Optimization of *Aspergillus versicolor* culture and aerosolization in a murine model of inhalational fungal exposure_dataset

Data Dictionary

Field Name	Field Contents
Test article	The fungal species or air only control to which the animal group is exposed
Viable	Aspergillus versicolor conidia that are collected and used directly from the cultured test article.
HIC	Heat inactivated conidia; Conidia of <i>A. versicolor</i> that have been heat inactivated by baking
Colony	Visible mass of fungal cells on solid media, each colony arises from a single original cell in suspension.
Colony count	
Mouse ID	Identification number given to an experimental mouse
Nasal Passage	The number of conidia counted in the nasal passage portion of the airway.
Lung	The number of conidia counted in lung
Conidia	Spore produced by fungi at the end of the hyphae
Desiccation	Drying the test article using a sealed desiccation chamber and dry desiccant.
AOC	Air only control; the negative control group used in muring inhalation studies, mice breathed HEPA filtered air with no fungal article.
A. versicolor, Av	Aspergillus versicolor (Vuillemin) Tiraboschi, ATCC 9577
AGS	Acoustical generating system; the system used to aerosolize the conidia off of the rice, which are then mixed with HEPA filtered air and inhaled by mice.
Pod	The housing chamber into which mice are placed for the nose-only exposures.
MEA	Malt extract agar
SDS PAGE	Sodium dodecyl sulfate–polyacrylamide gel electrophoresis
PBS	Phosphate buffered saline
LAL	Limulus amoebocyte lysate; the chromogenic assay used to quantify endotoxin
EU	Endotoxin unit
HEPA	High efficiency particulate air filter
LLNA	Local lymph node assay
SI	Stimulation index
DPM	Disintegrations per minute
BAL	Broncho-alveolar lavage
H&E	hematoxylin and eosin
GMS	Grocott's methenamine silver stain
ELISA	Enzyme-linked immunosorbent assay
IgG	Immunoglobulin G; quantified as total ug/mL of serum

immunoglobulin R; quantified as total ug/mL of serum DMEM Dulbecco's Modified Eagles Medium CD16/32 Purified anti-mouse CD16/322 antibody, blocks non-specific binding on immune cells by staining antibodies BAL_Lymphocytes Cell population including T and B cells, gated in flow cytometry on forward and side scatter, in BAL samples. Quantified as percent of single cells. BAL_Neutrophils ARA_Neutrophils BAL_Eosinophils Granulocytes involved in anti-fungal responses, in BAL samples. Quantified as percent of single cells. Cell population including T and B cells, gated in flow cytometry on forward and side scatter, in gate in flow cytometry on forward and side scatter, in gate in flow cytometry on forward and side scatter, in lung tissue samples. Quantified as percent of single cells. Cell population including T and B cells, gated in flow cytometry on forward and side scatter, in lung tissue samples. Quantified as percent of single cells. Cell population including T and B cells, gated in flow cytometry on forward and side scatter, in lung tissue samples. Quantified as percent of single cells. Cung_Alveolar Macrophages Quantified as percent of single cells. Cung_Neutrophils Granulocytes involved in anti-fungal responses, in lung tissue samples. Quantified as percent of single cells. Cung_Eosinophils Granulocytes involved in allergic responses, in lung tissue samples. Quantified as percent of single cells. Sterigmatocystin Mycotoxin produced by Aspergillus versicolor A secondary metabolite produced by Aspergillus versicolor, a precursor to aflatoxin b1; quantified as total nanograms in sample vial. A secondary metabolite produced by Aspergillus versicolor, a precursor to aflatoxin b1; quantified as total nanograms in sample vial. A secondary metabolite produced by Aspergillus versicolor, a precursor to aflatoxin b1; quantified as total nanograms in sample vial. A secondary metabolite produced by Aspergillus versicolor, a precursor to sterigmatocystin and aflotoxin; quantified as total nanograms in sample vial. A se	1.84	
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•	Versiconal Acetate	nanograms in sample vial.

	A secondary metabolite produced by Aspergillus versicolor, a
	precursor in aflatoxin biosynthesis; quantified as total
Versiconol	nanograms in sample vial.
Secondary metabolite	The culture sample from which secondary metabolites are
Sample	quantified. Live or heat inactivated conidia of Aspergillus
	versicolor.
Exposure Number	The iteration of the exposure during the exposure set
1x10^4 Target Dose	Exposure group intended to receive 1x10 ⁴ dose of <i>A</i> .
Group	versicolor, data represents the actual dose of A. versicolor
3x10^4 Target Dose	Exposure group intended to receive 3x10 ⁴ dose of <i>A</i> .
Group	versicolor, data represents the actual dose of A. versicolor
1x10^5 Target Dose	Exposure group intended to receive 1x10^5 dose of A.
Group	versicolor, data represents the actual dose of A. versicolor
3x10^5 Target Dose	Exposure group intended to receive 3x10^5 dose of A.
Group	versicolor; data represents the actual dose of A. versicolor
Week 0 weight	Weight of the mouse before exposures began
Week 1 weight	Weight of the mouse during week 1 of exposures
Week 2 weight	Weight of the mouse during week 2 of exposures
Week 3 weight	Weight of the mouse during week 3 of exposures
Week 4 weight	Weight of the mouse during week 4 of exposures
AGS sample	Sample collected from the acoustical generating system: rice
	control, viable A. versicolor, and HIC A. versicolor
Sterigmatocystin (ng/filter)	Mycotoxin quantified from a filter collected from the AGS,
	denoted as total nanograms per filter.