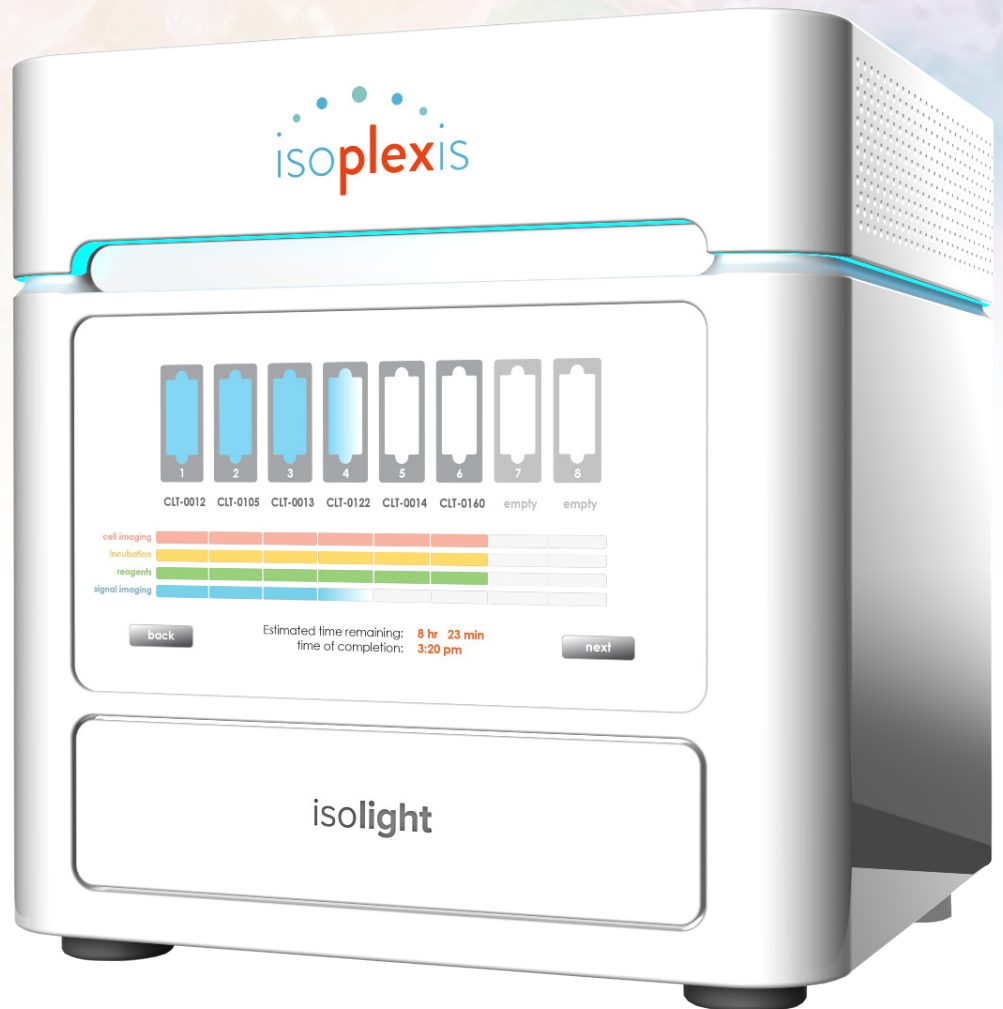
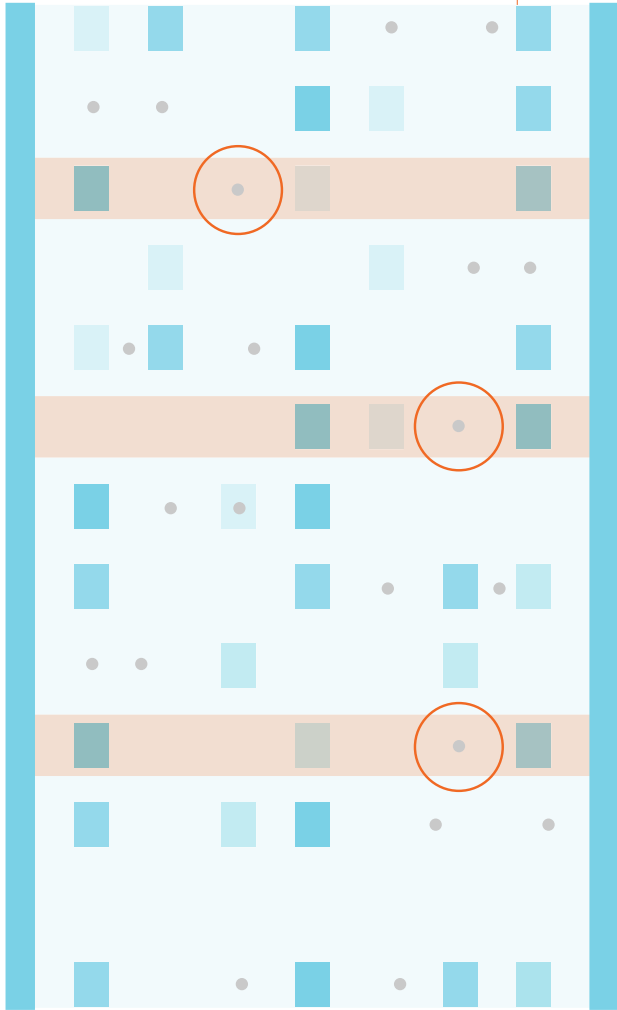


