

Materials List for:

An Automated Method to Determine the Performance of *Drosophila* in Response to Temperature Changes in Space and Time

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Materials

| Name | Company | Catalog Number | Comments |
|---------------------------------|------------------------------|-------------------|--|
| Arduino Due | Arduino | A000062 | Software RUG |
| Electronics Board | Ruijsink Dynamic Engineering | FF-Main-02-2014 | |
| Power supply Boost | XP-Power 48. V 65 W | ECS65US48 | Set to 53 Volt |
| Power supply Tile Heating | XP-Power 15. V 80 W | VFT80US15 | |
| Power supply Cooling | XP-Power 15. V 130 W | ECS130U515 | |
| Peltier elements | Marlow Industries | RC12-4 | 2 Elements, controlled DC feed |
| Heat sink | Fisher Technik | LA 9/150-230V | Decoupled for vibration |
| Temperature sensors | Measurement Specialties | MCD_10K3MCD1 | Micro Thermistor Probe |
| Copper block/tiles | Ruijsink Dynamic Engineering | FF-CB-01-2014 | |
| Auminum ring | Ruijsink Dynamic Engineering | FF-RoF-02-2015 | |
| Tesa 4104 white tape 25 x 66 mm | RS Components | 111-2300 | White conductive tape |
| Red LEDs | Lucky Ligt | ll-583vc2c-v1-4da | Wavelength between 625 nm, 20 mA and 6 V |
| Warm white LED strip | Ledstripkoning | HQ-3528-SMD | 60 LEDs per meter |
| Switch Power Supply | Generic | T-36-12 | |
| Logitech c920 | Logitech Europe S.A | PN960-001055 | |
| QuickTime Player | Apple Computer | | Recording program |
| Tracking analysis software | R | | Packages: pacman |
| Tracking analysis software | MATLAB | | |
| Thermal Imaging | FLIR T400sc | | |
| Graphs and Statistics Software | Graph Pad Prism | | |
| Sigmacote | Sigma-Aldrich | SL2-100ML | Siliconising agent |
| Fly rearing bottles | Flystuff | 32-130 | 6oz Drosophila stock bottle |
| Flypad | Flystuff | 59-114 | |
| Fly rearing vials | Dominique Dutscher | 789008 | Drosophila tubes narrow 25x95 mm |
| Incubator | Sanyo | MIR-154 | |
| Magnetic hot plate | Heidolph | 505-20000-00 | MR Hei-Standard |
| Agar | Caldic Ingredients B.V. | 010001.26.0 | |
| Glucose | Gezond&wel | 1019155 | Dextrose/Druivensuiker |
| Sucrose | Van Gilse | | Granulated sugar |

| | | | |
|------------------|------------|---------|------|
| Cornmeal | Flystuff | 62-100 | |
| Wheat germ | Gezond&wel | 1017683 | |
| Soy flour | Flystuff | 62-115 | |
| Molasses | Flystuff | 62-117 | |
| Active dry yeast | Red Star | | |
| Tegosept | Flystuff | 20-258 | 100% |