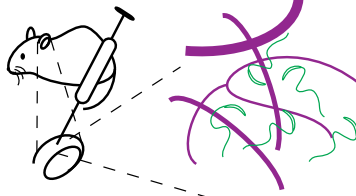
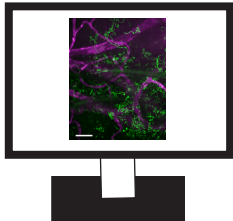


|           |                                                                                   |                                                                                   |                                                                                     |                                                                                                                             |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Process   |  |  |  |                                          |
|           | Antibody injection                                                                | Salivary gland dissection<br>Sporozoite isolation                                 | Sporozoite inoculation<br>Intravital imaging                                        | Analysis                                                                                                                    |
| Time*     | 15 minutes                                                                        | 30 minutes                                                                        | 1 hour                                                                              | Manual analysis of<br>percent motile and<br>blood vessel entry<br>: 2-4 hours<br><br>ICY automated analysis<br>: 30 minutes |
| Materials | C57Bl6 mice<br>(\$30/mouse)                                                       | Plasmodium infected<br>mosquitoes**                                               | Spinning confocal microscope<br>(\$29/hour)                                         | Image J and ICY<br>free software                                                                                            |

\*Time estimates are based on the analysis of one biological replicate for a monoclonal antibody and its relevant control.

\*\*Plasmodium-infected mosquitoes can be obtained from a few laboratories and cost varies.

**Table EV1.** Steps involved in *in vivo* motility analysis including time and cost estimates.