




Smith Departmental Seminar at Univ Manitoba: Team Camponotus

phylogenetic	tropical	gradient	climate change	richness
sequences	description	communities	phylogenetic	Cacao
staphylinid	along		volcanoes	forest
Guanacaste	tree	climate	Costa Rica	community
neotropical	competition	host	turnover	ants


Smith Departmental Seminar at Univ Manitoba: Team Azteca

tree	Cacao	staphylinid	along	found
volcanoes	forest	Guanacaste	tree	climate
Costa Rica	community		competition	host
turnover	ants	barcode	low-elevation	habitat
pattern	increased	between	elevational	cloud(s)


Smith Departmental Seminar at Univ Manitoba: Team Odontomachus

ants	climate	Costa Rica	community	neotropical
competition	host	turnover	ants	barcode
low-elevation	habitat		increased	between
elevational	cloud(s)	relationship	sites	ant
high	specimens	warming	temperature	sampling


Smith Departmental Seminar at Univ Manitoba: Team Adelomyrmex

elevational	ants	barcode	low-elevation	habitat
pattern	increased	between	elevational	cloud(s)
relationship	sites		high	specimens
warming	temperature	sampling	high-elevation	phylogenetically
Dan and Winnie	Janzen	environmental	mid-elevation	phylogeny

Smith Departmental Seminar at Univ Manitoba: Team Pheidole

temperature	cloud(s)	relationship	sites	ant
high	specimens	warming	temperature	sampling
high-elevation	phylogenetically		Janzen	environmental
mid-elevation	phylogeny	species	area	evidence
abiotic	samples	abundance	sampled	ACG

Smith Departmental Seminar at Univ Manitoba: Team Solenopsis

phylogeny	sampling	high-elevation	phylogenetically	Dan and Winnie
Janzen	environmental	mid-elevation	phylogeny	species
area	evidence		samples	abundance
sampled	ACG	elevation	DNA	collection
change	taxonomic	linear	diversity	precipitation