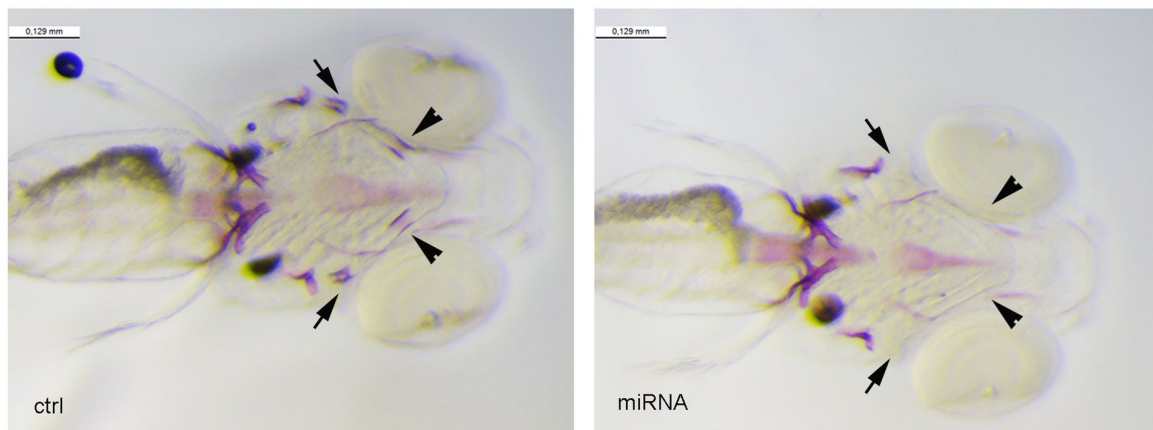




D4.9 partner [UNIPV]

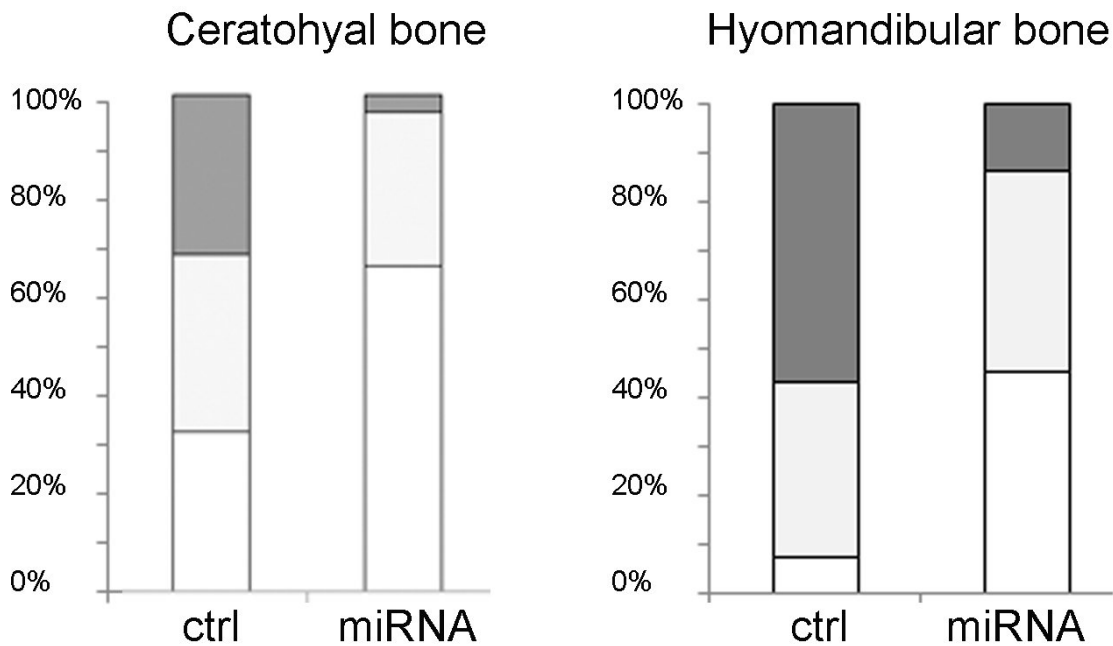
18/09/2015 Prof Antonio Rossi

Zebrafish model of osteoporosis: alizarin Red staining of 6 dpf zebrafish embryos injected with miRNA acting on bone formation or with miRNA control shows a delay in the mineralization of endochondral bone.



Alizarin Red staining of 6 dpf zebrafish embryos injected with a miRNA acting on bone formation or with a miRNA control. A reduction in the ossification of endochondral bones can be observed. Arrow: hyomandibular bone; arrowhead: ceratohyal bone.

Fig 1.jpg



The ossification of endochondral bones decreases after the injection with a miRNA affecting bone formation. Zebrafish embryos were injected with control miRNA or with miRNA affecting bone at two cells stage and stained with alizarin red at day 6 post fertilization. For every fish the ossification level of ceratohyal bone and of hyomandibular bone was classified as “beginning ossification” (white), “intermediate ossification” (light grey) and “complete ossification” (dark grey). the percentage of fishes presenting a certain level of ossification is reported in the graph.

Fig 2.tif