Leica Laser Microdissection
Application Note

Laser Microdissection
Plant Root Meristem
Use of Laser Microdissection to Isolate Plant Cells: Keni Jiang, Boudewijn Kruijtzer, and Lewis Feldman, Department of Plant and Microbial Biology, 111 Koshland Hall, University of California, Berkeley, CA 94720.

References:
Sanders, P. M., Bui, A. Q., Le, B. H. and Goldberg, R. B., Differentiation and degeneration of cells that play a major role in tobacco anther dehiscence, Sexual Plant Reproduction, Volume 17, 219 - 241, (2005)

Inada, N. and Wildermuth, M. C., Novel tissue preparation method and cell-specific marker for laser microdissection of Arabidopsis mature leaf, Planta, 2004

Direct viewing of cells recovered in PCR cap, 20x objective
Laser Microdissection of different maize root regions using 20x objective.

Quiescent Center  | Columella  | Lateral Root Cap  | Proximal Meristem

Microdissected specimens were subjected to quantitative real-time PCR. The results of gene expression levels were compared to results obtained by conventional microarray and quantitative real-time PCR experiments.

Data Comparison, Plant Microdissection

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