

A large, central, circular microscopic image of a cell, showing a nucleus and other internal structures, is the focal point of the slide. It is surrounded by a grid pattern and other smaller, semi-transparent cell images in the background.

END-TO-END SINGLE-CELL SEQUENCING SOLUTIONS

Service & Technology

Who We Are

- Dedicated to contributing to impactful single-cell sequencing studies
- Providing breakthrough technologies and reliable services
- Founded in 2018, based in Germany, China, Singapore and USA
- Passionate team of >600 scientists & bioinformaticians



Our Expertise

Optimized Storage and Preservation

- Unique solutions for storing and preserving fresh tissue and cell transcriptome
- Our experience is based on 2000+ projects
- More than 260,000,000 cells sequenced

Effective Tissue Dissociation

- Optimized processing: from tissue samples to highly viable single cell solutions
- Leave no cell behind



Powerful Data Mining

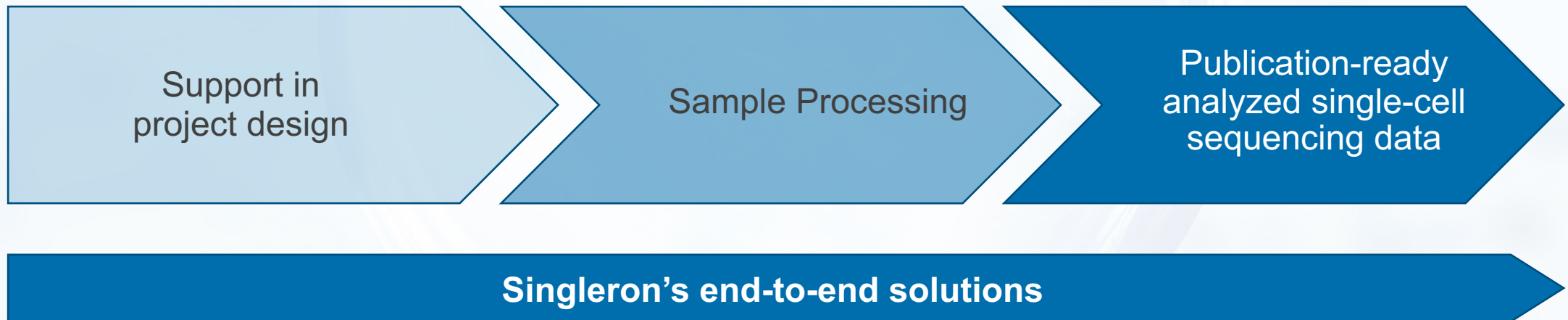
- Self-developed data analysis pipeline and annotation database
- Personalized consultation

