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Deutschland - Danmark



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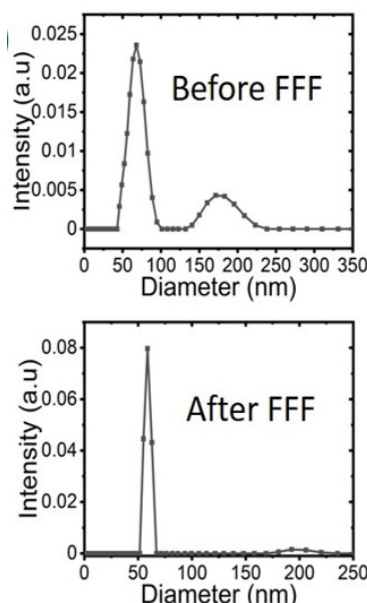
Dear Readers

A strange year ends and despite all the difficulties with partial and total lockdowns we could continue with CheckNano and look back to many good achievements. This newsletter informs about some of the latest progress.

We wish all of you a Merry Christmas, God Jul, Frohe Weihnachten

Yours sincerely,

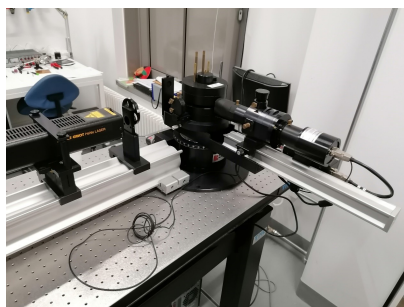
Katharina on behalf of the CheckNano team

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## Lab-on-chip (LoC) nanoparticle sorting

The analysis of nanoparticles (NPs) in biological matrices poses many challenges when trying to sample specific particles. We explored various Lab-on-chip (LoC) filtering components, with a particular focus on Field-flow fractionation (FFF) coupled with 3D dynamic light scattering (DLS) to provide size-related information. The LoC allows us to work on a small scale and with small amounts of sample solvents.

[Read more](#)



## De-polarized dynamic light scattering by silver nanoparticles

Dynamic light scattering (DLS) is one of the most widely used techniques for the study of colloidal systems. It is a fast, convenient and relatively simple technique, enabling absolute estimates of particle size for a wide range of colloidal suspensions including suspended metal nanoparticles. We apply additional polarization filters for better results.

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## nanomaterials

Last year the caLIBRAte EU project had its final conference, and they publish important support for safe handling of nanomaterials on the [Nano-Risk Governance Portal](#).

You find information around nanotechnology, nanomaterials, consumer products, regulation and research.

## Nano Database in Denmark

The [Nano Database in Denmark](#) lists products that are available in Denmark and the European Union. A search for Nanosilver reveals 442 products. The list informs about risk categories, colour coding the potential hazards regarding the exposure for professionals, consumers and the environment and in the last two categories, the effects on humans and the environment. The colours signify whether the indications

of **exposures** or **effects** separately are high (**red**), medium (**yellow**), low (**green**), or unknown (grey).

You can search the database in many different categories. The evaluation scheme allows a quick judgement of possible hazards. Part of the webpage is also available in Danish.

The most important rules when dealing with nanoparticles for Denmark can be found [here](#).



## Researcher Roana M. de Olivera Hansen from Nanosyd received this years BHJ Innovation Award

One of South Jutland's big humanitarian and cultural funds, BHJ

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4 December in Sønderborg.  
Roana is part of our CheckNano team in Sønderborg. She is a specialist for sensors. In CheckNano, she helps in new ways to miniaturize the detection setup with the help of microfluidics. In a short video, she presents her research. Check it out [here](#) at the lower end of the page.



## Project work in a condensed time – Mid-term evaluation and prolongation

All Interreg projects go through an evaluation at mid-term. The evaluators look into different categories like communication in the project, the steering, achievement of aims and the benefit for the region. [We managed very good, read more](#)

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CheckNano is funded by the European Regional Development Fund.  
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