



International Life Sciences Institute India

***First ILSI India Symposium on
Safety and Benefits of Nanotechnology***

Agriculture, Water Safety, Food & Food Safety, Nutrition, Packaging

By

Date: Monday, 26 July 2021

Time 14.30 Hrs.-17.30 Hrs.-Indian Time

Background

Nano science and nanotechnology are the study and application of extremely small things and can be used across all the other science fields, such as chemistry, biology, physics, materials science, environmental science and engineering. Nanotechnology offers opportunity of manipulating the applications of material at minute nano level. A nanometer is one-billionth of a meter; there are 25,400,000 nanometers in an inch and the diameter of a human hair is, on average, 80,000 nanometers.

Nanotechnology or nanotech offers significant benefits in various sectors, including food, water and agriculture. According to a Joint FAO/WHO Meeting Report on "Nanotechnologies in Food and Agriculture" the number of nanotechnology-derived products and applications in these sectors has been increasing steadily in recent years, and are predicted to grow further in the future. New and emerging applications such as water purification systems, rapid detection systems for pathogens and chemical contaminants, and nano-enabled renewable energy technology applied along the food chain are few examples. Thus, nanotechnology may significantly contribute to addressing some of the challenges pertaining to sustainable agricultural development, as well as the food safety and food security issues that many countries are facing today – particularly developing countries. The concerns about the safety, of nanomaterials have been raised from time to time and hence it is important to be aware of the safety regulations and national and international requirements.

Symposium Objectives

1. To understand application of Nanotechnology in Agriculture, Food and Food Safety, Nutrition and Packaging.
2. To look at how Nanotechnology can be used for promoting Water Safety and Water Availability.
3. To discuss the Safety of Nanomaterials/products and International/national guidance/regulations for use of Nanotechnology.
4. To understand risk assessment process of Nanomaterials in Foods.

Output

Symposium Report will be prepared and widely disseminated for creating awareness about this new technology. Recording of the Symposium will be shared with the Attendees.

About ILSI India

ILSI-India is an entity of the International Life Sciences Institute (ILSI), headquartered in Washington DC. ILSI India is a nonprofit scientific organization provides scientific inputs and secretariat assistance to the South Asian Region, which includes Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka. It works on public health issues relating to Food and Water Safety, Risk Science and Toxicology, Nutrition and Wellness, Agriculture Sustainability and Nutrition Security and Environment.

ILSI-India carries out its mission through sponsoring workshops, symposia, conferences, seminars, training programs, research projects, and publications. ILSI-India works closely with government, industry, research institutions, academia, and international organizations. All ILSI India's work is guided by Principles of Scientific Integrity, ILSI India identifies and works on important new areas impacting human health and has pioneering work. Recently it has taken the initiative to set up center of excellence called **Knowledge Center on Functional Foods, Immunity and Gut Health (K-FFIG)** and a **Task Force on Nutrition and Brain Health (NABHI)** Please visit www.ilsi-india.org for further information.