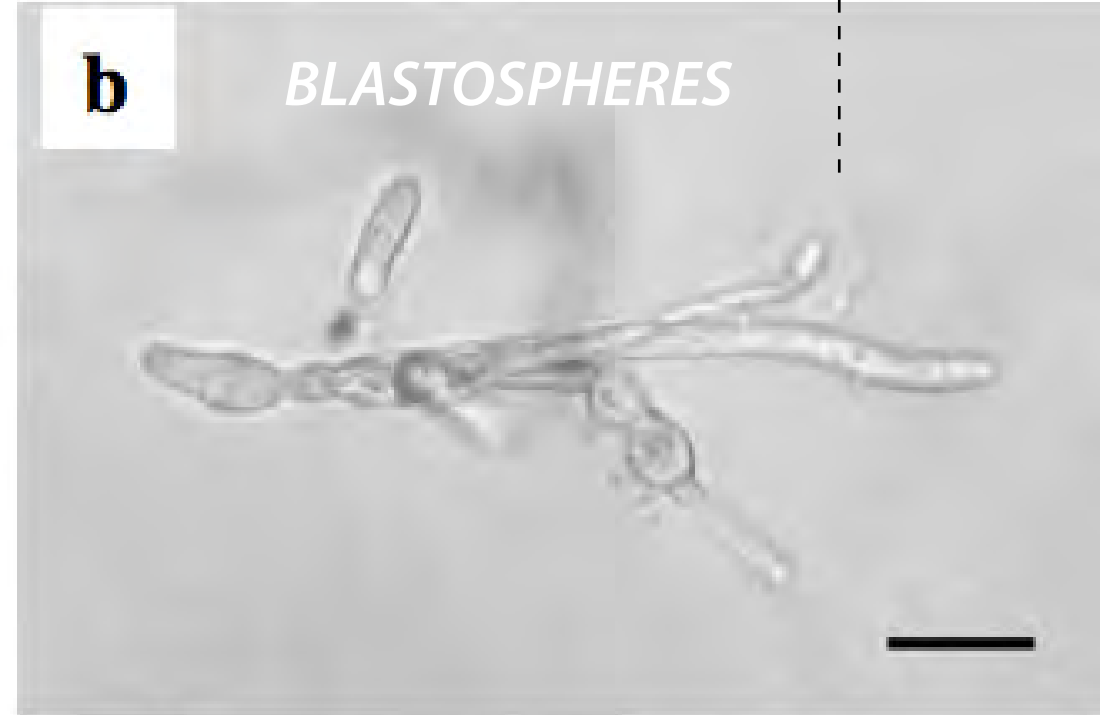


Ophiocordyceps Infected Ant



LIFE CYCLE

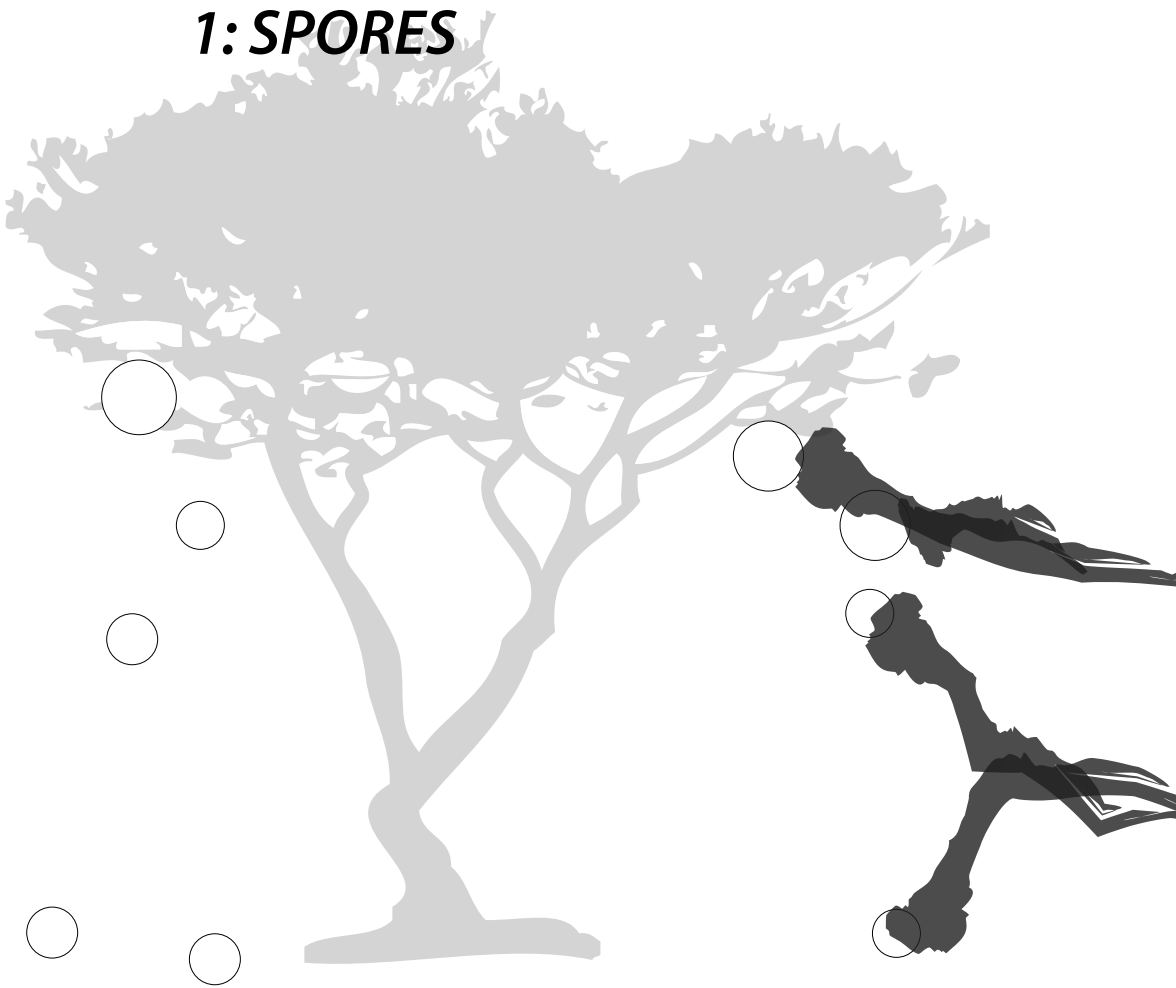
at 28 degrees, shaking increases speed aggregation



