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An electrolysis micropump's biomedical applications

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In recent years, diagnostic screening has drawn increasing attention. The advantages of BioMEMS technology include low fabrication cost, low sample consumption, and a rapid reaction rate suitable for point-of-care testing. Processing samples and reagents in array form could provide a breakthrough for clinical medicine and drug delivery development. Many studies have been conducted on the microprobe for biological applications, but most of them, such as the work of Professor Wise's team, focused solely on electrode probes for electrophysiology applications. However, attention to treatment requirements and microprobe design with flow channels is preferable. It has the capacity for drug delivery; furthermore, it is superior in long-term medicine injections and medicine gradient generation.

Biography

Shih-Chi Chan has completed his PhD at National Tsing Hua University and research work from IRCAD Taiwan. He got the Outstanding Chemical Engineering Article of the Year 2010, Oct. 2010. Since March 2018, he has been a Researcher in the Hsiao Chung-Cheng Healthcare Group, Taiwan, Republic of China. He presently works at the Hsiao Chung-Cheng Healthcare Group, where he focuses on the development of the microsystems and Bio-ultrasound.

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