Successful with many Sample Types

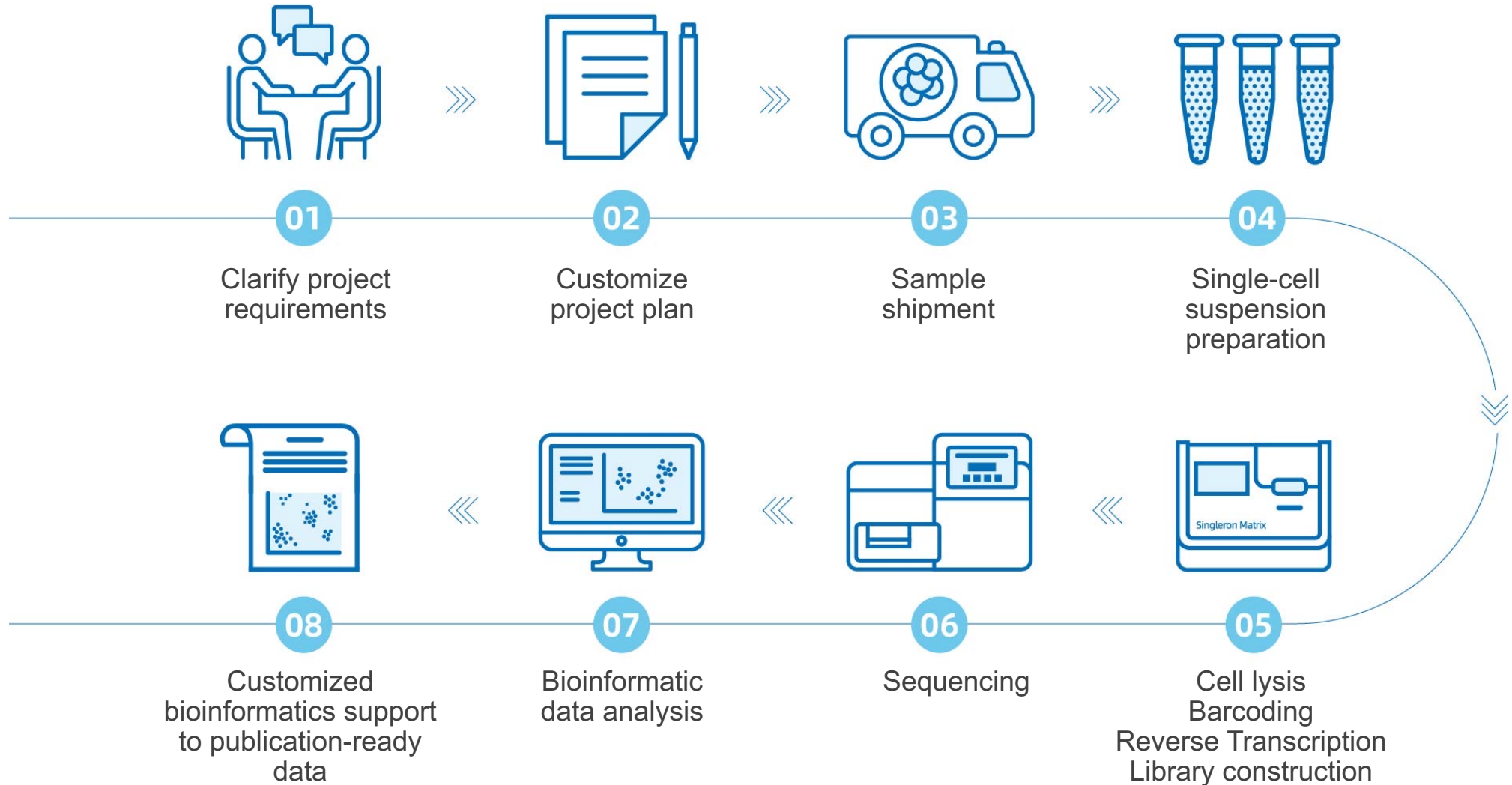
- 450+ tissue types successfully processed including those considered difficult such as bone, skin, brain, and others

One-Stop-Shop Solution

- We offer a complete service
 - Starting from consultation on your study design
 - Support of grant application (including project proposal, applicability of the technology, data mining & reference finding)
 - Finishing with analyzed publication-ready single-cell sequencing data
 - Dedicated project manager for each project to facilitate communication and ensure quality and time management
- Send your collected samples to our service lab and we will take over from there



Service Workflow



Turn-Around Time

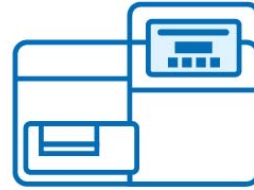
Sample acquisition & shipment to service lab in Cologne