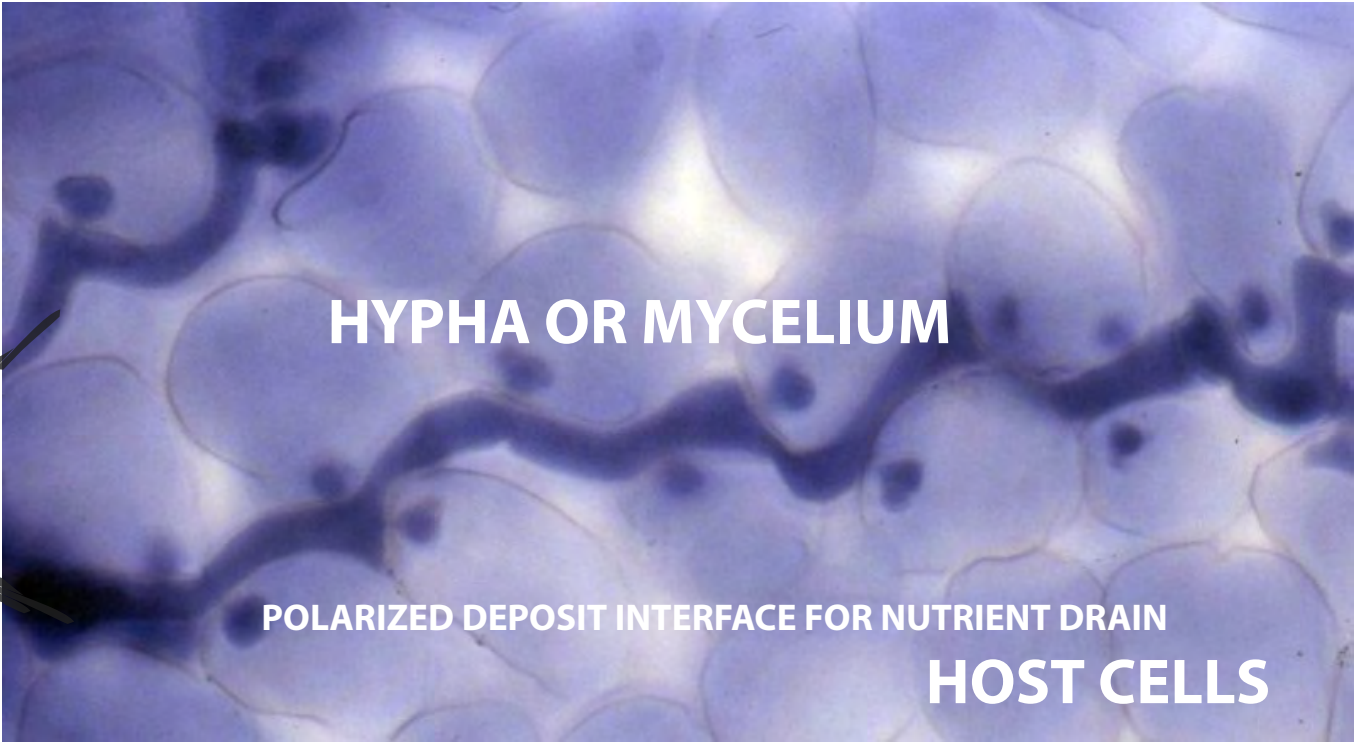
at 28 degrees, shaking stops aggregation

