



**Interreg**  
Deutschland - Danmark



EUROPEAN UNION



Dear Readers

Some of you receive an invitation from Kienbaum to answer a questionnaire about CheckNano. This is part of an evaluation and we highly appreciate your contribution! All Interreg projects go through this process.

This newsletter brings you articles about our new partner CPHNANO with whom we address the detection of nanoparticles in a food matrix. Another approach is CAPA, that Prince describes in his article about a collaboration with Tomas Tamulevicius, Kaunas University of Technology.

Our teams increased and you find an introduction to our new coworker Holger Rehmann, that joined the team in Flensburg, below.

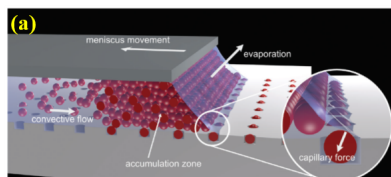
Yours sincerely,

Katharina on behalf of the CheckNano team



CPHNANO is a new cooperation partner for CheckNano

[CPHNANO](#) is a new cooperation partner of CheckNano. The company in Lyngby develops new ways to execute simple laboratory experiments to make the measurements more efficient and reliable and at the same time affordable to people that did not have the facilities before. Emil Højlund-Nielsen was so kind as to answer a few questions to us, supplemented by some experimental details from Assoc. Prof. Jacek Fiutowski.



## CAPA a promising method to detect nanoparticles in a food matrix

Prince Gupta visited the Kaunas University of Technology, Lithuania, for training and hand-on experience on capillary force assisted nanoparticle self-assembly (CAPA). This visit was fruitful and provided insight into the experiment in a broad scientific frame. [Read more](#) about the principles of this method and its challenges.



## New Postdoc at Hochschule Flensburg: Dr. Holger Rehmann

I studied Biochemistry at the Ruhr-University in Bochum, Germany. I prepared my PhD thesis at the Max-Planck-Institute for Molecular Physiology in Dortmund in the laboratory of Alfred Wittinghofer. I defended the thesis dealing with the biophysical characterisation of proteins involved in second messenger signalling at the University of Utrecht, The Netherlands, in 2003. In the same year, I joined the group of Johannes Bos at the University Medical Center Utrecht as PostDoc and where then appointed as Assistant Professor in 2007. I determined the crystal structures of the cAMP-regulated Epac2 protein both in the inactive and active conformation and developed in an iterative, rational drug design process, nucleotide analogues that selectively activate Epac2 but not related cAMP receptors. I could demonstrate that these analogues have the potential to induce insulin secretion.

Furthermore, I applied mass spectroscopy to identify protein-protein interactions with a focus on signal transduction processes mediated by small G-proteins. In 2016 I founded the Expertise

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pathogenic gene variants.

In 2020 I joined the University of Applied Science in Flensburg and became part of CheckNano. I will support our partners to understand and characterise the interaction between silver nanoparticles and biological matrices.



RAN 2020,

[5th World Congress on Recent Advances in Nanotechnology](#)

Deadline for contributions: July 1, 2020

Due to the pandemic, most conferences got cancelled for 2020. Please check out the conference list on our [homepage](#).

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CheckNano is funded by the European Regional Development Fund.

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