Sample processing & library preparation



Sequencing



Data analysis



Publication-ready data



Sample delivery

1 week

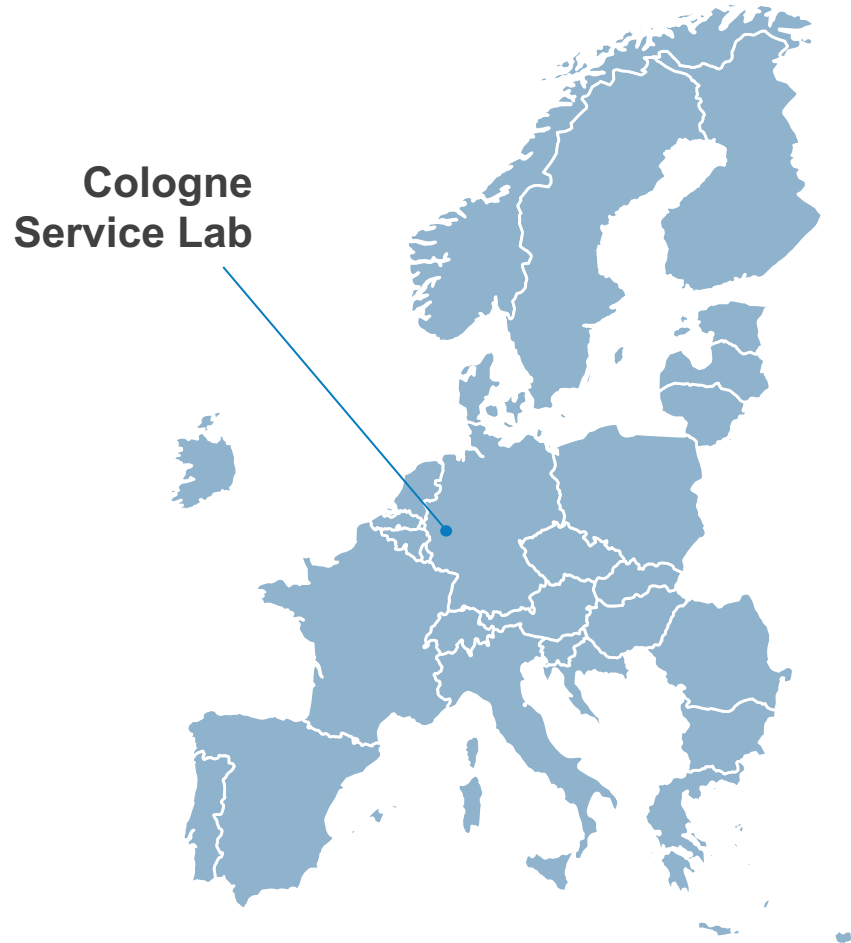
3-4 weeks

2 weeks

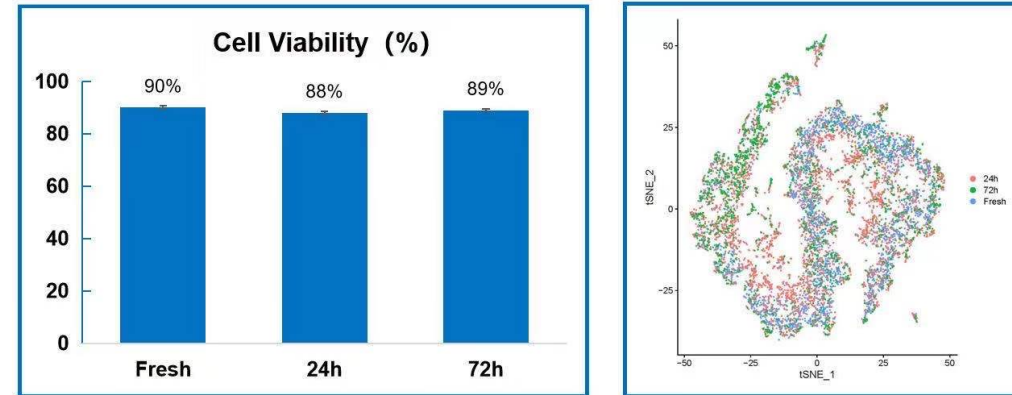
variable

Total 6-8 weeks

Safe and Fast Transportation within Europe



sCellLiVE™



Optimized preservation buffer

- Keeping cells alive for 72h
- Ship at 4°C
- No changes in transcriptome

Applications Covered by our Service Team

- Currently, we offer our full service, including sample processing, single-cell barcoding, library preparation, library sequencing, and bioinformatic data analysis, for the following products:



