

Materials List for:

# Studying Diabetes Through the Eyes of a Fish: Microdissection, Visualization, and Analysis of the Adult tg(fli:EGFP) Zebrafish Retinal Vasculature

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URL: <https://www.jove.com/video/56674>

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## Materials

| Name                                                           | Company                     | Catalog Number | Comments         |
|----------------------------------------------------------------|-----------------------------|----------------|------------------|
| NaOH                                                           | Roth                        | 6771.3         |                  |
| KCl                                                            | Merck                       | 1.04936        |                  |
| CaCl <sub>2</sub> ·6H <sub>2</sub> O                           | Roth                        | 5239.2         |                  |
| MgSO <sub>4</sub> ·7H <sub>2</sub> O                           | Merck                       | 1.05886.0500   |                  |
| Paraformaldehyd                                                | Roth                        | 0335.3         |                  |
| Sodium dihydrogen phosphate                                    | Roth                        | 2370.1         |                  |
| Ethyl 3-aminobenzoate methanesulfonate salt (MS-222, Tricaine) | Sigma                       | A5040          |                  |
| PBS                                                            | Roth                        | 9143.1         |                  |
| Agarose                                                        | Roth                        | 2267.3         |                  |
| Fluoromount-G                                                  | Thermo-Fischer              | 00-4958-02     |                  |
| Petri dish                                                     | Greiner Bio one             | 633180         |                  |
| Six-well plate                                                 | StarLab                     | CC7682-7506    |                  |
| Needle                                                         | MSG Praxisbedarf            | BD 300900      |                  |
| Micro Tweezer                                                  | World Precision Instruments | 14095          |                  |
| Microdissection Scissor                                        | World Precision Instruments | 501778         |                  |
| Glass slide                                                    | Carl Roth                   | H872.1         |                  |
| Coverslip 22mmx22mm                                            | neoLab                      | 103512222      |                  |
| Scalpel                                                        | MSG Praxisbedarf            | FEA111         |                  |
| Epi-Illumination                                               | Leica                       | 10446389       |                  |
| Fluorescence stereomicroscope MZ10 F                           | Leica                       | NA             |                  |
| Confocal laser-scanning microscope SP5 DS                      | Leica                       | NA             |                  |
| Stereomicroscope M80                                           | Leica                       | NA             |                  |
| Zebrafish line: Tg(fli:EGFP), ABTL wildtype                    | NA                          | NA             | see Reference 15 |
| Mayer's hematoxylin                                            | Dr. K. Hollborn & Söhne     | 0088663        |                  |
| 0.5% eosin                                                     | Dr. K. Hollborn & Söhne     | NA             |                  |
| 99,9% ethanol                                                  | Roth                        | 9065.2         |                  |
| Paraffin                                                       | Merck                       | 1,071,501,000  |                  |
| Xylol                                                          | Roth                        | 4436.2         |                  |
| Acetone                                                        | Emsure                      | 606-001-00-8   |                  |

|                   |       |    |  |
|-------------------|-------|----|--|
| Microtome RM 2165 | Leica | NA |  |
|-------------------|-------|----|--|