articles ——

SciFLO Brazil

previous next author subject form home alpha

r articles search

Brazilian Oral Research

Print version ISSN 1806-8324

Abstract

<u>NUNES, F替io Daumas</u> et al. Localization of *Bmp-4*, *Shh* and *Wnt-5a* transcripts during early mice tooth development by *in situ* hybridization. *Braz. oral res.* [online]. 2007, vol.21, n.2, pp. 127-133. ISSN 1806-8324. doi: 10.1590/S1806-83242007000200006.

A comparative nonisotopic *in situ* hybridization (ISH) analysis was carried out for the detection of *Bmp-4*, *Shh* and *Wnt-5a* transcripts during mice odontogenesis from initiation to cap stage. *Bmp-4* was expressed early in the epithelium and then in the underlying mesenchyme. *Shh* expression was seen in the odontogenic epithelial lining thickening, being stronger in the enamel knot area, during the cap stage. *Wnt-5a* transcripts were expressed only in the mesenchyme during the initiation, bud and cap stages, with strong expression in the dental mesenchyme during the bud stage. The present results showed that *Bmp-4*, *Shh* and *Wnt-5a* are expressed since the very early stages of tooth development, and they suggest that the *Wnt-5a* gene is expressed in different cell populations than *Bmp-4* and *Shh*.



Keywords : Odontogenesis; Tooth germ; Wnt proteins; Bone morphogenetic proteins.

?abstract in portuguese ?text in english ?pdf in english

(cc) BY-NC All the content of the journal, except where otherwise noted, is licensed under a Creative Commons License

Av. Lineu Prestes, 2227 Caixa Postal 8216 05508-900 S鉶 Paulo SP - Brazil Tel./Fax: +55 11 3091-7810 Mail bor@sbpgo.org.br