



## Issues

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Dear reader,

Welcome to the September newsflash of the Innovation Society. We wish you an inspiring reading and we are looking forward to receiving your feedback!

Kind regards

The Innovation Society

## Annotations by the Innovation Society

### Regulation of nanomaterials

The Belgian Nano register is now available online, along with guidelines for registration and further information for users. It will enter into force on 1 January 2016. The Nanotechnology Industries Association (NIA) calls the proposed european update to the regulation of Novel Foods 'unworkable', since, according to NIA, it is 'vague and contradictory', among other things.

### Chances and risks of nanomaterials

The European Commission has assigned the 'Scientific Committee on Consumer Safety' (SCCS) with the judgment of safety aspects of spray applications for products containing nano-titanium dioxide, e.g. sunscreen. For other applications (i.e. not in spray form), the SCCS confirmed the safety of nano-titanium dioxide in 2013. Graphene is known to be an excellent heat conductor - a property which is, for example, used in order to improve the efficiency of light bulbs or cooling systems. Researchers at the University of Michigan could recently show that Coulomb interactions play an essential role in conducting heat in graphene. Consequently, they assume that further nanomaterials with layered structures might be used for the same purpose.

### Silica nanoparticles to repair damaged teeth



Researchers at the University of Birmingham have shown how the development of coated silica nanoparticles could be used in restorative treatment of sensitive teeth and

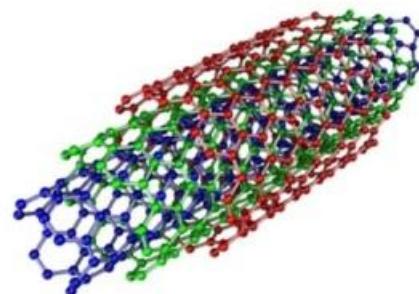
preventing the onset of tooth decay. [Read more](#)

### Regulation of nanotechnology in the AgriFood sector



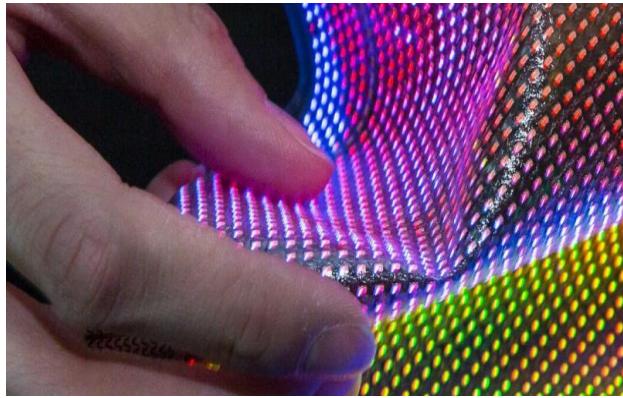
Regulatory frameworks dealing with the nanotechnological aspects of the agriculture, feed and food sectors are becoming more relevant, since the number of available nano-enabled products is steadily growing. Amongst various countries, different regulatory approaches have been applied. The EU and Switzerland have incorporated nano-specific provisions into their existing legislation. Other regions regulate these issues based on non-legally binding guidance. [Read more](#)

### Quantification of the release of CNTs from composites



Researchers from ETH and the Swiss Federal Laboratories for Materials Science and Technology (EMPA) have established a new measurement method to quantify the amount of free-standing and protruding multi-walled carbon nanotubes (MWCNTs). The results allow a prediction of the release of free-standing CNTs for the first time. In a worst-case scenario, up to 40 ppm of free-standing CNTs were released, representing a very low fraction of 0.004 wt%, but demonstrating that free-standing and protruding CNTs can be released in the scenario investigated. [Read more](#)

### Turning clothing into information displays



Researchers from Holst Centre at Ghent University in Holland have demonstrated the world's first stretchable and conformable thin-film transistor (TFT) driven LED display laminated into textiles. This paves the way to wearable displays in clothing providing users with feedback. [Read more](#)

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