GENOME-ENGINEERING SERVICES

PROFESSIONAL | OPTIMISED | FLEXIBLE

WHAT WE OFFER

∖ Knock-outs/Knock-ins

∖ Gene tagging

- SNP/mutation insertion & correction
- **∖** Larger knock-ins

We offer highly flexible services from project consultancy to scale-up and banking of your master cell bank. Our team of experienced cell scientists possesses several years of in-depth and hands-on knowledge to accelerate your iPSC genome-engineering projects.

From initial project consultancy to eventual scale-up and banking of your master cell bank, our team delivers high-quality results. With several dozen cell-line engineering projects under our belt, we have established and operate a cell-engineering pipeline exceptionally adapted to genome-editing projects utilizing iPSCs.

Our pipeline covers the entire workflow – from project planning to master cell bank. Alternatively, we offer various entry points into our pipeline that can benefit your projects.

Start your project with us today!

SiotaSciences

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Stay in touch



Handling and delivering the single cells that matter!





isoCell

Isolate, feed and harvest your cells

Automatically isolate, feed and harvest your cells for consistent results in every experiment, e. g. cell-line development.

The **isoCell** manages all tedious pipetting steps for you: isolating single-cells, feeding at any interval you choose and then havesting your culture for downstream analysis. Automated wireless data-transfer between **isoCell** and **isoHub** guarantees a seamless and efficient workflow.

isoPick

Isolate and pick single cells

Automatically isolate and pick single cells - gently! The **isoPick** manages all tedious pipetting steps for you: dispensing cells into **GRID** chambers, and transferring selected single cells flexibly into different formats compatible with your downstream applications! Wireless communication between **isoPick** and **isoHub** guarantees a seamless and efficient single-cell isolation process.



isoHub

Verify monoclonality and track your clones

After single cells are plated into **GRID** chambers, cells are imaged using **isoHub**. Entire **GRID** chambers can be viewed in the absence of optical edge effects typically associated with conventional culture plasticware, allowing absolute confidence in identifying chambers that contain a single cell. The **isoHub** automates navigation through **GRID**s and allows tracking of your clones, either using brightfield or fluorescent mode.



Cooling packs as accessories

Effortless single-cell cloning with high-quality outcome

- Cutting-edge technologies
- Innovative products
- Flexible services

4X 10K

GRIDTechnology

What are GRIDs?

- 256 cell-culture chambers
- 1.8 mm x 1.8 mm area per chamber
- < 1 µl working volume per chamber

Single-cell cloning in optically clear chambers and small volumes GRIDs comprise the core of an automated and streamlined single-cell isolation and cloning workflow developed by iota-Sciences. The chambers' small size and optical clarity allows highy reliable inchamber verification of clonality with the isoHub directly after plating, while the isoCell or isoPick automate all tedious liquid handling steps.

isoHub Imaging

Document clonality with whole-chamber images

The **isoHub** imaging system allows users to document monoclonality and clonal outgrowth at a click of a button. Simply select **GRID** chambers that contain a single cell and the imaging system will record and document your selection with a whole- chamber image. Users can easily take follow-up images of relevant chambers throughout the process and document clonal outgrowth. Image files are auto-named and sorted according to the chamber's details, providing a history for each selected single cell - from start to finish - for a fully transparent process record.





isoHub Fluorescence

4-channels & 16 LED wavelengths – any fluorophore

The Cloning Platform features a pE-4000 illumination system for fluorescence microscopy. The system is controlled via a highly user-friendly touchpad and allows the detection of all commonly used fluorescent molecules, including GFP, RFP, DAPI and many others.