



国际口腔医学杂志 » 2010, Vol. 37 » Issue (02) :186-186~188 DOI: 10.3969/j.issn.1673-5749.2010.

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### 成纤维细胞生长因子-23 对牙发育的影响和作用

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### The roles of fibroblast growth factor -23 in the development of teeth

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摘要

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**摘要** 成纤维细胞生长因子 (FGF) -23是X 连锁显性低磷血症、常染色体显性遗传性低磷血症以及肿瘤诱发性骨软化症等低磷血症的共同致病因子, 不仅产生于骨组织, 也产生于牙等矿化组织, 即FGF-23 可能参与了牙胚发育的调节。下面就FGF-23 的结构和生化特性、血磷调节机制和在牙胚发育中的表达以及X 染色体同源内肽酶磷酸盐调节基因突变对牙胚中FGF-23 表达的影响、FGF-23 过表达对牙胚发育的影响等研究作一综述。

**关键词:** 成纤维细胞生长因子-23 牙 矿化不全 X染色体同源内肽酶磷酸盐调节基

**Abstract:** Fibroblast growth factor (FGF) -23 was identified in recent years as a new phosphaturic factor that is associated with the pathogenesis of hypophosphatemic rickets and osteomalacia, such as X-linked hypophosphatemia, autosomal dominant hypophosphatemic rickets and tumor-induced osteomalacia. Recently, it is found that FGF-23 is not only expressed in osteoblast, but also in odontoblast, which suggests that FGF-23 may regulate the development of teeth germ. Here, we will summarize the expression and effects of FGF-23 in teeth development.

**Keywords:**

Received 2009-05-03;

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引用本文:

郭可武<sup>1</sup>, 郭丛丛<sup>1</sup>综述 汪华<sup>2</sup>审校.成纤维细胞生长因子-23 对牙发育的影响和作用[J] 国际口腔医学杂志, 2010,V37(02): 186-186~188

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