FORMS OVER LIFE CYCLE WITH C.L ANT

1: SPORES



2: BLASTOSPHERES + MYCELIUM GROWTH WITHIN ANT HOST

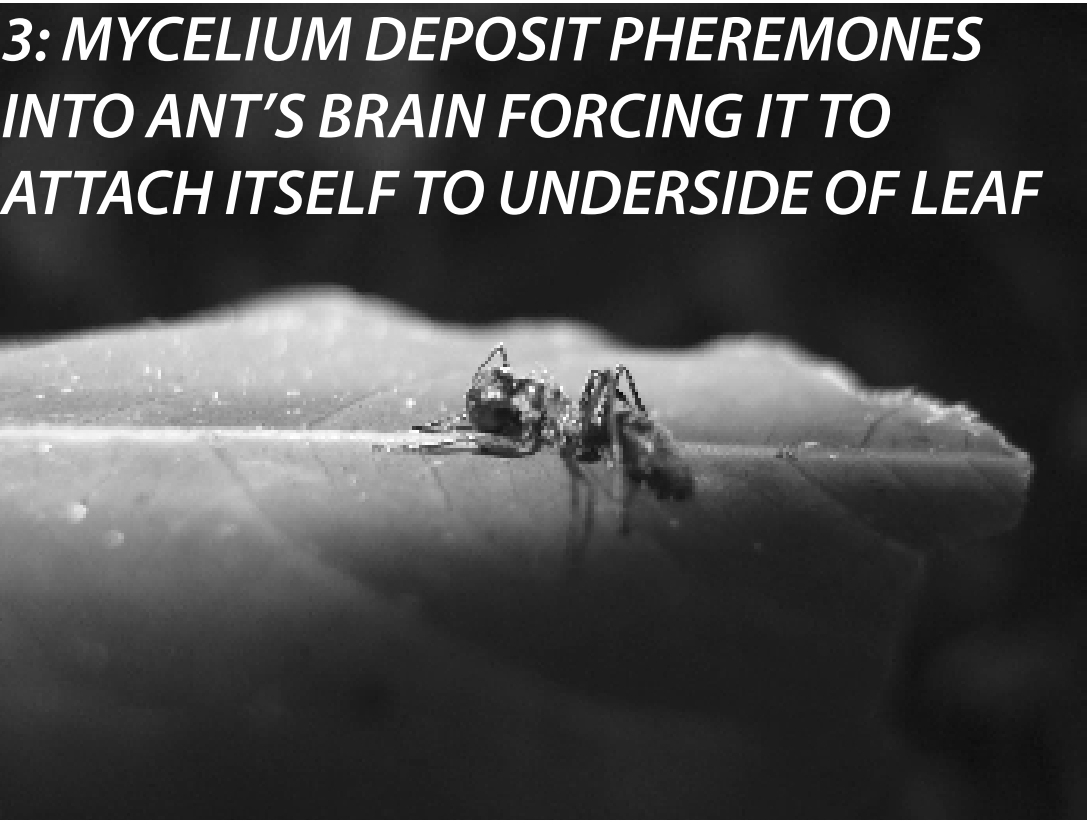


HYPHA OR MYCELIUM

POLARIZED DEPOSIT INTERFACE FOR NUTRIENT DRAIN

HOST CELLS

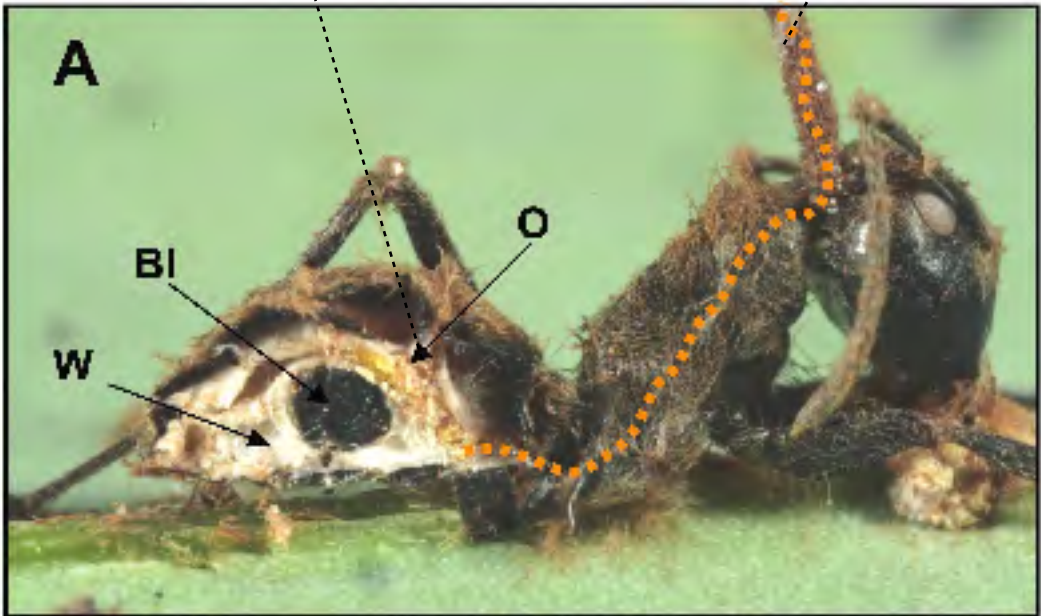
3: MYCELIUM DEPOSIT PHEROMONES INTO ANT'S BRAIN FORCING IT TO ATTACH ITSELF TO UNDERSIDE OF LEAF