isolight[®]

A single-cell, secreted protein analysis system





Predictive Single Cell Response

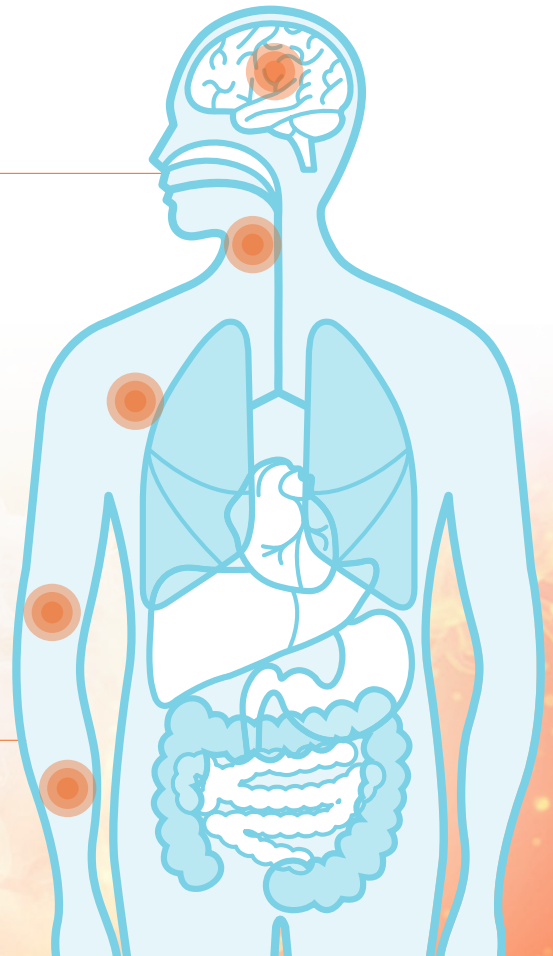
The **IsoLight**[®] is a versatile, precision engineering platform designed to understand and characterize differences among single cells, mapping thousands of cells per sample, to reveal full functional profiles and polyfunctionality among cell subsets to determine patient response and product quality.

Running the patented consumable **IsoCode**[®] Chip, (known formerly in the literature as single-cell barcode chip or SCBC), the **IsoLight**[®] system captures single-cell, secretomic, cytokine profiles from thousand of single cells in parallel to better understand complex immunotherapy patient response.

