

The Effect of Homeopathically Prepared Thyroxin (10^{-30} parts by weight) on Highland Frogs is Influenced by Electromagnetic Fields

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SUMMARY

Background: Previous multi-researcher experiments showed that amphibian larvae were responsive to homeopathically prepared thyroxin.

Methods: We studied the effect of a highly diluted and agitated, i.e. homeopathically prepared thyroxin dilution on metamorphosis in highland *Rana temporaria* under the influence of various electromagnetic fields. The following technical devices were tested for their influence on the dilution: a microwave heater, a mobile phone, an airport X-ray, and a red light scan as is used for barcode reading. Animals were pretreated by immersing them in an aqueous molecular thyroxin dilution (10^{-8} parts by weight, not submitted to an agitation process). This has been found to speed up metamorphosis by around 5 %. In accordance with the homeopathic idea of detoxication or cure, in every experiment, animals were then treated either with thyroxin that had been highly diluted and agitated in successive steps, i.e. homeopathically prepared (10^{-30} parts by weight, diluted to 10^{-35} in the basin water), or analogously prepared blank solution, or analogously prepared thyroxin that had been exposed to the electromagnetic field of one of the technical devices tested. Solutions were administered at 48 hour intervals according to a standardized protocol.

Results: Animals treated with the standard test solution thyroxin 10^{-30} metamorphosed more slowly than the control animals, i.e. the effect of the homeopathically prepared thyroxin was opposed to the usual effect of molecular thyroxin. The cumulative number of test animals that had reached the four-legged stage at defined points in time was smaller in the group treated with homeopathically prepared thyroxin at most of the points in time. This was found independently by all 3 research teams involved. In contrast, this effect did not occur when the thyroxin dilution had been exposed to the field of the – evidently defective – microwave heater, or the mobile phone. With regard to the stability of the dilution as an information carrier, there was no difference whether aqueous or alcoholic dilutions were used, and there was, if any, only a small protective effect from zinc foil which some of the samples were wrapped in. On the other hand, airport X-raying and red light scanning at the counter did not diminish the effect of the homeopathic dilution.

KEYWORDS

amphibia, metamorphosis, thyroxin, homeopathic dilution, inverse effect, curative effect, electromagnetic fields

INTRODUCTION

The amphibian model appears to be a useful tool for explaining certain phenomena encountered in homeopathy and homeopathy research¹⁻⁴.

One of the bases of homeopathy, namely *the principle of similars*, can be demonstrated by first hyperstimulating *Rana temporaria* by immersion in an aqueous molecular thyroxin dilution (10^{-8} parts by weight, not submitted to an agitation process) and then inducing an inverse “curative” effect by a homeopathically prepared dilution of the same hormone thyroxin⁵. There appears to be a relationship between the effect of homeopathically prepared thyroxin and a naturally or artificially elevated