New genomic sequencing method enables ‘smarter’ anaysis of individual cells

Research published in the July 22 issue of *Nature Biotechnology,* shows for the first time that a novel genomic sequencing method called Smart-Seq can help scientists conduct in-depth analyses of clinically relevant single cells. Smart-Seq has many possible applications, including helping scientists to better understand the complexities of tumor development. This is vitally important as many clinically important cells exist only in small numbers and require single cell analysis. The study was conducted by a team of researchers from the Ludwig Institute for Cancer Research, the Karolinska Institutet in Sweden, the University of California, San Diego and Illumina Inc.

“While our results are preliminary, we showed that it is possible to do studies of individual, clinically relevant cells,” says biomedical scientist Rickard Sandberg, researcher at the Ludwig Institute for Cancer Research and principal investigator at the Department of Cell and Molecular Biology, Karolinska Institutet. “Cancer researchers around the world will now be able to analyze these cells more systematically to enable them to produce better methods of diagnosis and therapy in the future.”

View the original article here: New genomic sequencing method enables ‘smarter’ anaysis of individual cells