

Pathogens are all around us, even on tiny ants!

**INVISIBLE**

You can find out what your ants are carrying around by letting them walk on your agar plat. After that, set it aside and let it grow!

Use the space below to keep track of how fast your fungi are growing!

**PATHOGENS**

**Helpful Hints**

Every colony of fungi that has the same physical characteristics from the key on page 1 is considered to be in the same **morphospecies**. If you have 3 colonies that are all morphologically the same, you have 1 morphospecies.

Each separate area of fungal growth is considered a **colony forming unit (CFU)**. If you have 3 different areas of growth that all look the same, you have three CFUs.

Your temperature at site should be the **temperature** of the place where you collected your ants, not the place where your fungi is growing.

If you have only done one plate, your plate number is 1.

Use the same habitat description that you used on page 1 (forest, park, suburban, or urban)

**FINAL DATA CARD**

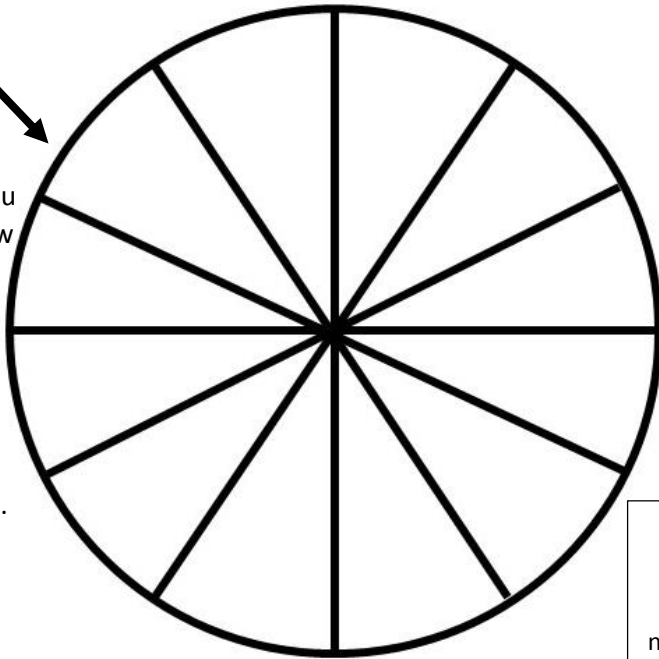
(you will send this info to the scientist)

Investigator Name	
Collection Start Date	
Collection End Date	
Temperature at site (°C)	
GPS Coordinates (Lat, Long)	
Closest Address to collection site	
Habitat Description	
Ant Size, Color, and Petiole #	
# of Morphospecies	
# of colony forming units (CFUs)	
Plate #	

	Colony 1	Colony 2	Colony 3	Colony 4	Colony 5
% change between observation 1 and 2					
% change between observation 2 and 3					
% change between observation 3 and 4					

	Colony 1 Diameter (mm)	Colony 2 Diameter (mm)	Colony 3 Diameter (mm)	Colony 4 Diameter (mm)	Colony 5 Diameter (mm)
Observation 1					
Observation 2					
Observation 3					
Observation 4					

Update your plate drawing here. You can show growth using dotted lines around original colonies.



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Chart your results and Use the key to find out more about your fungi!

**PATHOGENS**

Ant Type \_\_\_\_\_ Habitat (select from below) \_\_\_\_\_

<b>Forest</b> No pavement or manicured plants, native species present	<b>Park</b> 0-30% paved, manicured bushes and grass present with mowing	<b>Suburban</b> 30-60% paved, typical neighborhood setting	<b>Urban</b> >60% paved, most trees surrounded by metal grates or sidewalks
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<b>Shape</b>	    
	Circle Rhizoid Irregular Filamentous Spindle
<b>Margin</b>	    
	Entire Undulate Lobate Curled Filamentous
<b>Elevation</b>	    
	Raised Convex Flat Umbonate Crateriform
<b>Size</b>	   
	Punctiform Small Moderate Large
<b>Texture</b>	Smooth or rough
<b>Appearance</b>	Glistening (shiny) or dull
<b>Pigmentation</b>	Nonpigmented (e.g., cream, tan, white.) Pigmented (e.g., purple, red, yellow)
<b>Optical Property</b>	Opaque, translucent, transparent

	Colony 1	Colony 2	Colony 3	Colony 4	Colony 5
Shape					
Margin					
Elevation					
Size					
Texture					
Appearance					
Pigmentation					
Optical Property					
Fraction of plate covered					
Percentage of plate covered					