Leica Laser Microdissection Application Note

Live Cell Cutting
Isolation of Cells Infected with HCM Viruses

Specimen
Human foreskin fibroblasts, infected with GFP-labeled HCMV (Human Cytomegalovirus)

Cell Culture
Cell culture was infected with the supernatant of the mixture of wild-type non GFP-labelled HCMV and mutant HCMV labelled with GFP and incubated in the membrane Petri dish. On the second day, fibroblasts infected with mutant HCMV (GFP-labelled) were dissected using Leica LMD laser microdissection system with LCC software module. 20x objective and I3 filter cube were used.
LIVE CELL CUTTING

**Isolation/Amplification:**
Reculturing of isolated cells with fresh fibroblasts.

**Analysis:**
Fluorescence microscopy; reculturing after selection by LMD was successful.

**Target:**
Selection of a newly generated green fluorescent HCMV mutant.

Microdissected cells were re-cultured with fresh fibroblasts. The image shows newly generated GFP-labelled HCMV mutant.

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