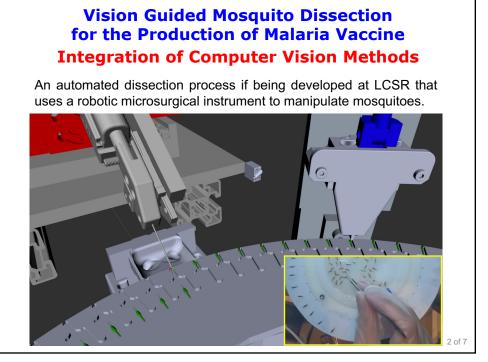
Vision Guided Mosquito Dissection for the Production of Malaria Vaccine Integration of Computer Vision Methods

There are over 200 million cases of malaria every year globally that results in more than 400,000 deaths. The disease is caused by Malpighian tubule a parasite that incubates Foregut/anterio dgut junction inside the salivary glands of mosquitoes. The extraction of these sporozoites from mosquito salivary glands enables the manufacturing of one promising malaria vaccine.

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The autonomy of the robotic system hinges on sophisticated computer vision methods to detect mosquitoes and their body parts, and to provide quality control during the process.

