**Materials List for:**

# Time-lapse Fluorescence Imaging of Arabidopsis Root Growth with Rapid Manipulation of The Root Environment Using The RootChip

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## Materials

| Name | Company | Catalog Number | Comments |
|---|---|---|---|
| Chip carrier, software and other information. | Carnegie Institution - DPB | CAD and CNC files for carrier fabrication, controller software and further information are available for download from the website http://dpb.carnegiescience.edu/technology/rootchip Carriers can also be ordered from this website. | |
| RootChip | Stanford Foundry | Mask designs and fabrication protocols are available upon request. Ready-to-use RootChips can be ordered from http://www.stanford.edu/group/foundry/ | |
| Chip controller | Home-built | The automated valve controller system was originally developed by Rafael Gómez-Sjöberg , Lawrence Berkeley National Lab. A detailed instruction how to build your own actuated valve controller can be found at https://sites.google.com/a/lbl.gov/microfluidics-lab/valve-controllers | |