

Microscopic Single Cell Isolation

Single Cells in Tissue - MMI CellCut

Clear-cut laser microdissection Excise Cells with sub-micron precision

You want meaningful data from a specific cells? You want to precisely cut cell clusters, single cells or subcellular compartments from tissue preparations?

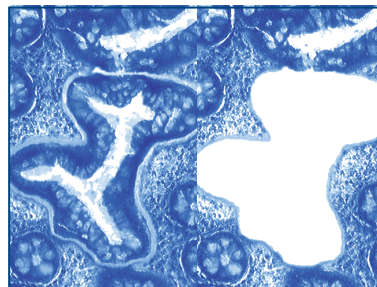
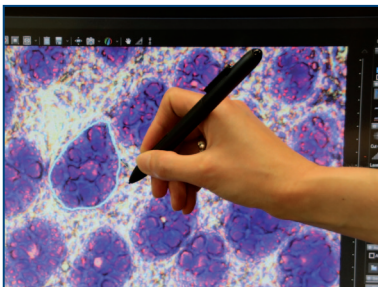
The MMI CellCut facilitates precise and contamination-free dissection of various types of tissues in a fully auditable and automatically documented workflow:

1. Select your cells – any size and flexible shapes
2. Excise your cells – sub-micron precision by lowest cutting width
3. Collect your cells – visual sample inspection after cutting

MMI CellCut: flexible - precise - easy



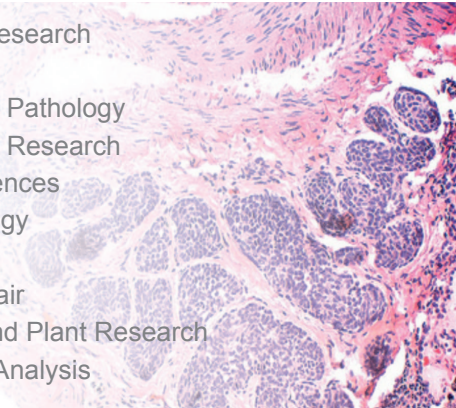
- Precise cutting of various tissue types and even living cells using patented technology
- Flexible and quick sample selection, inspection and precise positioning of cut cells by unique and fully auditable *Predefined Target Positioning (PTP)* feature
- Contamination-free and gentle sample capture with 8 different types of MMI collection tubes and MMI MultiCap strips
- Fully compatible with downstream analysis employing unstained samples and low-damage laser



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Applications

- Cancer Research
- Oncology
- Molecular Pathology
- Stem Cell Research
- Neurosciences
- Immunology
- Virology
- DNA Repair
- Botany and Plant Research
- Forensic Analysis



The MMI CellCut can be applied in various different research projects:

- when the **separate analysis of specific subsets** of your sample is crucial to obtain relevant and significant data
- when the **precise and contamination-free isolation** of cells from tissue is required

Customer Testimonial

"We appreciate the resistant MMI product quality, the professional consulting, and the competent and quick service. MMI instruments are an important basis for our in-situ analysis in cellular tissue. Laser microdissection followed by gene expression analysis is complementary for further routine methods like conventional optical microscopy (fluorescence), in-situ hybridization, and immunohistochemistry."



Dr. med. Danny D. Jonigk
Pathological Institute, Medical School Hannover,
Hannover, Germany

Contact us

You would like to know more about our solutions and products?

Feel free to contact us. We are happy to discuss your applications and projects!



About us

Molecular Machines & Industries (MMI) - your partner providing unique competence in microscopic single cell isolation. We specialize in

- Capillary-based selective isolation of single cells (CellEctor)
- Clear-cut laser microdissection to isolate cells in tissue (CellCut)
- Optical tweezers to quantify minimal biological forces (CellManipulator)

We understand that your lab equipment needs to meet the particular demands of your individual research projects in pathology, oncology, forensics, - in any project where you do not want to average out meaningful data, but focus on single cells.

Based in Eching near Munich, MMI has more than 25 years experience, representatives in over 65 countries and has established a broad instruments base all over the world.

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Microscopic Single Cell Isolation

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