GEXSCOPE® Single Cell RNA sequencing



GEXSCOPE® Single Nucleus RNA Sequencing



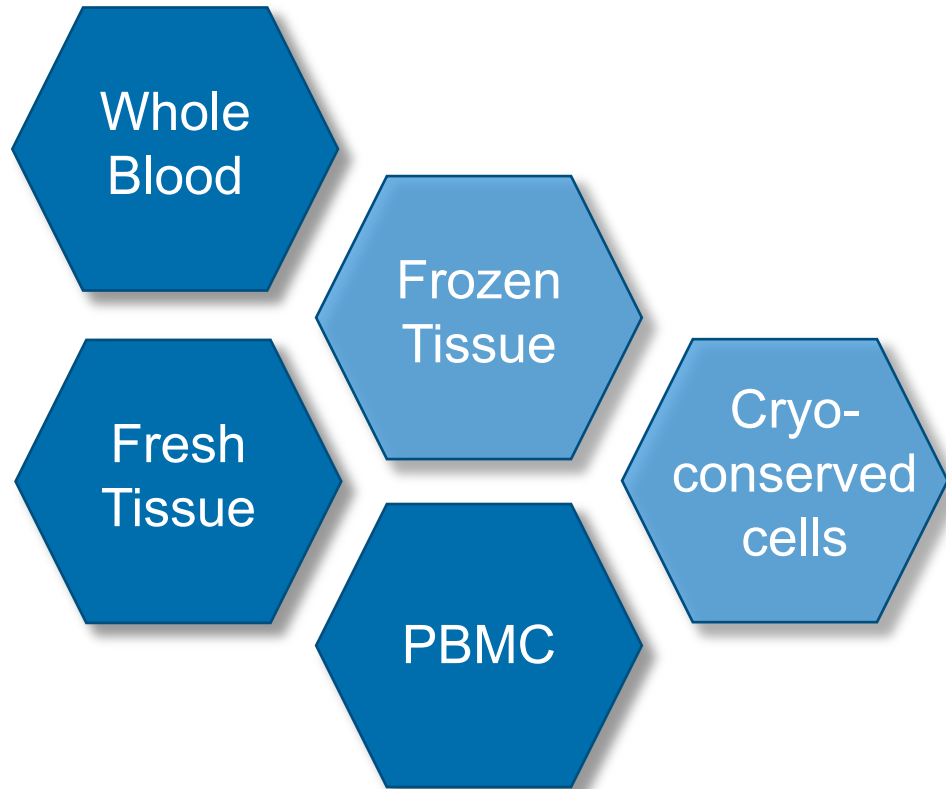
GEXSCOPE® Single Cell Immune TCR/BCR Sequencing



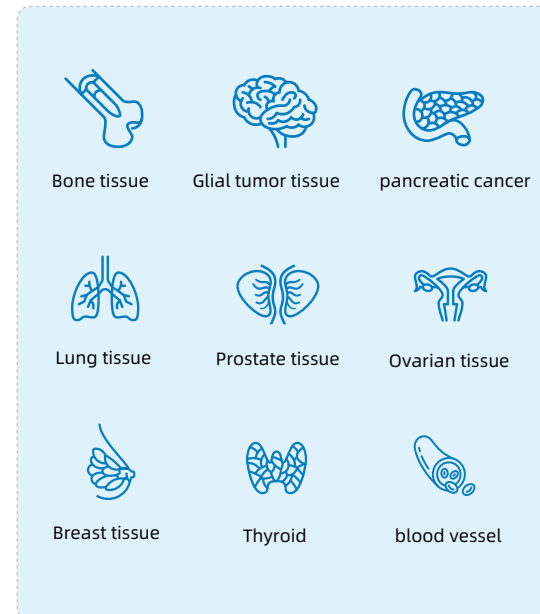
FocuSCOPE® Single Cell Targeted Panel Sequencing (customize-designed or pre-designed panel)