4: ANT DIES AND FUNGUS RELEASES MORE SPORES

HYPHA

STROMA



AFTER DEATH



STROMA

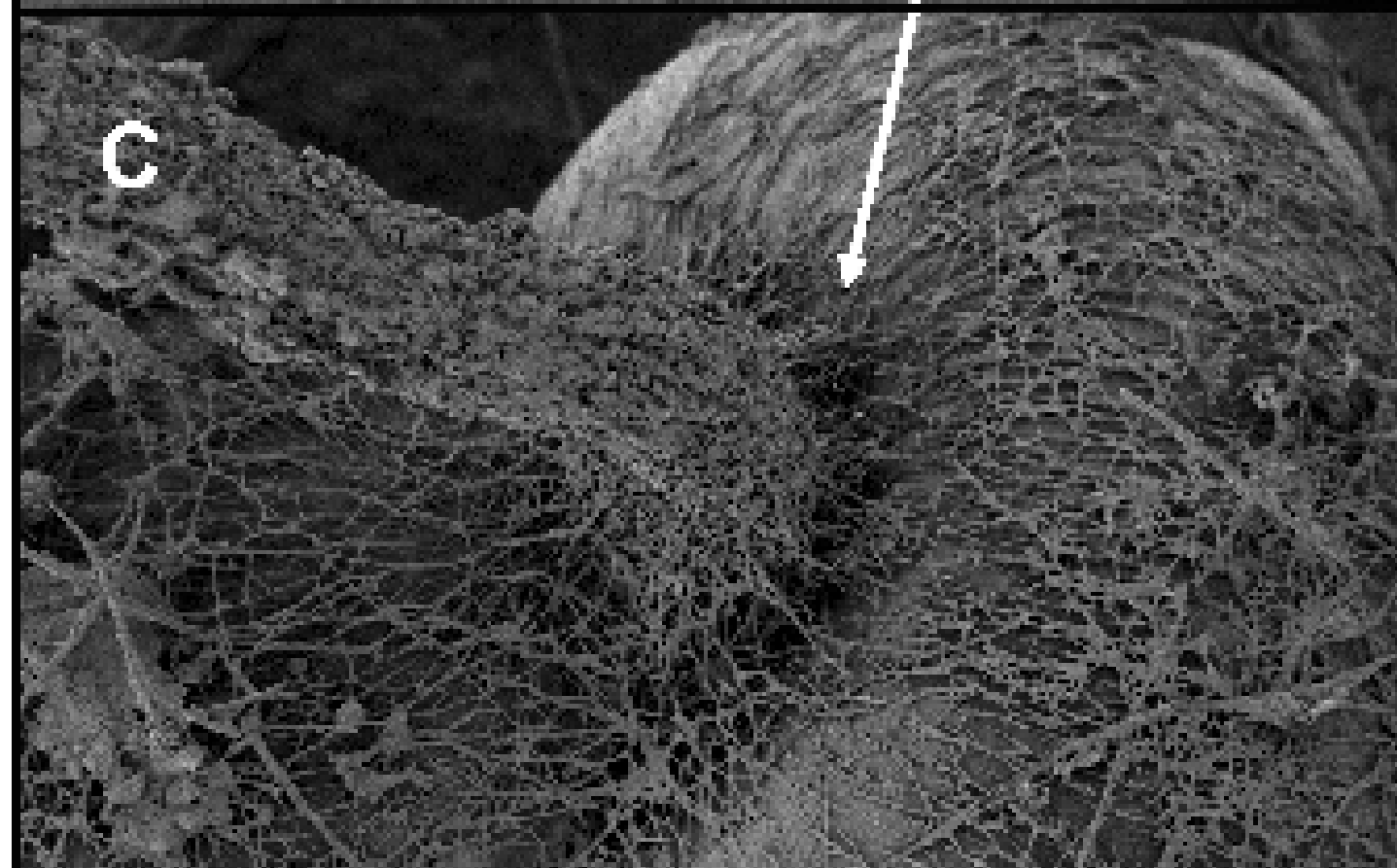
