

A 3D culture model facilitates mass production of *in vitro* *Plasmodium falciparum* haemolymph-like sporozoites

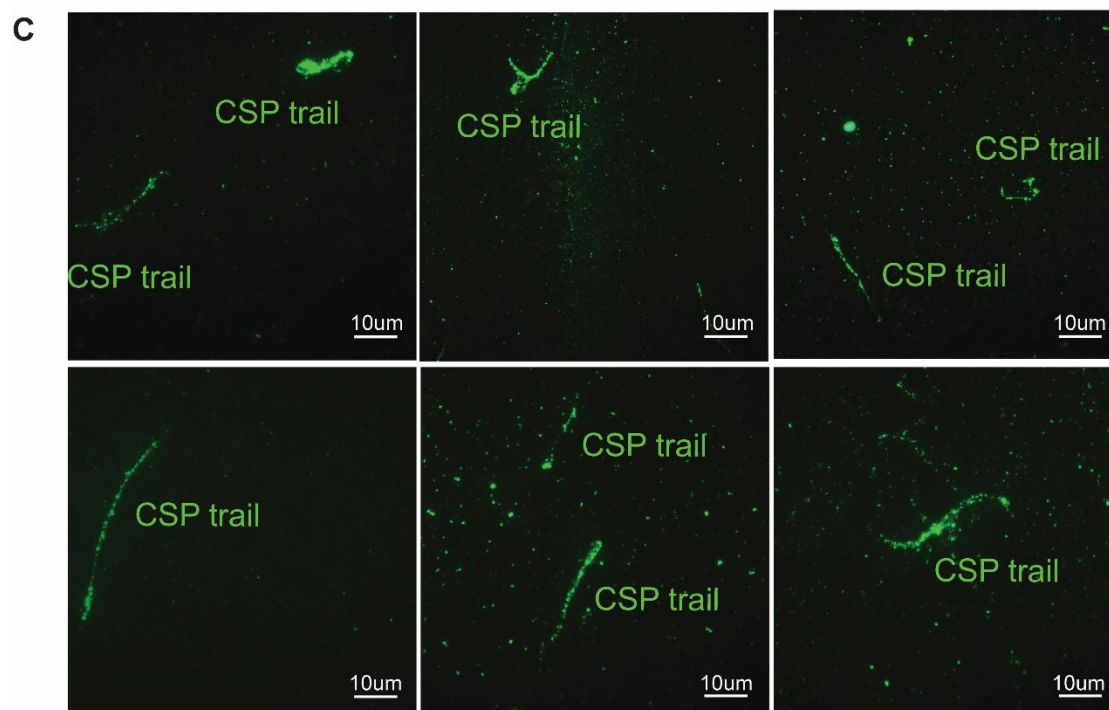
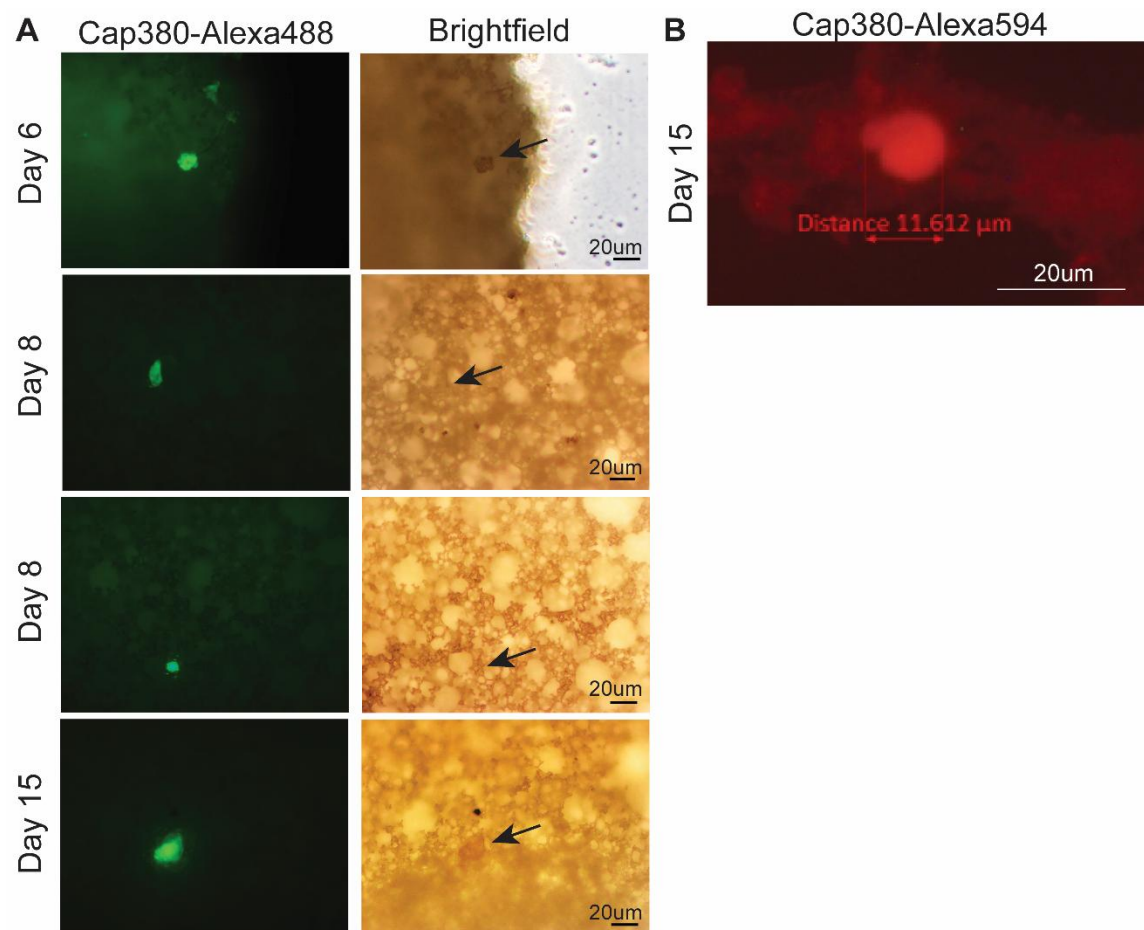
Kiara Hatzakis¹, Zachary MacMillen¹, Payton Kirtley², Maya Aleshnick², Thomas Martinson², Priya Gupta⁴, Kristian E. Swearingen³, Brandon K. Wilder², James W. Davie¹, Marion Avril¹

