

# Attempt to regenerate the dog's tooth using the method of a new direction in biology—Linguistic—Wave Genetics

## Abstract

A preliminary study shows the precedent of quantum regeneration of a dog's tooth. Regeneration was carried out by a special laser technology based on an expanded understanding of the principles of genetic coding. One principle predicts the existence of quantum equivalents of working genes. This we proved experimentally. The multipotent mesenchymal stromal cells (MMSCs) derived from human adipose tissue were pre-treated with human tooth rudiment quantum genetic information (MBER). The control symmetrical area from the removed tooth was left unchanged. After 9 months, a complete regeneration of the dog's tooth was observed. In the control area, there was no regeneration. The proposed briefly outlined work is devoted to an attempt to regenerate the dog's tooth using the method of a new direction in biology - Linguistic-wave genetics. The work should be considered a precedent, and it will be continued. A close experimental work on the regeneration of the diabetic foot was carried out by us recently.

**Keywords:** quantum regeneration, quantum equivalents of genes, stem cells, reprogramming

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## Preparation of stem cells

Multipotent mesenchymal stromal cells derived from human adipose tissue were used for transplantation. Cellular suspension from adipose tissue was diluted with Dulbecco's Phosphate Buffered Saline (DPBS), ("Gibco") 1:2, layered on a density gradient of Histopaque 1.077 ("Sigma") and centrifuged for 30 minutes at 600g. Then, interfacial mononuclear rings were collected into centrifugal test tubes ("Corning"), washed by centrifugation in excess DPBS. The resulting cell sediment was resuspended in a culture medium and placed in culture test tubes ("Corning", 25cm<sup>2</sup>) and transferred to a 37°C constant incubator with 5% carbon dioxide gas.

The culture medium consisted of DMEM/F<sub>12</sub> supplemented with 25mM HEPES, 2mM L-glutamine, 2mM sodium pyruvate, 100U/ml penicillin, 100µg/ml streptomycin and 10% fetal bovine serum (all of the above are the reagents of "Gibco"). The medium with non-adherent cells was removed. The cells, attached to the plastic on the bottom of the culture flask, were gently washed with DPBS, the medium was completely replaced. Subsequent medium replacements were carried out every 2-3 days; the cultures were examined using phase-contrast microscopy.

As the culture was cultured and the subconfluent state reached, the cells were trypsinized with a solution of Trypsin-EDTA ("Gibco") and passaged 1: 2. For the experiment we used a culture of passage 3, 1 million cells were placed in a tooth socket.

## Dog's tooth regeneration

A demonstrative precedent for (*in situ*) regeneration of organs and tissues with the help of quantum genes on spintronic principles. This, as well as other precedents of quantum and linguistic-wave genetics (based on relatively simply laser technologies) open an infinite realm of quantum recombinational genetics for regenerative medicine development (Figure 1 & Figure 2).



**Figure 1** Dog's left upper jaw where the tooth was removed. No multipotent mesenchymal stem cells (MMSCs) introduced.



**Figure 2** Dog's right upper jaw where multipotent mesenchymal stem cells (MMSCs) was introduced with subsequent tooth regeneration.

Modulated Broadband Electromagnetic Radiation (MBER) was synthesized from the surgically removed rudiment of a human molar. Multipotent mesenchymal stromal cells (MMSCs) were extracted from human adipose tissue. These MMSCs were irradiated with the synthesized MBER and were grown to the required concentration. Prior to the MMSCs introduction, the dog's teeth were removed from the right and left sides of the upper jaw. The programmed MMSCs were introduced into the right upper jaw in the place of the removed tooth. This resulted in regeneration of a new tooth over 9 months (lower photo).

## Results

A frequency-stabilized Helium-Neon laser with two orthogonal optical modes was used to transfer the quantum genetic information, which read the genetic information from the rudiment of the human tooth. Such information was spontaneously transformed into modulated broadband electromagnetic radiation (MBER) carrying the same information, initially recorded on polarization modulation (spin states) of probing photons in the mode of returning the laser beam back to its resonator.

The dog's teeth were removed behind the fangs on the left and right side of the jaw. A week later, multipotent mesenchymal stromal cells put in the place of the removed right tooth and were pre-treated with MBER of the human tooth rudiment. The control symmetrical area from the removed left tooth did not receive any treatment. After 9 months, a complete regeneration of the dog's tooth on the right side was observed. In the control area of the left tooth, there was no regeneration. Extraction of the dog's jaw for photographing the regenerated tooth was carried out after the natural death of the dog from old age. Our study has a theoretical justification given by us in the articles,<sup>1-3</sup> and the experimental substantiation given by us in articles.<sup>4,5</sup>

## Conclusion

Thus, the precedent of regeneration by the method of wave genetics of a dog's tooth was recorded using human genetic information. The second factor is the conversion of human genetic information into canine genetic information. This study for greater evidence continues in experimental and theoretical terms.

## Acknowledgements

None.

## Conflicts of interest

Author declares that there is none of the conflicts.

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