



NCI Alliance for
Nanotechnology
in Cancer

Researchers at the MIT-Harvard Center of Cancer Nanotechnology Excellence (CCNE) have developed a hybrid microfluidic/semiconductor chip for single cell analysis. Integrating microfabricated Hall sensors and microfluidic networks, the chip can accurately detect individual, magnetically-labeled cells directly in unprocessed specimens. The image shows a prototype device consisting of a Hall-sensor substrate and a microfluidic structure on top.

Image Credentials: David Issadore, Ph.D.; Hyun Jung Chung, Ph.D.; Hakho Lee, Ph.D.; and Ralph Weissleder, M.D., Ph.D.

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