



With sustainability in mind from the outset

**Nanotechnology is to improve the conditions for humanity and the planet
– not contribute to new health and environmental problems.**

New knowledge and new technology have formed the basis of our fantastic civilisation, of which we should be proud. But sometimes the solutions have led to new problems. Global warming, polluted water, micro-plastics and other environmental problems are unwanted side-effects that we have created when we believe we have found the keys to a better world.

With nanotechnology, we use Nature's own architecture in pioneering methods to address the climate threat and other major challenges in a sustainable way. And this time we will get it right from the outset! Sustainability runs as a constant theme through NanoLund and the new laboratory.

Nanoparticles are nothing new. They were around long before humans existed. When Nature bonds the world we live in, it happens at the nano level. Salt and proteins are examples of nanoparticles which are completely essential to our existence, whereas others, such as viruses, entail health risks for humans. Nanoparticles occur naturally in our surroundings.

Understanding the biological processes in exposure to the tiniest, naturally occurring particles is a condition for assessing the health and environmental effects of industrially produced nanoparticles.

We need knowledge about the effects on human health and on the planet's ecosystems before new products based on nanotechnology are put into production and reach the market on a mass scale.

This is why cell biologists, protein chemists, ecotoxicologists, aerosol researchers, occupational and environmental medicine researchers and social scientists are collaborating at NanoLund.

We are to develop new, integrated methods for health and environmental assessments in our new laboratory for nanoscience. Good health and environment effects of nanotechnology are to be weighed up against any potential negative effects, at an early stage in the research process.

ETHICS AND RESPONSIBILITY ARE KEY WORDS IN NANOLUND'S SUSTAINABILITY POLICY

Sweden is ranked at the top in international assessments of countries' innovation climate. Sweden has research with high transparency, a high reputation in environmental and safety issues and low levels of corruption. Nanolab Science Village is to be the world's foremost laboratory for optimal, industrial applications of nanotechnology for a sustainable world!

Imagine this being possible thanks to you!

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