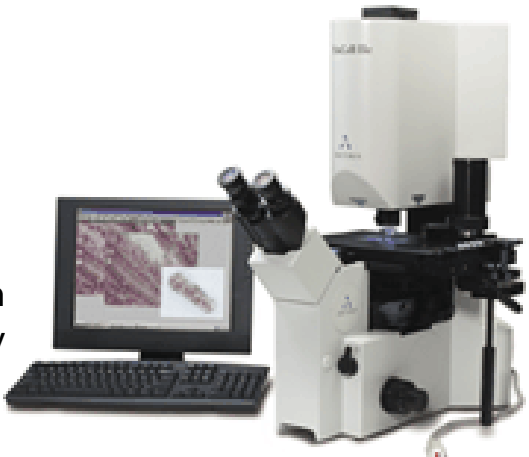


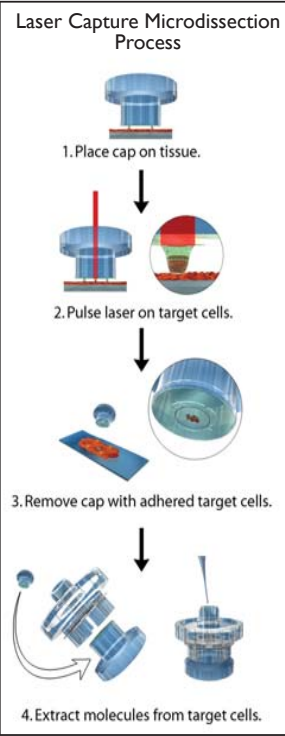
# PixCell® Iie Laser Capture Microdissection System

Laser Capture Microdissection (LCM) enables investigators to dissect target cells from both paraffin-embedded and frozen tissue sections. Color camera provides selections of specifically stained, immunolabeled or fusion-protein containing cells.

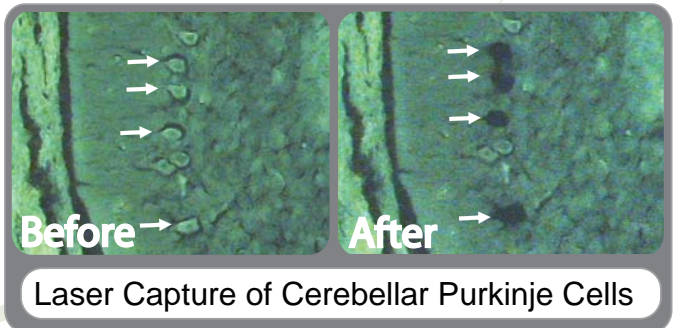
This technology dramatically increases the sensitivity and accuracy of molecular assays by starting with samples of homogeneous cell types and multi-cellular structures isolated from whole tissue or cytology samples.



PixCell Iie Laser Capture Microdissection System



Specifically, LCM utilizes a low-power infrared laser to melt a special thermoplastic film over the cells of interest. The PixCell® LCM instrument directs the laser through the cap to melt the film onto the cells of interest. When you lift the cap, the selected cells remain attached and are captured for further analysis. The laser diameter can be adjusted from 7.5 to 30µm so that individual cells or a cluster of cells can be selected.



**Some methods employed with LCM include:**

- cDNA microarrays & libraries
- mRNA profiles
- Analysis of DNA such as PCR
- Real-time PCR
- Protein-expression profiles by SDS-PAGE & 2D-PAGE
- Mass spectrometric sequencing
- Peptide mass fingerprinting
- In-gel zymography
- Western blot

Contact Kathy Walters at [katherine-walters@uiowa.edu](mailto:katherine-walters@uiowa.edu) or at 319-335-8142 for more information.