

CymaScope Imaging and Analysis of Cancer Cell and Healthy Cell Sonic Signatures in Water

In my 2016 presentation to the Water Conference I introduced the CymaScope instrument, which transposes sonic periodicities to water wavelet periodicities, thus making sound visible. I also demonstrated some of water's holographic properties. Sonification of signals is now commonplace in fields as diverse as Asteroseismology, the physics of Black Holes (via LIGO), Neuroscience and Biology. Therefore, an instrument that can render sonified signals visible offers a novel way to study such data. In my 2018 presentation I will show how the digitalised version of the CymaScope instrument can be used to differentiate between the sonic signatures of cancer cells and healthy cells, in pure water, and how the CymaGlyphs (visible sound signatures) arising from sonic cell signatures can be analysed quantitatively by a system developed by Professor Sungchul Ji of Rutgers University, New Jersey, called Planckian Distribution Equation. I will also discuss water's ability to store sonic frequency information (water memory) and I will show Faraday Wave phenomena occurring at the scale of human cells.