

Title : "The role of water in DNA detection by PCR" by Luc Montagnier, MD, Claude Lavallée, PhD and Giuseppe Vitiello PhD. Fondation Luc Montagnier and Salerno University.

Abstract : Our recent theorization (Water-bridging Dynamics of Polymerase Chain Reaction in the Gauge Theory Paradigm of Quantum Fields, L. Montagnier, J. Aïssa, A. Capolupo, T. J. A. Craddock, P. Kurian, C. Lavallée, A. Polcari, P. Romano, A. Tedeschi and G. Vitiello, **Water 2017**, 9, 339; doi:10.3390/w9050339) as well as some experimental data, suggest that water molecular dipoles organized in nanostructures may be intermediary in information transfer between DNA double helix and the thermo-resistant polymerase of PCR. We will show sensitive detection of bacterial DNA in samples of water of different origins.