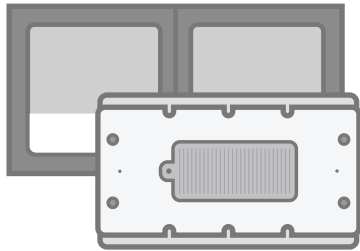
Our **IsoSpeak**[®] Informatics platform helps discover new patient relationships amongst heterogeneous cells and clearly defines subsets of powerful, multi-functional protein secreting cells that can help predict patient outcome and determine disease progression.

Discover the benefits of Precision Profiling[™] with **IsoLight**[®]

The first and only system designed to discover new information in immunotherapy, including CAR-T and TCR-T product characterization, clinical biomarker discovery, and patient monitoring, and biomarkers for checkpoint-inhibitor and combination therapies.



IsoCode[®] Technology (SCBC)



1. Load sample onto IsoCode[®] Chip

Simple and Easy to Use

- Less than 10 minutes of hands-on time
- One pipette operation per sample
- Single plug-n-play cartridge with built-in waste container
- Automated sample tracking barcode scanner
- Built-in bioinformatics for intuitive data analysis



2. Insert up to 8 IsoCode[®] chips and reagent cartridges into the instrument

Highly Versatile

- A benchtop instrument that fits into every lab
- 1 to 8 chips per run with a throughput of 1k to 10k single cells
- Up to 36 analytes per single cell measured



3. Review and release results using IsoSpeak[®] software

Impactful Data*

- Comprehensive, high dimensional cellular profiling
- Highly specific and sensitive results
- Enhances discovery of clinically relevant biomarkers
- Enables improved targeting and monitoring of complex treatments
- Ensures consistent and improved cellular product manufacturing

*based on validated data in 40+ publications: www.isoplexis.com/publications

System Specifications

Working Environment

For indoor use only
Operating temperature: 59 - 77°F (15 - 25°C)
Humidity: 40 - 60%, non-condensing
Altitude: < 6,500 ft (2,000 m)

Dimensions

Width: 28.5 in (72.5 cm)
Height: 30.5 in (77.5 cm)
Depth: 28 in (71 cm)

Weight

Crated for shipping: 300 lb (136 kg)
Free standing: 250 lb (114 kg)

Bench Size

Width: > 36 in (91 cm)
Depth: > 24 in (61 cm)

Clearance

Front: > 36 in (91 cm) aisle for operator access
Rear: > 4 in (10 cm)
Left: > 4 in (10 cm)
Right: > 4 in (10 cm)

Power Supply

Voltage: 100 V (min) to 240 V (max)
Current: 14 A (max)
Frequency: 50/60 Hz

Gas Supply

Connection: 0.25 in (4 mm) push-to-connect fitting
Pressure: 30 PSI
Composition: Carbon dioxide (CO₂) at > 99% purity

User Interface

24 in IPI 10-point multi-touch screen
RGB LED status indicator

Connection

Ethernet: 1x GigE
Wireless: WiFi 802.11ac + Bluetooth 4.0
USB: 2x USB 3.0

Performance Specifications

Consumables

Up to 8 disposable IsoCode® chips per run with barcode tracking

Reagents

Disposable single cartridge

Cell Counts

> 1,250 isolated cells per chip
> 10,000 isolated cells per run with 8 chips

Throughput

Up to 36 analytes per isolated single cell
Up to 360,000 single-cell, secreted protein data points per run

Hands-On Time

< 3 min per sample (cell preparation time not included)

Run Time

< 24 hours from sample loading to results

On-Board Incubator

Temperature: 37 ± 2°C
CO₂ concentration: 5 ± 1%

Laser Wavelengths

405 nm, 437 nm, 638 nm

Software Solutions

IsoSpeak® data analysis software

Prototype unit shown.

For research use only.

Not for use in diagnostic procedures.

Contact us

info@isoplexis.com
203-500-9350

Visit us at isoplexis.com
for more information.

