

#### A) Nest mounds

Global test:  $F_{2,27} = 13.4$ ,  $p < 0.001$

	Vol (l)	$\pm$ SE	Pairwise tests	
			AA	LC
AA	901.9	173.7	-	
LC	649.9	140.3	ns	-
FF	253.6	53.2	***	***

#### B) Networks

Global test (network size):  $\chi^2 = 7.19$ ,  $p = 0.027$

Global test (volume):  $F_{2,37} = 0.764$ ,  $p = 0.473$

	Net size	Pairwise tests		Vol (l)	$\pm$ SE
		AA	LC		
AA	1-9	-		3680.2	1647.5
LC	1-7	ns	-	2905.9	967.8
FF	1-35	*	ns	3481.7	2326.1

#### C) Angle of repose

Global test:  $F_{2,27} = 13.4$ ,  $p < 0.001$

	Ang (rad)	$\pm$ SE	Pairwise tests	
			AA	LC
AA	0.726	0.03	-	
LC	0.656	0.02	ns	-
FF	0.542	0.03	***	**

**Table S1.** A) Volumes of nest mounds, B) size and volumes of networks, and C) angle of repose for the three sites, and results of all tests performed. In “Nests per network” is reported the range of nests forming networks in that site. Pairwise tests are Tukey post-hoc tests. Sites: AA, Avornio Alto; LC, le Cullacce; FF, Fosso Fresciaio. Significance levels of pairwise tests: ns, not significant; \*,  $p < 0.05$ ; \*\*,  $p < 0.01$ ; \*\*\*,  $p < 0.001$ .