

# Quantum electro-dynamics helps homoeopathy achieve its scientific basis

## Abstract

Since long liberal minded scientists are trying to unravel the mystery of high potency (greater than 12c) homoeopathic medicines – how do they differ from one another and how do they cure diseases. Many investigations have been done by reputed scientists using sophisticated instruments. Now these attempts seem to converge to the structural model based on a few striking properties of water observed experimentally. The model may be stated as: A substance is to be recognized as a medicine if it has the capability of curing disease(s) while its medicinal property is to be attributed to molecular structure of vehicle like water or of distinct chemical substance when it exists. Aim of this article is to show that Quantum Electro-Dynamics (QED) gives the required theoretical support for those properties of water and overcomes the theoretical hurdle also towards scientific basis of homoeopathy.

**Keywords:** structural model, theoretical support, scientific basis of homoeopathy

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## Introduction

High potency (greater than 12c) homoeopathic medicines are necessarily devoid of the starting medicinal substances as Avogadro number suggests. Chemically they cannot be anything except the diluting substance, that is, water. Still, we have the evidence that different such potentised substances act differently on living bodies. How the chemical-free water was accomplishing this job appeared to be incredible and mysterious for over two centuries. How to explain it was a great hurdle before the scientists. Thanks to the works of several scientists solution of the mystery seems to be in sight now.

## Quantum electro-dynamics and homoeopathy

It is obvious that water must have some special property by which it can hold some kind of medicine-plus-potency specific impression/information in its molecular structures. Such an obvious thing was not being given due importance. Based on three special properties of water, observed experimentally, Mahata CR proposed a structural model.<sup>1,2</sup> Experimental supports to this model are available in papers.<sup>2-8</sup> But, now Quantum Electro Dynamic (QED) investigation of water lays the foundation of the properties on which Mahata based the structural model. Scientists like Guidance ED and his co-workers<sup>9-15</sup> established a two-state model of water in which a substantial fraction of the molecules exist in hydrogen bonded state as coherent domains (CD) resembling that of ordinary ice. Thus the earlier finding of 'icicles'<sup>16</sup> in ordinary water gets QED-support. In a number of publications Konovalov AI and his group have shown presence of nanoassociates, that is, CD's<sup>17-24</sup> in diluted aqueous solutions.

How do the nanoassociates or CD's present in water further help homoeopathy achieve its scientific basis? Forms of these crystals are so varied in number that practically no two ice-crystals are identical.<sup>25,26</sup> It is found that each natural snow flake is distinct.<sup>26</sup> Now, these icicles or ice-crystals can be identified as CD's with our knowledge augmented by QED. Further, the shape and size of these molecular clusters are influenced by impurities, ions of other substances and even foreign molecules.<sup>16,25</sup> And these influencing

objects can very well be homoeopathic medicines in low or high potencies. A decisive amount of experimental data has also been collected concerning the physicochemical properties of water subjected to physical perturbations like Iteratively Nafionated Water (INW),<sup>27-29</sup> Iteratively Filtered Water (IFW),<sup>29-32</sup> effect of hydrophilic surfaces<sup>33,34</sup> and Extremely Diluted Solutions (EDS).<sup>35-40</sup> Roy Rustom, Rey L, Elia V<sup>41-43</sup> also indicate induced changes in structure of water. These are direct or indirect contributions in proving the existence of Coherent Domains (CD) in water. Prospect of water holding the key for unfolding the mystery has significantly brightened. Existence of CD means existence of stable water-clusters variously speculated as water polymers,<sup>44</sup> water clathrates<sup>45</sup> and induced water structures.<sup>1,2</sup> These water-clusters are shown to be specific to homoeo- medicines and their potencies.<sup>2,3,5-8</sup>

High dilution homoeopathic medicines continue to cure many diseases since the time of its discoverer S.C.F. Hahnemann. And if such medicines are nothing but structured water, then the obvious inference is that water structures do serve as medicines. However critics may demand a more direct proof – Such proof is available for antibiotics.<sup>46,47</sup> Investigations are required to establish this point for homoeopathy. But quite a few indirect proofs are available to us. If chemistry was the sole deciding factor, then we could not have Carbo-animalis and Graphites as two separate medicines in homoeopathy since the starting materials for both are chemically nothing but carbon. They differ in the structural arrangement of their constituent atoms. The homoeopathic medicine called X-ray does not have any chemistry even in its lowest potency. Structural change of molecular arrangement of the vehicle stands out as the only possible explanation. Homoeopathic medicines exposed to direct sunlight lose their medicinal value. Its only explanation left to us is melting/disintegration of structures of the vehicle or the preservative at high temperature. It is likely to be similar to loss of structures of doped semiconductors getting melted at high temperature. Homoeopathic medicines simply diluted in water (that is, without any preservative like ethyl alcohol) lose their medicinal value after 3-4 days. This may be explained by spontaneous disintegration and reorganization of water structures at room temperature.

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## Conflict of interest

The author declares no conflict of interest.

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