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New Insight into Dental Epithelial Stem Cells: Identification, Regulati



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### Dental Epithelial Stem Cells | Request PDF

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**Dental epithelial stem cells** (DESCs) drive continuous growth in the adult mouse incisors. To date, a robust system for the primary culture of these **cells** has not been reported, and little is known ...

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### Insight into the maintenance of odontogenic potential in ...

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Introduction. In the field of **tooth** regeneration, the main concept is to mimic the natural **tooth** development process using **stem cells**. **Cells** or tissues with odontogenic potential are required to regenerate a whole **tooth** (Kollar & Baird, 1970b; Mina & Kollar, 1987). Since the odontogenic potential to instruct **tooth** organogenesis shifts to the **dental** mesenchyme at bud stage of odontogenesis ...

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**Author:** Yunfei Zheng, Lingfei Jia, Pengfei Liu, Da...

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### Regulation of Intestinal Stem Cells - ResearchGate

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In **summary**, we have characterized a **new** and **simple** animal model of **epithelial stem cell** **regeneration** that may be useful for understanding the complex ...

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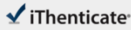
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New insight into dental epithelial stem cells: Identification, regulation, and function in tooth homeostasis and repair

Gan L *et al.* Identification, regulation and function of DESCs

Lu Gan, Ying Liu, Di-Xin Cui, Yue Pan, Mian Wan

Abstract

Tooth enamel, a highly mineralized tissue covering the outermost area of teeth, is always damaged by dental caries or trauma. Tooth enamel rarely repairs or renews itself, due to the loss of ameloblasts and dental epithelial stem cells (DESCs) once the tooth erupts. Unlike human teeth, mouse incisors grow continuously by the presence of DESCs that generate enamel-producing ameloblasts and other supporting dental epithelial lineages. The ready accessibility of mouse DESCs and wide availability of related transgenic mouse lines make mouse incisors an excellent model to examine the

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### Oral epithelial stem cells – implications in normal ...

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Jul 15, 2014 · **Cell** division in **oral mucosa epithelial cells** takes place mainly in the basal layer which contains the **stem cells** compartment from which the oral mucosa is being regenerated . After dividing, the committed **cells** undergo differentiation that leads to the expression of structural keratin proteins as **cells** move superficially, and eventually fall off the surface.

**Cited by:** 23

**Author:** Silvana Papagerakis, Giuseppe Pannon...

**Publish Year:** 2014

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Request PDF | **Epithelial stem cells in teeth** | Many tissues and organs maintain a process known as homeostasis, in which **cells** are replenished as they die as a **result** of apoptosis or injury ...

### Regulation of Intestinal Stem Cells - ResearchGate

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**Dental stem cells** (DSCs) are a promising source of **mesenchymal stem cells** for use in **cell therapy** and regenerative medicine.

### IRF2 maintains the stemness of colonic stem cells by ...

<https://www.nature.com/articles/s41598-020-71633-3>

To test whether **epithelial** regeneration in the colon of **Irf2** ΔIEC mice was impaired by a decrease in