## **Description of Additional Supplementary Files**

Filename: Supplementary Movie 1\_C. neoformans timelapse

Description: Melanization response in hemolymph in response to *C. neoformans*.

Filename: Supplementary Movie 2\_C. neoformans timelapse

Description: Melanization response in hemolymph in response to C. neoformans

Filename: Supplementary Movie 3\_Melanin Ghost vs heat killed

Description: Melanization response in hemolymph in response to heat-killed C. neoformans and

isolated fungal melanins.

Filename: Supplementary Movie 4\_Melanin ghost without hemocytes

Description: Melanization response in hemolymph in response to isolated fungal melanins.

Filename: Supplementary Movie 5\_ Melanin ghost timelapse

Description: Melanization response in hemolymph in response to isolated fungal melanin.

Filename: Supplementary Movie 6\_ Hemocyte-ghost interactions

Description: Timelapse of the interactions between the insect hemocytes and isolated fungal

melanins

Filename: Supplementary Movie 7\_ In situ nodule projection

Description: 3D Rendering of a fungal nodule within G. mellonella using different Z-stacked

microscopy images.

Filename: Supplementary Movie 1 C. neoformans timelapse

Description: Melanization response in hemolymph in response to C. neoformans.

Filename: Supplementary Movie 2\_C. neoformans timelapse

Description: Melanization response in hemolymph in response to C. neoformans.

Filename: Supplementary Movie 3\_Melanin Ghost vs heat killed

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isolated fungal melanins.

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melanins

Filename: Supplementary Movie 7\_ In situ nodule projection

Description: 3D Rendering of a fungal nodule within G. mellonella using different Z-stacked

microscopy images.

Filename: Supplementary Movie 8\_ Melanin Bloom Candida

Description: Melanization response in hemolymph in response to C. albicans yeast and hyphal forms.

Filename: Supplementary Movie 9\_ Candida albicans escape

Description: Examples of C. albicans surviving and growing through immune melanin-encapsulation.

Filename: Supplementary Movie 10\_ Candida auris pseudohyphae.

Description: Melanization response in hemolymph in response to C. auris yeast and pseudohyphal

forms.

Filename: Supplementary Movie 11\_ C. neoformans Anticoagulation Buffer

 $\label{eq:Description: Timelapse of hemocytes and hemolymph interacting with C.\ neoformans\ in\ an$ 

anticoagulation buffer to prevent coagulation and melanization.

Filename: Supplementary Movie 12\_ No fungus timelapse

Description: Timelapse of hemocytes and hemolymph with no fungus or fungal component added.