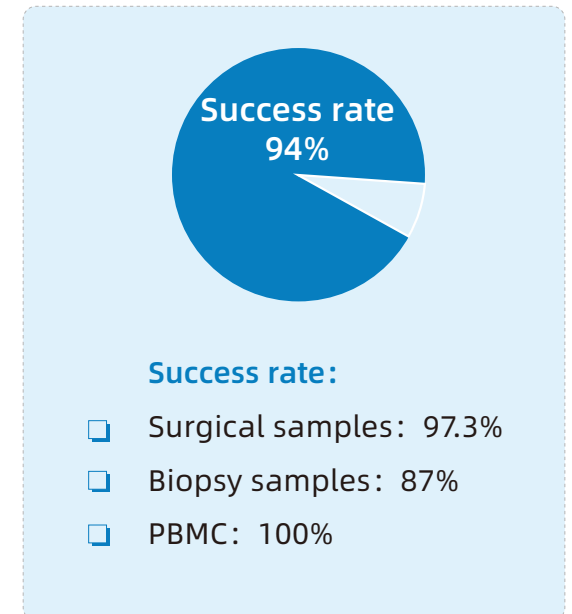
Which Sample Types can be Analyzed?



450+ sample types



94% success rate



- Please consult with Singleron before sample acquisition to ensure good practice for optimal sample collection according to the sample and tissue types you are interested in.

Instruments for High Quality Single Cell Data



Python[®]

Automated Tissue Dissociation

- Process up to 8 samples at a time
- Suitable for low sample input (10 mg - 500 mg)
- Single-cell suspension with high viability
- Finish tissue dissociation in 15 min
- Obtain a single-cell suspension ready-to-use for library construction



Singleron Matrix[®]

Automated Single Cell Capture,
Barcoding and Reverse Transcription

- Process up to 2 samples at a time
- Capture 500-60,000 cells
- Finished within 40 min
- Reduce batch effects

Why Choose Singleron?

Singleron offers

- An end-to-end solution with our One-Stop Shop to support your project during every step
- An optimized solution for safe and fast sample transportation, since high quality of sample input is crucial for high quality data output
- Competitive pricing: more samples analyzed with the same budget

Choose Singleron and

- Refine your research with single-cell sequencing methods to make it more impactful
- Take advantage of our expertise and avoid tedious and long establishing and optimizing of the workflow
- Receive bioinformatics support to obtain publication-ready data



Customer Support

- ❑ Expert consultation on your research approach and study design
- ❑ Immediate processing of your samples to ensure high quality
- ❑ Dedicated project manager for each project
 - Sample Quality Report within 48h after sample delivery
 - Library Quality Report
- ❑ Bioinformatic consultation on your single-cell sequencing data with our specialists
- ❑ Fast response to your questions within 24h



What our customers say

"RNA is very sensitive to degradation, and cells can go into apoptosis during processing, making them no longer representative. The ability to preserve cells for up to three days addresses these quality issues and allows sample collection away from the processing laboratory. It also provides a chance to justify using single-cell analysis for diagnosis. With these three extra days, we can at least do some histological analysis."

-Dr. Margarete Odenthal, Professor at the University Hospital Cologne

When we started with our single-cell RNAseq study of osteosarcoma, we encountered a challenge immediately after acquiring the tumor samples: it was nearly impossible to be dissociated to highly viable single cell suspension that is required for single cell sequencing, even with multiple attempts using in-house and commercial kits. Following suggestions from a colleague, we used Singleron sCellLiVE™ Tissue Dissociation Solution which could beautifully dissociate osteosarcoma samples with a straightforward protocol. This made it possible for us to move forward successfully with our project which resulted in an osteosarcoma single-cell atlas showing cellular heterogeneity and potential therapeutic targets and a publication in Nature Communications.

-Dr. Haiyan Hu, Chief Physician, Oncology Department, Shanghai Jiao Tong University, The Sixth People's Hospital Shanghai, China

Interested?

- Get a free consultation on your project with one of our single cell specialists
- Based on your research interest and scientific questions we can advise you on your study design, suitable technologies and answer any questions that you have
- Contact us

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Read More

www.singleron.bio

Singleron

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