

Single-cell Omics: Emerging Technologies and Markets

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Abstracts

Report Scope:

The scope of this report includes single cell analysis technologies, applications, industries, major funding initiatives, patents and companies. The market sizes for single cell products are given for the years 2015, 2016, 2017 (estimated) and 2022 (forecasted).

This report reviews the single cell workflow steps and technologies and provides background on why single cell analysis is important. It then discusses some of the top research initiatives that are contributing to single cell applications. Market driving forces are also discussed.

The structure of several important industry subsectors is reviewed, as well as major industry acquisitions and strategic alliances from Jan. 2016 to Sept. 2017. Industry subsectors analyzed include target enrichment, droplet digital PCR, single cell DNA polymerase, DNA amplification, next generation sequencing (NGS) instruments, single cell proteomics, circulating tumor cell (CTC) capture and detection, liquid biopsy, preimplantation testing and immune sequencing.

The market for single cell analysis technologies is analyzed in depth. The market is analyzed by end user, application field, product type, omics method used, cell type, clinical indication and geography.

Specific geographic markets are discussed, including North America, Europe, Asia-Pacific and the rest of the world.

Market data covers the years 2015, 2016, 2017 (estimated) and 2022 (forecast).

More than 90 companies in the single cell analysis industry are profiled in this report.

BCC Research provides a summary of the main industry acquisitions and strategic alliances from Jan. 2016 through Sept. 2017, including key alliance trends.

Report Includes:

71 tables

An overview of the global markets and emerging technologies for single-cell genomics and proteomics

Analyses of global market trends, with data from 2016, estimates for 2017, and projections of compound annual growth rates (CAGRs) through 2022

Cell isolation technologies, including flow cytometry, laser capture microscopy, and micromanipulation

Sample preparation technologies, including microfluidics, whole genome amplification/pre-amplification

Analyses of next-generation sequencing, qPCR/PCR, microarrays, mass spectrometry, and microfluidics

End-use industry coverage, including research, drug discovery and development, diagnostics, and applied

Evaluation of the market's dynamics, including growth drivers, restraints, and opportunities

Profiles of major players in the industry including 1 Cellbio, 10x Genomics Inc., Angle PLC, Aviva Biosciences, Boreal Genomics, Dolomite Bio and Hifibio

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Single-cell Analysis Program

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Harvard Medical School Single-cell Core

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National Center for Single-cell Biology

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1 CELLBIO

Single-cell Omics: Emerging Technologies and Markets

10X GENOMICS INC.
ACCELERATE DIAGNOSTICS INC.
AGILENT TECHNOLOGIES INC.
AMBRY GENETICS
ANGLE PLC
APOCELL INC.
ASURAGEN INC.
ATRECA INC.
AVIVA BIOSCIENCES
BECTON, DICKINSON AND CO.
BERRY GENOMICS CO. LTD.
BGI SHENZHEN
BIOARRAY S.L.
BIOCEPT INC.
BIOFLUIDICA INC.
BIO-RAD LABORATORIES INC.
BIO-TECHNE LTD.
BOREAL GENOMICS
CELL MICROSYSTEMS INC.
CELSEE DIAGNOSTICS
CELLULAR RESEARCH INC.
CHRONIX BIOMEDICAL
CIRCULOMICS INC.
COOPER SURGICAL INC.
CYNVENIO BIOSYSTEMS INC.
CYTENA GMBH
CYTOLUMINA TECHNOLOGIES CORP. INC.
CYTOTRACK APS
DANAHER CORP.
DIAGNOLOGIX LLC
DNA ELECTRONICS LTD.
DOLOMITE BIO
ENGINE BIOSCIENCES PTE. LTD.
EPIC SCIENCES
EXOSOME DIAGNOSTICS INC.
FETOLUMINA TECHNOLOGIES CORP.
FLOWJO LLC
FLUIDIGM CORP
FLUXION BIOSCIENCES INC.

GE HEALTHCARE
GIGAGEN INC.
GILUPI GMBH
GOOD START GENETICS INC.
HIFIBIO
HTG MOLECULAR DIAGNOSTICS INC.
ILLUMINA INC.
INCELLDX INC.
ISOPLEXIS CORP.
KELLBENX INC.
LABORATORY CORP. OF AMERICA INC.
LGC BIOSEARCH TECHNOLOGIES
MENARINI SILICON BIOSYSTEMS
MERCK KGAA
MISSION BIO INC.
MUSE BIOTECHNOLOGY INC.
NAMOCCELL INC.
NANOCELLECT BIOMEDICAL INC.
NANOSTRING TECHNOLOGIES INC.
NATERA INC.
NEW ONCOLOGY GMBH
NODALITY INC.
NUGEN TECHNOLOGIES INC.
OXFORD NANOPORE TECHNOLOGIES LTD.
PACIFIC BIOSCIENCES OF CALIFORNIA INC.
PERKINELMER INC.
QIAGEN NV
RARECELLS SAS
RARECYTE INC.
RAVATA SOLUTIONS
REPRODUCTIVE HEALTH SCIENCE PTY LTD.
RESOLUTION BIOSCIENCE INC.
ROCHE HOLDING AG
ROYAL PHILIPS
SCREENCELL
SENGENICS INTERNATIONAL PTE LTD.
SINGULOMICS CORP.
SOMAGENICS INC.
SPHERE FLUIDICS LTD.

STRATEC BIOMEDICAL AG
SWIFT BIOSCIENCES INC.
SYGNIS AG
SYSMEX CORP.
TAKARA BIO INC.
THERMO FISHER SCIENTIFIC INC.
THORNE DIAGNOSTICS INC.
TROVAGENE INC.
TUMORGEN MDX LLC
VITATEX INC.

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