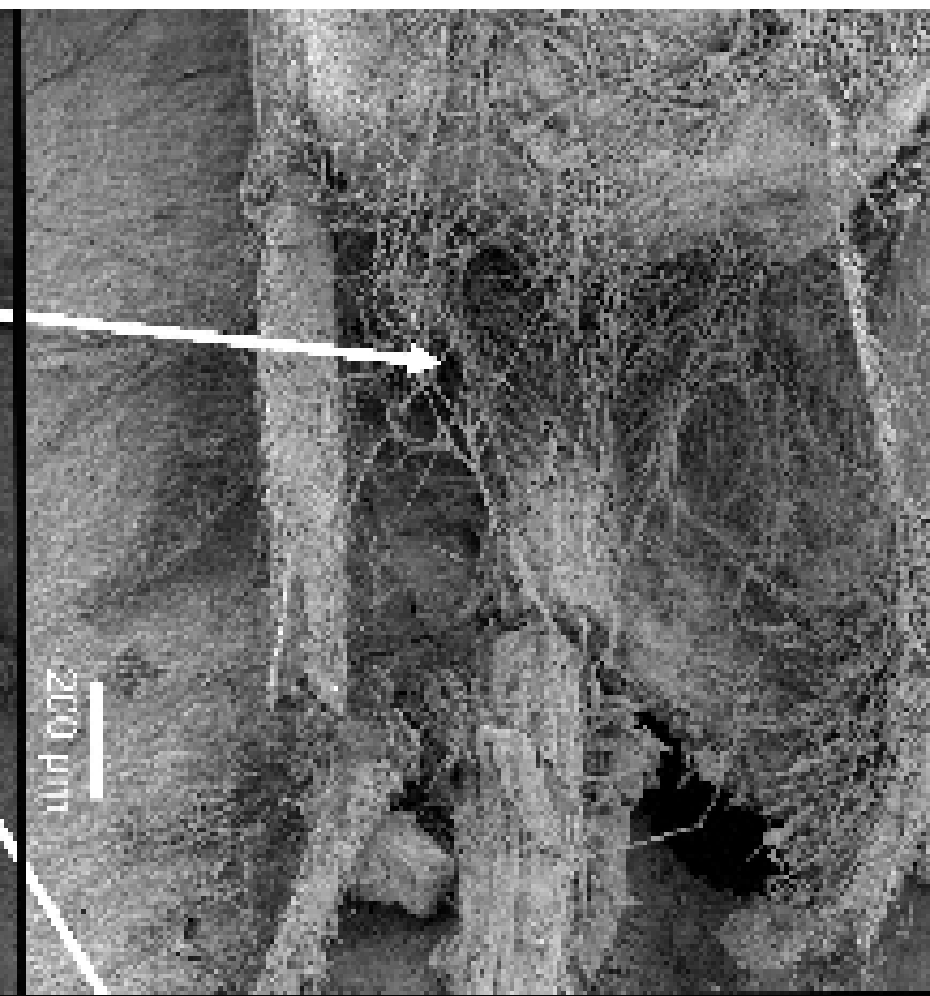
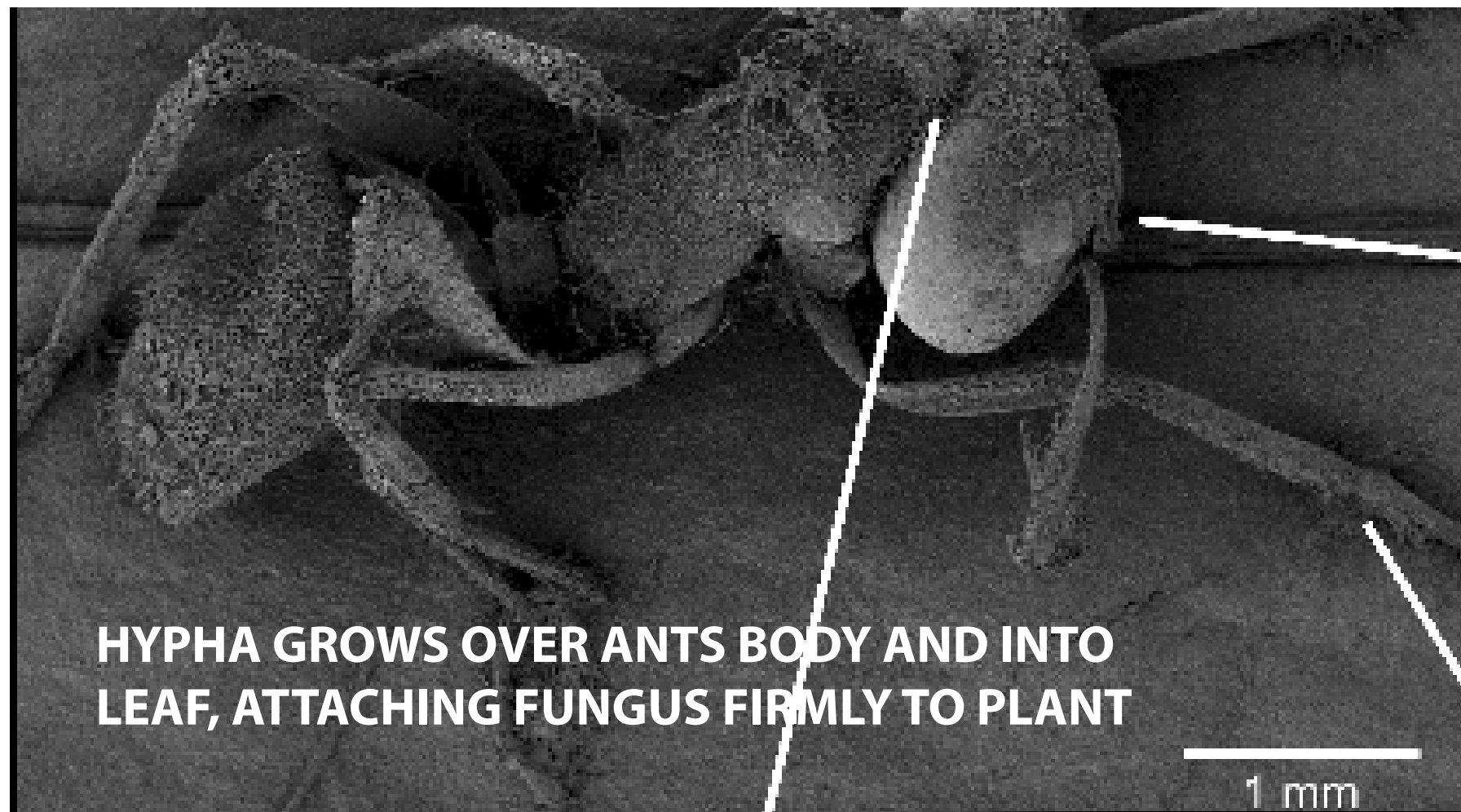
PERITHECIAL PLATES

