-Devo** Origin of the **Nose**, Anterior Skull Base and Midface ... The Seemingly Simple Formation of the Secondary Palate and **Nose** in the Human **Embryo**.

### BIOL3530: Developmental Biology, Evo-Devo

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**Embryo's** development reflects the evolutionary history of the organism. ... Dogs have