

"A NEW ERA IN DENTAL REGENERATION : THE ANTI USAG-1 BREAKTHROUGH"

2007
USAG-1
Abrogation and
supernumerary
tooth
formation.

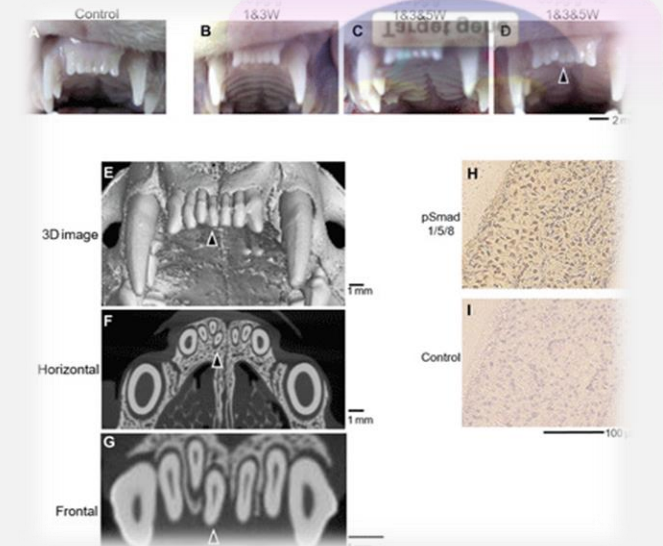
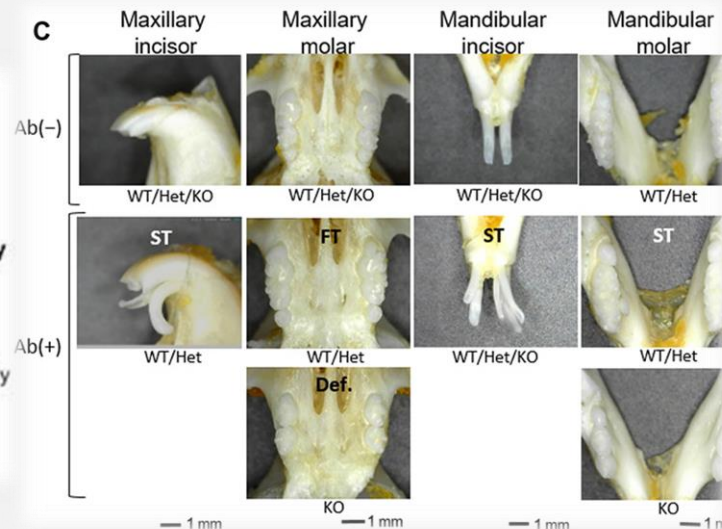
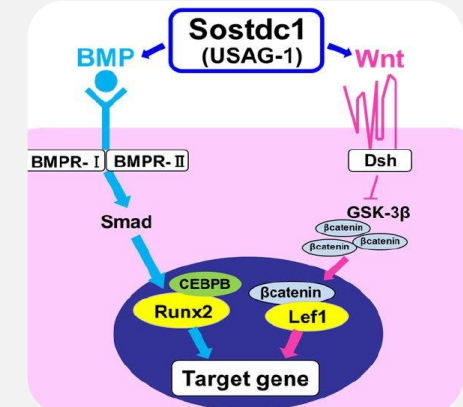
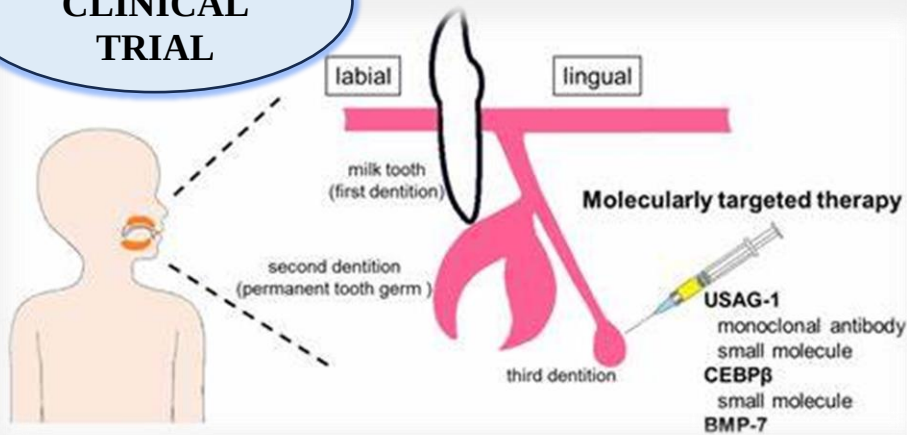
2008
Deficiency of
USAG-1 In
Mice
Supernumerary
teeth formation.

2014-2016
USAG-1 &
BMP
deficiency &
impact on
murine tooth
morphogenesis

2018-2019
3rd dentition
is the main
cause.

2021
Therapeutic
potential of
Anti USAG-1 &
USAG-1 siRNA
in tooth
regeneration.

**PHASE 1
CLINICAL
TRIAL**



Conclusion: Anti-USAG-1 antibody treatment in mice is effective for tooth regeneration and can be a breakthrough in treating tooth anomalies in humans.

References : Murashima-Suginami A, Kiso H, Tokita Y, Mihara E, Nambu Y, Uozumi R, Tabata Y, Bessho K, Takagi J, Sugai M, Takahashi K. Anti-USAG-1 therapy for tooth