

cellenCHIP™

INNOVATIVE NANOWELL CHIP FOR MINIATURIZED SINGLE CELL OMICS APPLICATIONS



The cellenCHIP is a **nanowell chip** offering **miniaturized** wells to enable open reactions in nanoliter volumes.

Convert your microliter **library preparations** to highly efficient nanoliter reactions with dramatic **cost savings**.

COMPATIBILITY

Many **Microplate-Based Library Preparations**

Additive Processing for **Multiple Interventions and Incubation** Steps

Composed of **Chemically Inert, Biocompatible COP**

High Optical Clarity and Low-Autofluorescence for Cell Imaging

Standard SBS and Slide Processing (centrifuges, thermocyclers etc.)

MINIATURIZATION

384 Wells within a **Microscope Slide**

Scalable Experiments from **96 to 3072** Single Cells

Optimized for **Nanoliter Single-Cell Assays** with cellenONE®

Significant Volume Reduction with Scalable Working Volumes from 20-400 nL/well

High Recovery Pooling for Liquid Transfer to Standard Microliter Preparations

Well **Barcoding** Available with cellenONE® or as a Custom Service by SCIENION

INNOVATIVE NANOWELL CHIP FOR
MINIATURIZED SINGLE CELL OMICS APPLICATIONS



scRNA-Seq



scWG-Seq



scATAC-Seq



sc-MS



scYour-Seq



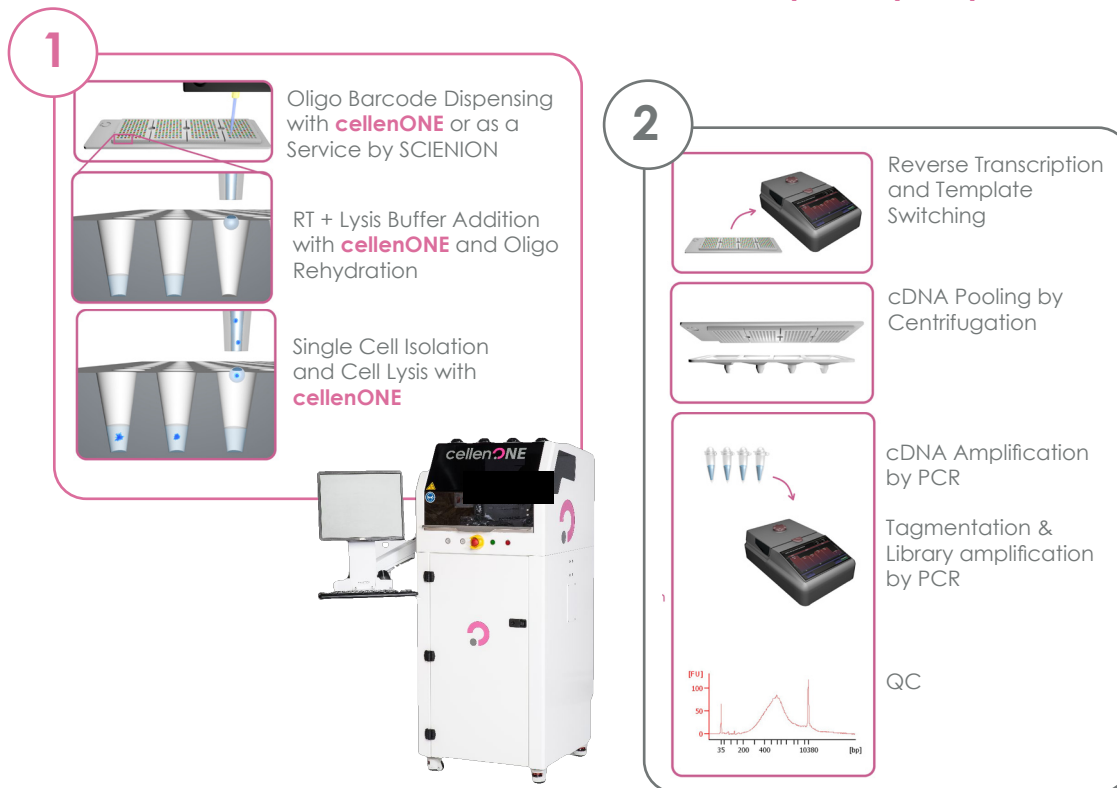
cellenONE, an automated single cell isolation and dispensing system based on **patented piezo-acoustic technology**, allows precise single cell deposition into a wide range of microplates (96, 384, 1536) and nanowell substrates. It is an **open platform** where **single cells** are isolated and **reagents** are dispensed using a **single device**.

cellenONE uses automated cell **image recognition** to ensure only single cells are deposited in every position. Optional fluorescence imaging can be used to select only living cells or specific cells of interest.

cellenCHIP Specifications: Same But Smaller

Material	COP for superior combination of clarity, thermal stability, biocompatibility, low-autofluorescence, flatness and chemical resistance
Number of Wells	4 x 96-well arrays (384-wells)
Working Volume	20 - 400 nL
Temperature Range	-80C - +120C
Dimensions L X W x H (mm)	75 x 25 x 1.2 (with 2 mm array surface)
Film Bottom	Adhesive-free film bottom for high-quality optical imaging
Color	Available with black or clear wall
Device Compatability	cellenONE X1, cellenONE F1 and many microscope slide consumables

cellenCHIP: Automated Workflow for scRNA-seq Library Preparation



Benefits
cellenCHIP™

- 384 Nanowell Slide**
- Significant Volume Reduction**
- Improved Assay Sensitivity**
- Microplate Protocol Compatability**

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