Newsflash of the Innovation Society, St.Gallen
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Newsflash

Issue

Dear Sir or Madam

Welcome to our June newsflash of the Innovation Society, St. Gallen with the following News:

- Nano cigarettes are less harmful
- Ultimate Natural Sunscreen
- The Complex Interplay of Nanosilver and Wheat Roots
- The NanoFate Model assesses the Risk of Engineered Nanomaterials in the environment
- New Nanorama-Version for tablets and smartphones
- New SimplyNano 2 courses (in German)
- Internship "Emerging Risks / Nanotechnology"

Enjoy the reading and kind regards,

The Innovation Society, St. Gallen

Nano cigarettes are less harmful

Today's 31st May is World No Tobacco Day, which was launched by the WHO in 1987. Every year 6 million people die from the consequences of tobacco consumption. Tobacco smoke contains around 12,000 harmful substances. Among them are a number of carcinogenic substances, such as the reactive oxygen radicals. A group of scientists has now found a way to remove these radicals from the cigarette smoke with the help of nanoparticles, thus making smoking less harmful.

Read article

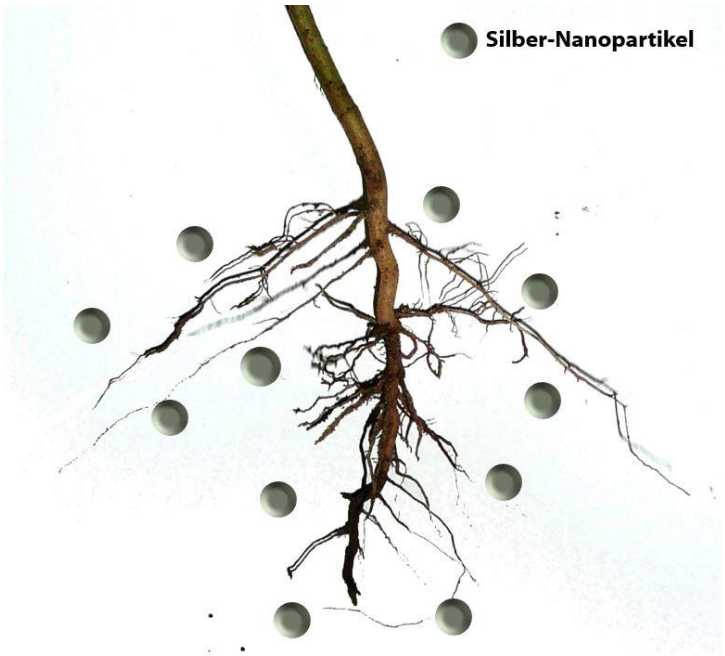
Ultimate Natural Sunscreen

Chemists, materials scientists and nanoengineers at UC San Diego have created what may be the "ultimate natural sunscreen".

In a paper published in the American Chemical Society journal ACS Central Science, they report the development of nanoparticles that mimic the behavior of natural melanosomes, melanin-producing cell structures that protect our skin, eyes and other tissues from the harmful effects of ultraviolet radiation.

Read article

The Complex Interplay of Nanosilver and Wheat Roots



Scientists have hypothesized that silver nanoparticles (Ag-NPs) may act as “Trojan horses” entering living organisms and then releasing silver cations (Ag+) over time, causing toxicity. This has been recently proposed as the mechanism by which Ag2S-NPs could be toxic to wheat and cowpea. New work by a team of French scientists evidences a more complex scheme – although the Trojan horse scenario is very likely to take place. Different reactions of the plant as a function of the initially used silver forms were determined. Data from this study showed drastic different responses of the plant depending upon the starting nanoparticles.

Read article

The NanoFate Model Assesses the Risk of Engineered Nanomaterials in the Environment

While there is currently no evidence that engineered nanomaterials (ENMs) pose a significant threat to the environment, many gaps in our knowledge remain with regard to ENM ecotoxicity. Researchers at the University of California, Santa Barbara, have developed a dynamic multimedia fate and transport model (nanoFate; not to be confused with the European NanoFATE project) to predict the time-dependent accumulation of metallic engineered nanomaterials across environmental media.

Read article

Nanorama-Versions now available for tablets and smartphones!

The DGUV Nano-Portal contains aside from exhaustive information material also interactive 360°-Nanoramas, which depict standards for a safe work environment with nanomaterials in different job fields. These applications have now been optimised for use on mobile devices (tablets, smartphones). This allows the nanoramas to be used “on site” during training, without the need for a computer or laptop.

Read article

New SimplyNano 2 courses (in German)

28.06.2017 SimplyNano 2 course in Erlen

06.09.2017 SimplyNano 2 course in Lachen

25.10.2017 SimplyNano 2 course in Domat/Ems

Internship "Emerging Risks/Nanotechnology"

We are looking for an intern to join our team in St. Gallen.

Find the job opening **here** (German only)

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