



RÉSEAU FRANÇAIS DU FLUOR



Laboratoire de Physiopathologie Orale Moléculaire

Centre de Recherche des Cordeliers

UMRS 872, Equipe 5

15 rue de l'école de médecine

75006 Paris



Keywords : tooth, fluorosis, enamel, mineralization

Principal Investigators : Sylvie Babajko, Ariane Berdal

Title: Systemic fluoride effects on tooth development and mineralization

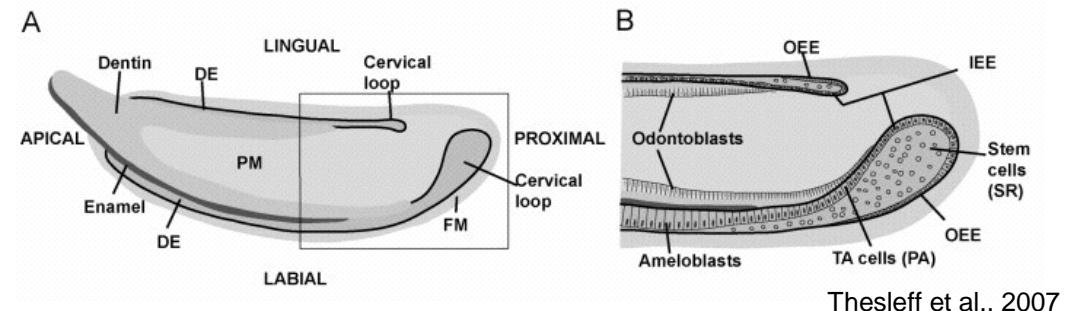
Method: *in vitro* and *in vivo* long term exposure to fluoride contained in drinking water

Background: Wurtz T, Houari S, Mauro N, MacDougall M, Peters H, Berdal A. Fluoride at non-toxic dose affects odontoblast gene expression in vitro. Toxicology. 2008 Jul 10;249(1):26-34.

Aim1: fluoride and dental fluorosis



Aim2: fluoride target genes and mechanism of action



- Mineral characterization of fluorotic human and rat teeth (Aims 1 and 2)
- Molecular biology and histology of continually growing incisor rats exposed to fluoride (Aim 2)