HYPHA

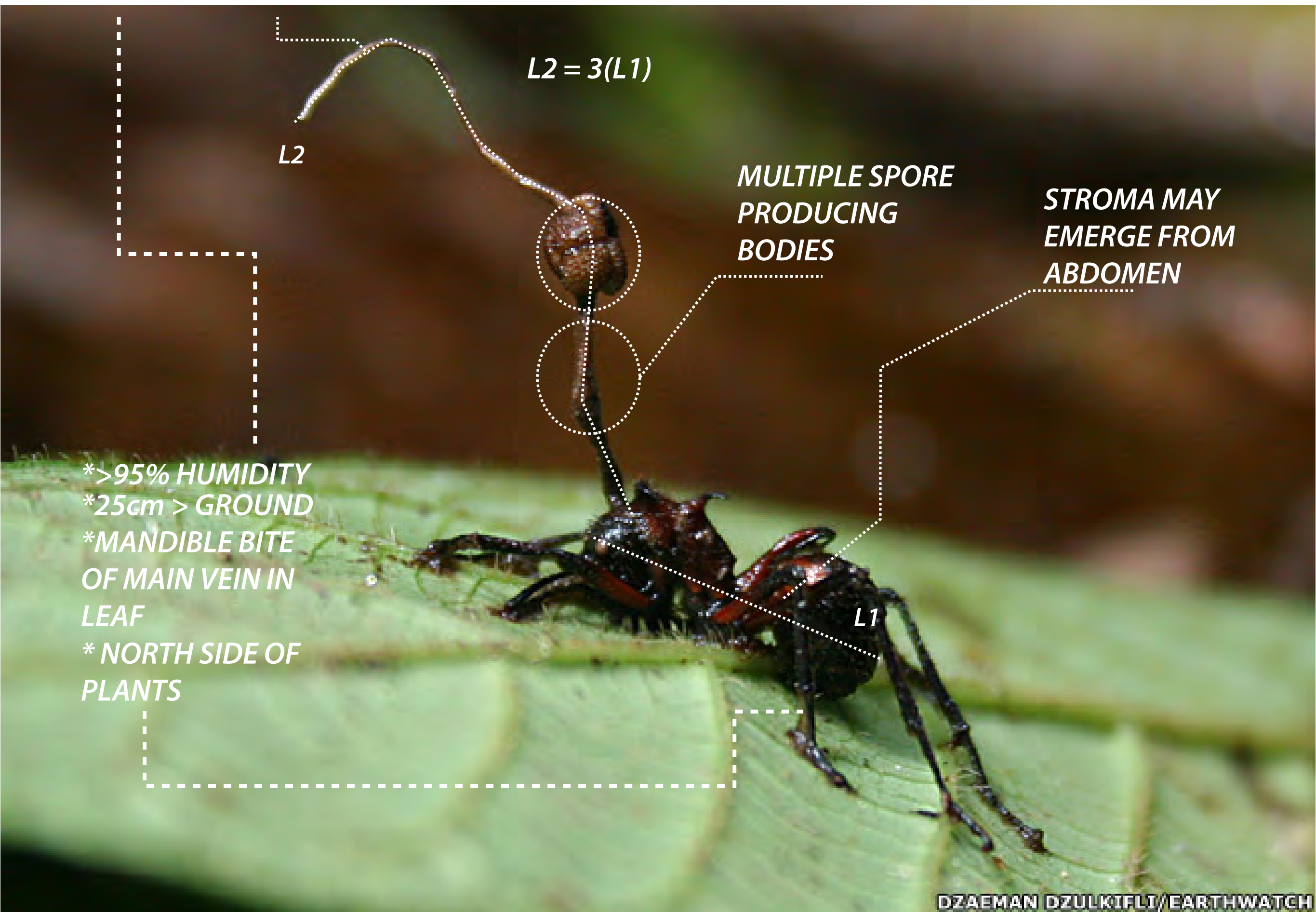
STROMA STALK

HYPHA

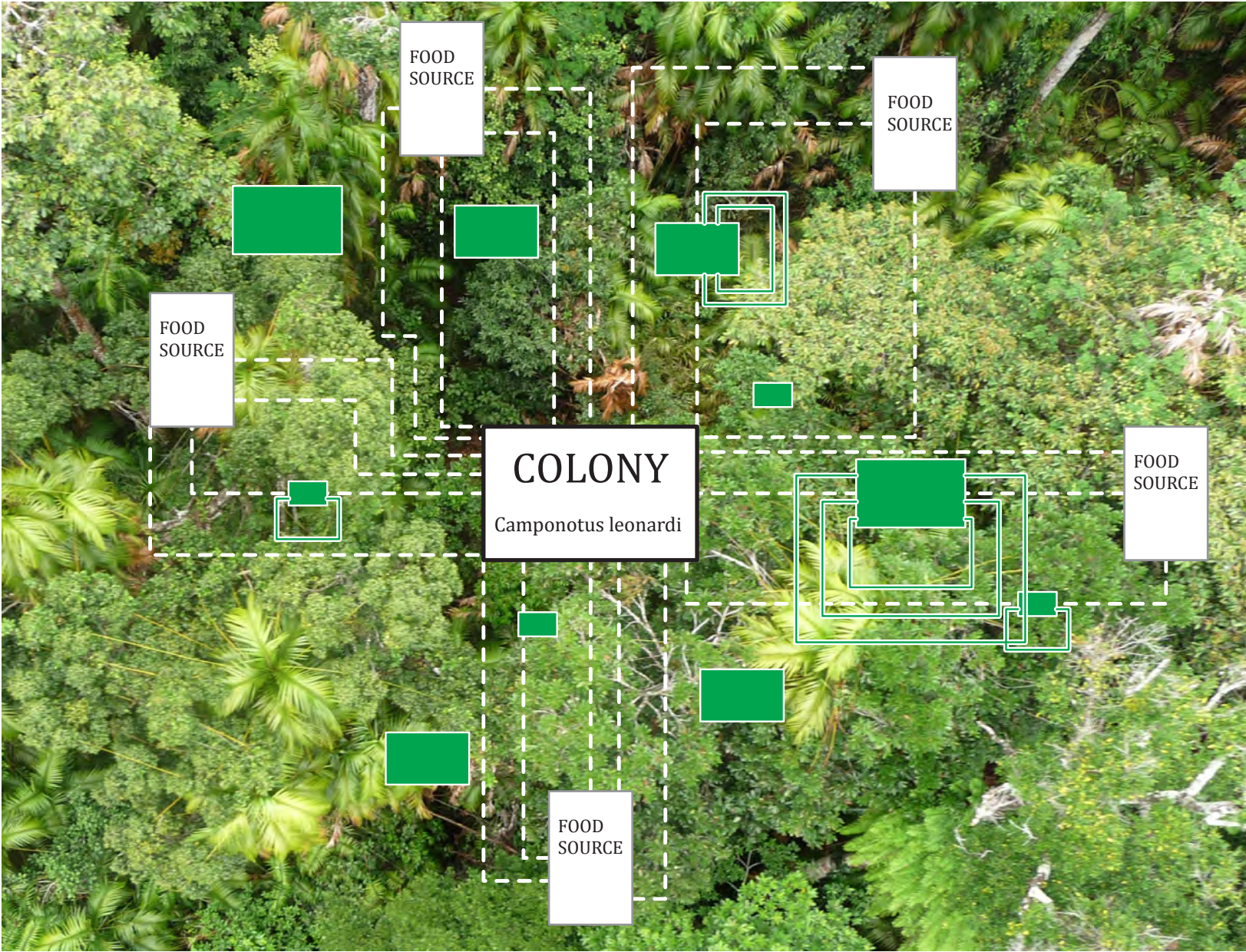
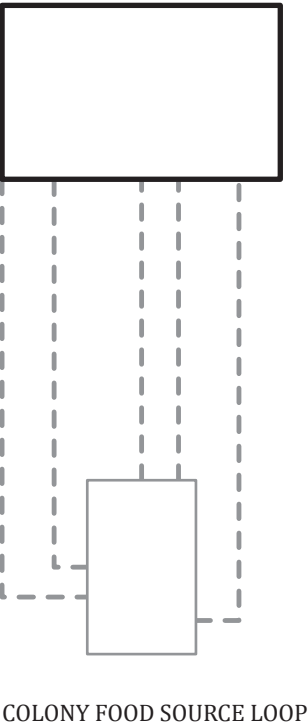
AFTER DEATH



