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Dear Sir or Madam

Welcome to our August Newsflash of the Innovation Society, St.Gallen with the following News

- Do you worry about nano-sunscreen?
- Super slippery packaging to reduce food waste
- Nanoparticles for white teeth
- Nano-silver against antibiotic resistance
- Nano-submarines against tumors (w/video)

Enjoy the reading and kind regards,

Dr. Christoph Meili
The Innovation Society, St. Gallen

Do you worry about nano-sunscreen?



Protecting your skin from the sun is the most effective way to reduce your risk of getting skin cancer. Yet for a few years now,

views have been expressed about the risk of using sunscreens as well as of not using them, because of the concerns about safety of some sunscreen ingredients - in particular the nano-sized ingredients that are incredibly small sized particles. The recent SCCS Newsletter concludes that there is only one worry...

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Super slippery packaging to reduce food waste



Almost everyone who eats fast food is familiar with the frustration of trying to squeeze every last drop of ketchup out of the small packets that accompany french fries. What most consumers don't realize, however, is that food left behind in plastic packaging is not simply a nuisance. It also contributes to the millions of pounds of perfectly edible food that Americans throw out every year. These small, incremental amounts of sticky foods like condiments, dairy products, beverages, and some meat products that remain trapped in their packaging can add up to big numbers over time, even for a single household.

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Nanoparticles for white teeth



In the age of Instagram and Snapchat, everyone wants to have perfect pearly whites. To get a brighter smile, consumers can opt for over the counter teeth-whitening treatments or a trip to the dentist to have their teeth bleached professionally. But both types of treatments can harm teeth.

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Nano-silver against antibiotic resistance

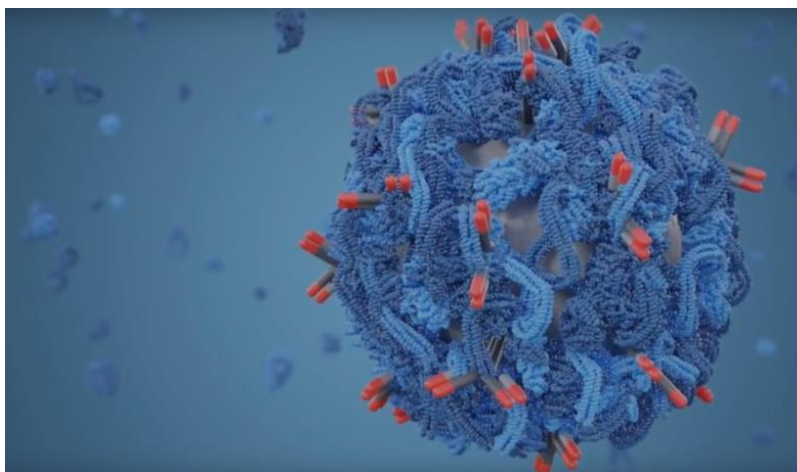


Scientists from the Palacký University (UP) in Olomouc have discovered a unique mechanism that enables bacteria to defend themselves against silver nanoparticles, which are widely used in antibacterial therapy. This mechanism does not require the bacteria to undergo genetic changes, and differs significantly

from mechanisms of antibiotic resistance. The scientists have also found a way to suppress bacterial resistance to nanosilver, which could be crucial in addressing the global antibiotics crisis. The revolutionary discovery was published in January on the cover page of the journal Nature Nanotechnology, arguably the world's most prestigious journal in the nanotechnology field. This is also the first paper published in this journal that was written exclusively by Czech authors.

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Nano-submarines against tumors (w/video)



Scientists at the Mainz University Medical Center and the Max Planck Institute for Polymer Research (MPI-P) have developed a new method to enable miniature drug-filled nanocarriers to dock on to immune cells, which in turn attack tumors. In the future, this may lead to targeted treatment that can largely eliminate damage to healthy tissue.

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