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Water is of a special importance in our life. It is virtually everywhere in use. The key industrial sectors employ many technological processes essentially inconceivable without water. For researchers, water is of special interest as a life-forming factor. Indeed, all things living in our planet consist of water by 90%. In adult humans, its share is about 70% of all substances making up the organism. Water is indispensable to maintain all physiological processes both in plants and animals and in humans. This is why so many research papers are focused on potable water and water usable for agricultural purposes. However, methodology usable in this area of research has a number of serious flaws preventing achievement of truly high-quality results.

First, the science of water is dualistic in perception of the subject matter of its investigations. On the one hand, water is theoretically understood as substance having the chemical formula of H<sub>2</sub>O. On the other hand, the term “water” is applicable to all that, which actually fills all seas and oceans, washes all riverbanks and lakeshores and is delivered to us via water supply systems. Unlike the substance “H<sub>2</sub>O”, such water contains all kinds of admixtures: colloidal particles, a wide range of chemical compounds dissolved in it and microbial contents. In natural environments, there is no thing like pure H<sub>2</sub>O or one drop of water absolutely identical to another. Lack of determinism applicable to the subject matter of any scientific investigations is unaffordable, as it inevitably makes room for doubts as to reliability of any findings researchers may have.

Second, there is no genuine understanding of the essential meaning of such notion as “potable water quality”. In Russian governmental standards, potable water quality level is identifiable dependently on whether potable water contains any of the so-called nutrients, which, in their essence, are foreign-matter inclusions into water and have no direct relation to biophysical nature of water.

Third, water intended for living organisms is, usually, studied in isolation from any relationships with its intended purposes. Such approach is inconsistent with methods usable by such sciences as system science and control. According to principles underlying the two disciplines of science, water intended for consumption by any living organisms should be treated not as isolated matter, but as a factor having its own impact upon their physiology.

Fourth, confined within the borders of officially recognized scientific theories, water researchers of today tend to ignore the huge pool of knowledge gathered patiently by many earlier generations, but not shaped into any elegant and intrinsically consistent theories or teachings so far. Here, mentioned should be made, first of all, of homeopathy – specifically, of homeopathy as related to processes usable in preparation of homeopathic drugs.

Having removed all existing methodological flaws, specialists of the research school made a study, the findings of which allowed them to make the following conclusions:

- 1) Water has an intrinsic quality identifiable not by presence (or absence) of any foreign-matter inclusions in it, but by the wide variety of its own biophysical states;
- 2) Water contained by any living organism has a universal set of properties non-existent in water contained in non-living environments;
- 3) The afore-said properties are of the informational class and can be purposefully shaped in any way within such water.

To meet all such purposes, AQUATOR technology was designed and patented in Russian Federation. Opportunities, such as are offered by AQUATOR technology in the purposeful shaping of any specific properties of water, were demonstrated in a number of tests performed in vivo – starting from individual cells and up to systems as large as human organism. For more details about findings of the studies, please contact Internet, site: [WWW.ECOTOR.COM](http://WWW.ECOTOR.COM).