

International E-Conference on

# PUBLIC HEALTH

April 19-20, 2021 | Webinar

## Environmental impact of spreading agro-industrial wastewaters and their efficient treatment

**Selma Hamimed**

University of Carthage, Tunisia.

Over the years, agro-industries have been one of the major contributors in the world economy. However, they are the main contributors to worldwide industrial pollution problem. With increasing of population growth, the consumption of natural resources is also increased causing a rise of generated wastes from agro-industries. Although, agro-industrial wastewaters are characterized by the presence of multiple organic and inorganic contaminants, which could potentially cause severe pollution problems. The high pollutant load, the large volumes produced, and the seasonal variability makes the untreated wastewaters a significant environmental problem such as eutrophication and ecosystem imbalance. Therefore, the development of cost-effective and environmentally friendly methods for the treatment of agro-industrial effluents is necessary to comply with the legal limits of release in sewer systems and/or in natural waters. A wide range of wastewater treatment processes is devoted involving physical, biological and chemical methods in order to reduce the toxicity and enhance the quality of discharged wastewater.

**Keywords:** Agro-industries; Environment; Public Health; Treatment; Wastewater.

### Biography:

Dr. Selma Hamimed is working as PhD researcher in the Faculty of Sciences of Bizerte, Carthage Univeristy, Tunisia. Recently, got her PhD diploma in Biological and Environmental Sciences. She is a scientist loyal to treatment of agro-industrial wastewaters via biotechnological and microbiological processes. Her research interests lie -amongst others- within biotechnological treatment and valorization of agro-industrial wastewater into high-added value products (food, nutraceuticals, biochemicals). As well as, interest in nanotechnology and the biosynthesis of various nanoparticles with pharmaceutical applications. Her undergraduate background is in Applied Biochemistry and Molecular Engineering can also be helpful in assessing a new biological approach in the environmental sector.