

Press release

Prof. Enrico Mastrobattista joins Hudson River Biotechnology's Scientific Advisory Board and will advise on nanoparticle delivery

13 January 2022 - Professor Enrico Mastrobattista, full professor of Pharmaceutical Biotechnology & Delivery at the department of Pharmaceutical Sciences of Utrecht University, joins the Scientific Advisory Board of Hudson River Biotechnology (HRB).

Prof. Mastrobattista's expertise lies in drug delivery, pharmaceutical biotechnology and nanobiotechnology. He currently leads a research program to develop biomimetic drug delivery systems for the targeted delivery of proteins, peptides and nucleic acids at the nano-scale. Prof. Mastrobattista has published over 120 scientific articles, contributed to several book chapters in pharmaceutical biotechnology, and holds several patents to his name. He has received a Vici and Vidi grant and has been awarded the prestigious Prix Galien Research Award for his work on drug delivery.

Building on the applications in our TiGER workflow, HRB has crossed over to applying nanoparticles for delivery of agro-biologicals in plant tissue. This is highly relevant for both delivery of editing agents to plant cells in a lab environment and enabling efficient use of crop inputs in field practices. As a member of HRB's Scientific Advisory Board, Professor Mastrobattista will advise HRB on its developments surrounding such nanoparticle delivery systems.

Ferdinand Los (CSO): *"As an expert on nanoparticle-based drug delivery systems, including of CRISPR, prof. Mastrobattista will be invaluable to our company's efforts in developing nanoparticles for delivery of CRISPR across plant cell walls, as well as in exploring and developing other applications for our nanoparticle systems."*

Prof. Enrico Mastrobattista: *"There is much to be gained from applying delivery systems developed for medical applications in the fields of agriculture and food. Despite the differences between human and plant cells, I see sufficient starting points and possibilities to make, with the right adjustments, these types of delivery systems suitable for gene editing in plants."*

Prof. Mastrobattista completes our Scientific Advisory Board, joining Prof. Patricia Dankers and Prof. John van der Oost. With these three excellent scientists, the expertise within the board covers the full breadth of our solutions and will help HRB grow in innovation and scientific excellence. Prof. Dankers is full professor of Biomedical Materials & Chemistry at the department of Biomedical Engineering and the Institute for Complex Molecular Systems of Eindhoven University of Technology. She advises HRB on the automation and scaling of our TiGER workflow. Prof. John van der Oost is head of the Bacterial Genetics group in the Laboratory of Microbiology at Wageningen University. He advises HRB on the

further refinement of the TiGER workflow. HRB is extremely pleased to maintain close collaboration with such a distinguished group of expert scientists.

About Hudson River Biotechnology B.V. (HRB)

HRB is an independent technology provider, specialized in plant breeding, crop production, genetics, and biotechnology. Through our work, we intend to deliver on the promise that crop improvement can address the demands of a resilient, sustainable bioeconomy. Since HRB's founding in 2015, we have established a name in the market as a go-to player for disruptive innovations and cutting-edge technological developments. As our first portfolio technology, we have worked with a variety of companies to develop new traits and solve technological barriers in gene editing with CRISPR. In 2021, we have expanded our portfolio to offer delivery of biologicals and small molecules in field applications through nanotechnology.

HRB's customers range from large multinationals to family-owned businesses in, for example, the food, pharmaceuticals, plant breeding and biotech industries. Our goal is to make plant-focused technologies accessible, tailor-made to each customer and create mutual success.

For more information, please contact:

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