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## Vector-biomarkers Approach for Water Quality Monitoring

Many thanks for the invitation,

It is my pleasure being here and I am presenting this new work. So, it is well known that two main reasons for monitor and water quality consists mainly on physical and chemical analysis and secondly on biological monitoring method. We will focus on both but mainly we are dealing with working structural biology which means that we define the set of the markers that we use as a vector and then work on it for the quality.

The purpose of biological methods that are used, are used towards epidemiology so the main thing that they would like to prevent is not to enhance water quality but mainly having control the assessment of the environmental quality from biological point of view. From the other chemical analysis has main problems up to now such as the cost, the complexity, limited data from the chemical compounds that cannot be used continuously. Can all these be changed?

At first let us see what the world Health Organization is saying so we have the main parameter which are physical, chemical, toxic-metal, organic nutrients, bacteriological, biology radioactive elements. And those have been classified concerning the type species, the health significant, the resistance to water supplies the resistance to chlorine the infectivity and then some important animal sensors. But the main thing that happens is that not this classification which is the main guideline for the water quality. But the last form that have been newly published this year from the world Health Organization and this is for the first time that it has strict compilations by markers that you can see.

So you do not only have the water quality, the units and the entire main by our markers for the water but for the first time you have a validated formula that is correlated to all of them. How can this be used? This can be used during this algorithm that we are running so it is a program that we can have good data and big data classified and are correlated and we can derive a lot of queries from with very little introductory data. So, our approach is carefully validated clinical realistic motor for screen and managing the water quality that mainly use methods of high-performance computing and can be implemented as an innovative system to assess a monitor water quality through this study classification of the set of biomarkers. So, this can give us, finally a decision for system which can be used for the users to have optimal measurement and to have testing with other chemical and biological measurements.

Thank you very much!