1. MalarVx, Inc., 1551 Eastlake Ave, E Suite 100, Seattle WA 98102, Seattle WA 98102
2. 505 NW 185th Ave, RM 2224, OHSU West Campus, Beaverton, OR 97006.
3. Institute for Systems Biology, Seattle, WA 98109.
4. Seattle Children's Research Institute, Seattle, WA 98109.

ADDITIONAL FILES

Additional File 1: All datasets relating to the mass spectrometry analysis are available in the PRIDE repository (<https://www.ebi.ac.uk/pride/login>)

Additional File 2: Alvetex Strata for oocyst growth and IVS gliding path. A) IFA of PfNF54 GFP-Luc oocyst embedded in the Alvetex Strata. Strata were permeabilized and oocysts were detected by IFA on days 6, 8, and 15 with anti-Cap380 polyclonal rabbit antibodies with an anti-rabbit Alexa488-conjugated secondary. Field view at x40. B) Strata were permeabilized and oocysts were detected by IFA on day 15 with anti-Cap380 polyclonal rabbit antibodies with an anti-rabbit Alexa594 conjugated secondary. Field view at x100. C) Gliding assay of PfNF54 GFP-Luc IVS showing linear and curved CSP trails on coated slide with monoclonal Pf 2A10 antibodies.



Additional File 3: PfNF54 GFP-Luc exo-erythrocytic stages in HC04 cells. PfNF54 GFP at an early liver stage were visualized live on confluent HC04 on day 0 to day 9 post-infection with IVS. Nuclei are stained with DAPI. Scale bar 10µm as indicated.

