

Materials List for:

# Use of an Optical Trap for Study of Host-Pathogen Interactions for Dynamic Live Cell Imaging

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URL: <https://www.jove.com/video/3123>

DOI: [doi:10.3791/3123](https://doi.org/10.3791/3123)

## Materials

| Name                                  | Company                       | Catalog Number       | Comments  |
|---------------------------------------|-------------------------------|----------------------|---|
| <i>A. fumigatus</i>                   |                               |                      | Albino strain, B-5233/RGD12-8, gift from K.J. Kwon-Chung, NIH   |
| <i>C. albicans</i>                    |                               |                      | SSY50-B mutant, gift from Eleftherios Mylonakis, MGH; SC5314 strain, gift from Gerald Fink, Whitehead Institute |
| Alexa Fluor 488                       | Invitrogen                    | A20000               |   |
| Alexa Fluor 647                       | Invitrogen                    | A20006               |   |
| dimethylformamide                     | Sigma-Aldrich                 | D4551                |   |
| Fresh blood                           |                               |                      | Gift from R.J.W. Heath, MGH, HMS  |
| Nikon inverted microscope             | Nikon Instruments             |                      | Model Ti-E  |
| Trapping laser, ChromaLase            | Blue Sky Research             | CLAS-106-STF02-02    |   |
| Fluorescence excitation laser         | Coherent Inc.                 |                      | Model Innova 70C  |
| Breadboards for trapping components   | Thorlabs Inc.                 | MB1224, MB1218       |   |
| Optical air table                     | Technical Manufacturing Corp. |                      |   |
| Electronic shutter with pedal control | Uniblitz                      |                      | Purchased from Vincent Associates, Rochester, NY  |
| Singlemode optical fiber              | Oz Optics                     | PMJ-3S3S-1064-6      |   |
| Fiber positioner                      | Thorlabs Inc.                 | PAF-X-5-C            |   |
| Fiber collimator                      | Oz Optics                     | HPUCO-23-1064-P-25AC |   |
| Lenses for telescope                  | Thorlabs Inc.                 | AC254-150-B          | Focal length of 150 mm  |
| Translation stages (x, y, z)          | Newport Corp.                 | M-461-XYZ            |   |
| IR dichroic mirror                    | Chroma Technology Corp.       | ET750-sp-2p8         |   |
| Objective lens (100X)                 | Nikon Instruments             |                      | NA = 1.49, oil immersion, TIRF objective  |
| Confocal head                         | Yokogawa                      | CSU-XI               |   |
| Polarizer                             | Nikon Instruments             | MEN51941             |   |
| Wollaston prism                       | Nikon Instruments             | MBH76190             |   |
| EM-CCD camera                         | Hamamatsu Corp.               | C9100-13             |   |
| CCD camera (ORCA ER)                  | Hamamatsu Corp.               | C4742-80-12AG        |   |
| Filter wheel                          | Ludl                          | 99A353               |   |
| Filter wheel                          | Sutter Instrument Co.         | LB10-NWE             |   |

|   |                                |            |                      |
|---|--------------------------------|------------|----------------------|
| Chambered coverglass                      | Lab-Tek                        | 155409     |                      |
| Dynabeads                                 | Invitrogen                     | 111-51D    | Coated with anti-CD3 |
| Dulbecco's modified Eagle's medium (DMEM) | Invitrogen                     | 10313      |                      |
| Penicillin/streptomycin                   | Invitrogen                     | 15140-122  |                      |
| L-glutamine                               | Invitrogen                     | 25030-081  |                      |
| Fetal Bovine Serum (HyClone)              | Thermo Fisher Scientific, Inc. | SH30071.03 |                      |