

# Superior Auto-Identification of Trypanosome Parasites by Using a Hybrid Deep-Learning Model

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jove.com/video/65557

## Materials

Name	Company	Catalog Number	Comments
Darknet19, Darknet53 and Densenet201	Gao Huang, Z. L., Laurens van der Maaten. Densely Connected Convolutional Networks. arXiv:1608.06993 [cs.CV]. (2016)	<a href="https://github.com/liuzhuang13/DenseNet">https://github.com/liuzhuang13/DenseNet</a>	Deep convolutional neural network model that can function to classification <b>Generic name:</b> YOLO model/detection model?
Olympus CX31 Model CX31RRBSFA	Olympus, Tokyo, Japan	SN 4G42178	A light microscope
Olympus DP21-SAL U-TV0.5XC-3	Olympus, Tokyo, Japan	SN 3D03838	A digital camera <b>Generic name:</b> Classification models/ densely CNNs
Window 10	Microsoft	Window 10	Operation system in computers
YOLO v4-tiny	Naing, K. M. et al. Automatic recognition of parasitic products in stool examination using object detection approach. <i>PeerJ Comput Sci.</i> 8 e1065, (2022).	<a href="https://git.cira-lab.com/users/sign_in">https://git.cira-lab.com/users/sign_in</a>	Deep convolutional neural network model that can function to both localization and also classification
		<a href="https://git.cira-lab.com/users/sign_in">https://git.cira-lab.com/users/sign_in</a>	