PARAMETERS + VARIABLES

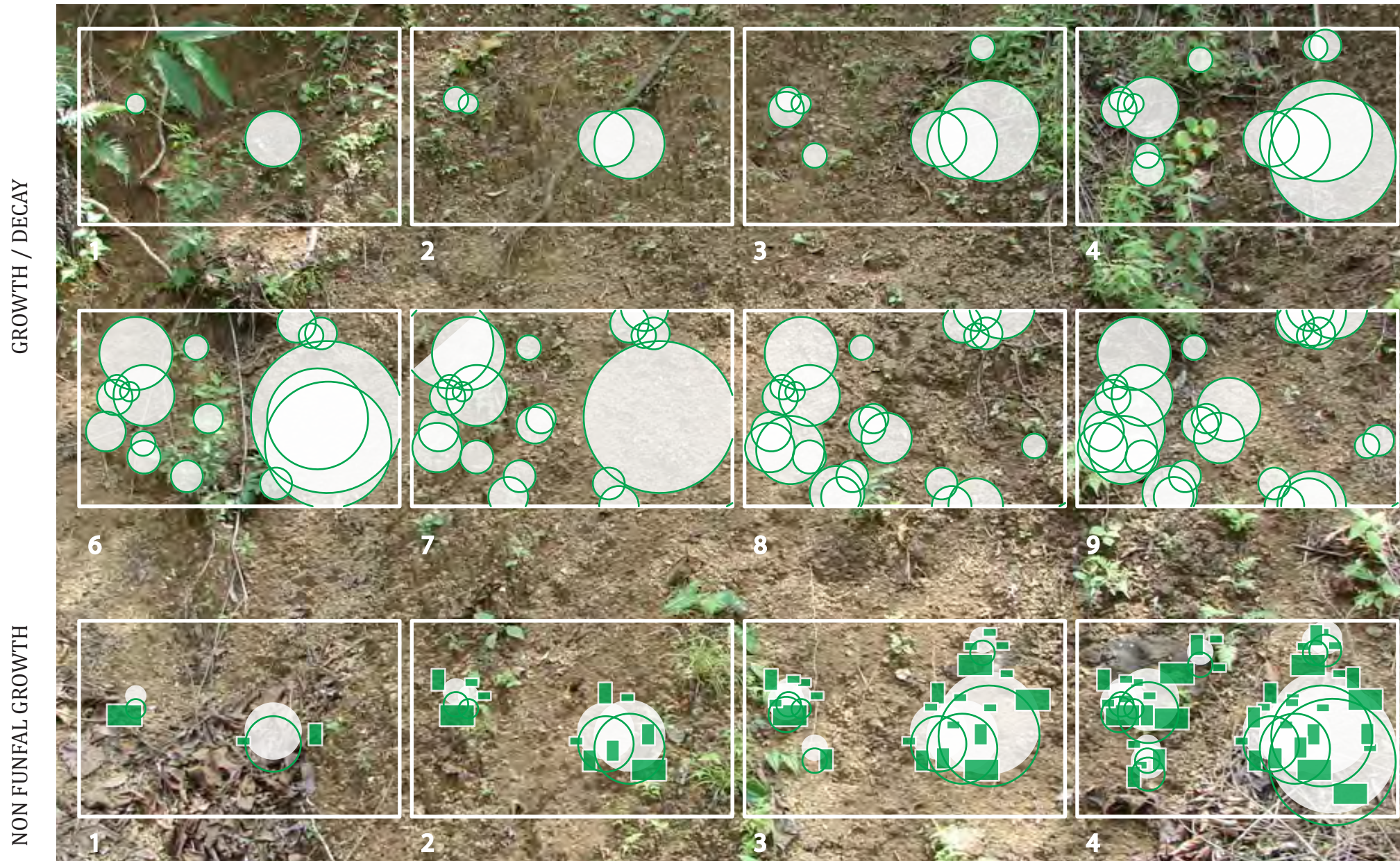


LOOPED PATHS



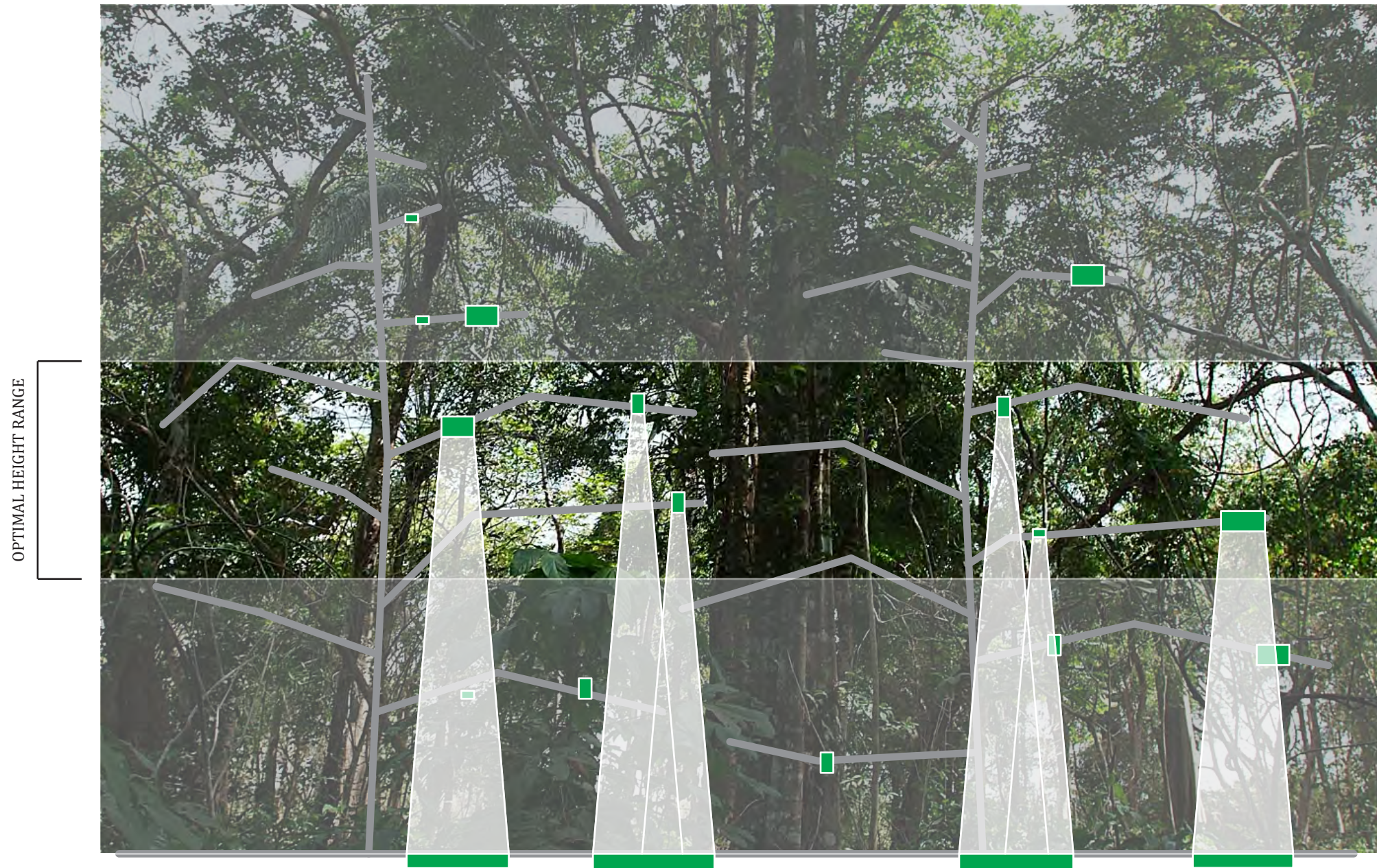
| | |
|------------|--|
| VARIABLES | FUNGALINFECTION AREA LOCATION, INFECTION AREA SIZE |
| PARAMETERS | COLONY LOCATION(XY), FOOD SOURCE LOCATION(XY), FEEDING PATH(XY), PATH HEIGHTS(Z) |

INFECTION ZONE GROWTH



| | |
|------------|--|
| VARIABLES | RATE OF INFECTED BODY DECAY, RATE OF CONSUMPTION BY NON FUNGUS GROWTH, RATE OF NEW ANT INFECTION |
| PARAMETERS | TEMPERATURE, HUMIDITY, NUMER OF NON FUNGUS ENTITIES PRESENT, WIND, HEIGHT ABOVE GROUND |

INFECTION ZONE SECTIONAL FACTORS



VARIABLES

HEIGHT ABOVE GROUND, GRAVEYARD SIZE

PARAMETERS

TEMPERATURE, HUMIDITY, WIND, SUNLIGHT EXPOSURE