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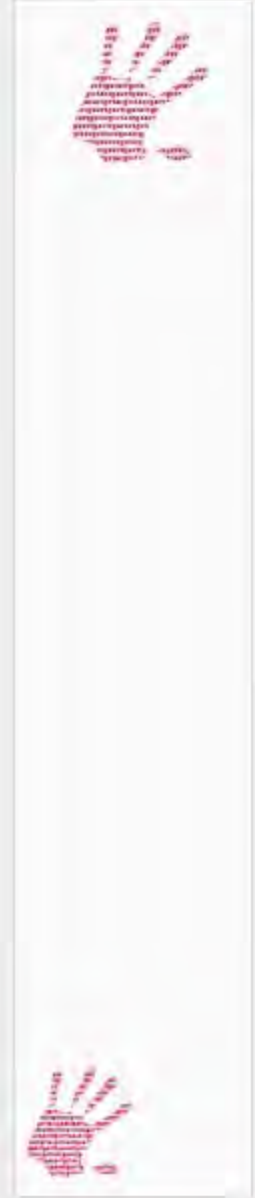
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Sustainable Operations, Facilities, Laboratories, Processes

December 2-3
Sheraton Society Hill Hotel
Philadelphia, PA

PODCAST: This Week's Interview (November 05, 2009)



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INTERVIEW: NANOTECHNOLOGISTS CREATE ARTIFICIAL PORE - Interview with Peixuan Guo, Ph.D., Director of the NIH Nanomedicine Development Center at the University of Cincinnati, Endowed Chair, and Professor of Biomedical Engineering



Using an RNA-powered nanomotor, University of Cincinnati (UC) biomedical engineering scientists successfully developed an artificial pore able to transmit nanoscale material through a membrane.

In a study led by Dr. Peixuan Guo, members of the UC team inserted the modified core of a nanomotor into a lipid membrane. The resulting channel enabled them to move both single- and double-stranded DNA through the membrane.

During this week's podcast Dr. Guo talks about the creation of the RNA nanomotor and provides additional details on how it was used and on the results that were obtained. He discusses the key differences between the UC team's single pore construct and other systems and explains the importance of such differences.

Dr. Guo goes on to explore the potential use of the engineered biopore channel and looks at some of the broader applications of the method by which the scientists were able to move DNA through the membrane.



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