

Visualizing Early Infection Sites of Rice Blast Disease (*Magnaporthe oryzae*) on Barley (*Hordeum vulgare*) Using a Basic Microscope and a Smartphone

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jove.com/video/64794

Materials

Name	Company	Catalog Number	Comments
Acetic acid	Sigma-Aldrich	A6283	
Cell phone	Google	Pixel 4A	Any smartphone with a rear facing camera that can be mounted in an a holder will suffice.
Cell phone Microscope adapter	Vankey	B01788LT3S	https://www.amazon.com/Vankey-Cellphone-Telescope-Binocular-Microscope/dp/B01788LT3S/ref=sr_1_2_sspa?keywords=vankey+cellphone+telescope+adapter+mount&qid=1662568182&prefix=vankey+%2Caps%2C63&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUFKNkIBRjIjCREJaMEcmZW5jcnlwdGVkSWQ9QTA2MDMxNjhBRFYxQTMzNk9EM0YmZW5jcnlwdGVkQWRJZD1BMQxMzAzOTMxNzI1TzE3M1ZGTEImd2lkZ2V0TmFtZT1zcF9hdGYmYWVW0aW9uPWVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVi
Glycerol	Sigma-Aldrich	G5516	
Microscope	AmScope	FM690TC	40x–2500x Trinocular upright epi-fluorescence microscope
Oatmeal old fashioned rolled oats	Quaker	N/A	https://www.amazon.com/Quaker-Oats-Old-Fashioned-Pack/dp/B00IIVBNK4/ref=asc_df_B00IIVBNK4/?tag=hyprod-20&linkCode=df0&hvadid=312253390021&hvpos=&hvnetw=g&hvrnd=982126277046839544&hvpon=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocint=&hvlocphy=9007494&hvtargid=pla-568492637928&psc=1
ProMix BX	ProMix	1038500RG	

Rectangular coverglass	Corning	CLS2975245	
Slides, microscope	Sigma-Aldrich	S8902	
Stage micrometer	OMAX	A36CALM7	0.1 mm and 0.01 mm Microscope calibration slide
Trypan blue	Sigma-Aldrich	T6146	