

Editorial

The structural spectra of high dilutions and their unconventional application

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Until few years, the so-called implausible science, homeopathy, was on the verge of being rejected on conventional physicochemical grounds. The mere selection of ultrahigh dilutions (UHD) (homeopathic potencies) for experimentation by mainstream scientists seemed impossible, but the curiosity to explore the science behind homeopathy kept igniting intellectual minds.

There still exist a huge gap and a challenge to convince a conventional scientist to go beyond his domains and look for something which is apparently invisible (beyond Avogadro). But gradually we are overcoming this dogma and exploring the finer aspects and applications of UHDs. Much research has been undertaken, at least, to protect the identity of UHDs, and we are now at the verge of proving the plausibility of homeopathy from every aspect.

This issue of International Journal of High Dilution Research features two interesting articles on nature of UHDs and their unconventional application.

The first article by NC Sukul et al aimed to decipher the nature of the water structure of UHDs of two commonly used homeopathic drugs *Natrum muriaticum* and *Sulphur* by Laser Raman Spectroscopy. This work is in the series undertaken by the group, who earlier experimented using Nuclear Magnetic

Resonance; Electronic, Vibrational and Raman spectroscopy to show differences in UHDs of various drugs. The present experiment could differentiate the potencies (intensities) of *Nat-m* and *Sulph* when compared to respective controls, on the basis of hydrogen bond strength and free OH groups.

The second article by Nandy et al proposes a new dimension to the application of UHDs. In an interesting manner, the author used UHDs of *Ferrum metallicum* and *Zincum oxidatum* to improve the electrical properties of the electroactive Poly (vinylidene fluoride-hexafluoropropylene) (PVDF-HFP). The PVDF-HFP composite films were synthesized in their usual way, but an incorporation of *Ferrum* and *Zinc-o* could make the film as homeo-PVDF-composite. The enhancement of the electrical properties may be possibly due to the presence of nanoparticle, as hypothesized by the group.

The nature and application of UHDs are promising but challenging areas, which can only be validated through extensive research and validation. The realm of UHDs is expanding, and the day is not far when plausibility of homeopathy would be proved from every aspect.

International Journal of High Dilution Research.
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Cite as: Arora S. The structural spectra of high dilutions and their unconventional application [Editorial].
Int J High Dilution Res. 2016;15(1):1