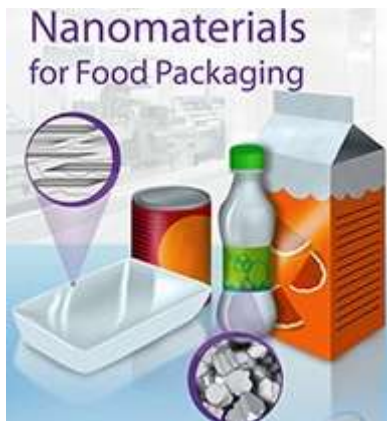


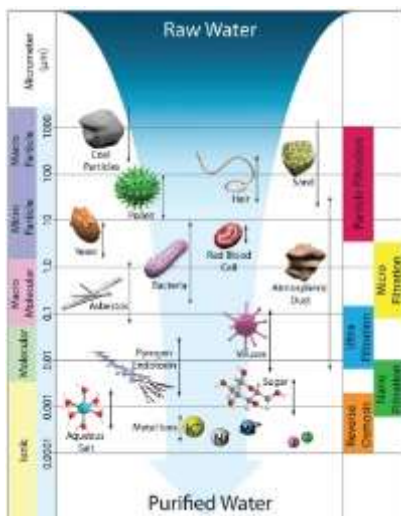
## Nanotechnologies:



Nano-materials can be used for food and beverage packages.



Nano-sensors can be used to monitor the condition of food and beverage.



Nano-filtration can be used to purify water in a more efficient and less costly way.

## Nanotechnology in the CPG Industry

Food/Beverage is Nano-Food/Beverage when nanoparticles, or nanotechnology techniques or tools are used during cultivation, production, processing, or packaging of the food/beverage.

### Applications of Nanotechnology in the CPG Industry:

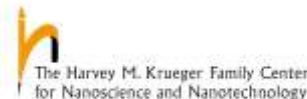
#### I. Techniques to Improve Cultivation (Nano-AgriTech)

#### II. Technologies for Production, Processing, or Packaging

- (i) **Optimization / Modification of Sensory Properties:** improved taste, color, flavor, texture and consistency of food/beverage products,
- (ii) **Food Ingredients, Encapsulation, and Delivery Systems:** increased absorption and bioavailability of nutrients and bioactive compounds,
- (iii) **Packaging:** nano-particles can be incorporated in food/beverage packaging materials with improved mechanical, barrier and antimicrobial properties to increase quality, shelf-life and safety of food/beverage products, and
- (iv) **Sensing:** nano-sensors can be used for tracing and monitoring the condition of food/beverage (spoilage / contamination) during transport and storage.

#### III. Technologies for Filtration & Water Treatment

Israel is a key player for innovation in this area:



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