

Supplemental information

A global metagenomic map of urban microbiomes and antimicrobial resistance

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Table S1: Sample Counts by City, Related to Table 1.

Region	city	Pilot	CSD16	CSD17	Other	Total
East Asia	Region Total	34.0	26.0	1300	0	1357
	Fukuoka	0.0	0.0	3	0	158
	Hanoi	0.0	0.0	16	0	16
	Hong Kong	12.0	0.0	712	0	724
	Kuala Lumpur	0.0	0.0	30	0	30
	Sendai	0.0	0.0	32	0	32
	Seoul	12.0	0.0	80	0	92
	Shanghai	10.0	0.0	0	0	10
	Singapore	0.0	0.0	192	0	192
	Taipei	0.0	0.0	94	0	94
	Tokyo	0.0	26.0	132	0	158
	Yamaguchi	0.0	0.0	9	0	9
	Europe	Region Total	177.0	310.0	939	1
Barcelona		25.0	99.0	0	0	124
Belfast		0.0	0.0	5	0	5
Berlin		0.0	55.0	1	0	56
Birmingham		0.0	0.0	5	1	6
Bradford		0.0	0.0	4	0	4
Bury		0.0	0.0	6	0	6
Eastbourne		0.0	0.0	6	0	6
Eden		0.0	0.0	5	0	5
Edinburgh		0.0	0.0	6	0	6
Islington		0.0	0.0	5	0	5
Jaywick		0.0	0.0	6	0	6
Kensington		0.0	0.0	6	0	6
Kyiv		0.0	0.0	97	0	97
Lands End		0.0	0.0	5	0	5
Lisbon		28.0	60.0	0	0	88
London		0.0	0.0	534	0	534
Marseille		0.0	96.0	16	0	112
Naples		0.0	0.0	16	0	16
Newcastle		0.0	0.0	5	0	5
Oslo		12.0	0.0	16	0	28
Paris		0.0	0.0	16	0	16
Porto		112.0	0.0	0	0	112
Sofia	0.0	0.0	16	0	16	
Stockholm	0.0	0.0	62	0	62	
Swansea	0.0	0.0	6	0	6	
Vienna	0.0	0.0	16	0	16	
Zurich	0.0	0.0	79	0	79	
Middle East	Region Total	0.0	100.0	15	0	115
	Doha	0.0	100.0	15	0	115

continent	project city	Pilot	CSD16	CSD17	Other	Total
North America	Region Total	28.0	284.0	371	276	959
	Baltimore	0.0	0.0	23	0	23
	Denver	0.0	24.0	23	0	47
	Fairbanks	0.0	141.0	0	0	141
	Mexico City	10.0	0.0	0	0	10
	Minneapolis	0.0	0.0	16	0	16
	New York City	0.0	103.0	279	276	658
	Sacramento	18.0	16.0	0	0	34
	San Francisco	0.0	0.0	30	0	30
	Region Total	0.0	94.0	32	0	126
Oceania	Auckland	0.0	16.0	0	0	16
	Brisbane	0.0	0.0	16	0	16
	Hamilton	0.0	16.0	0	0	16
	Honolulu	0.0	0.0	16	0	16
	Sydney	0.0	62.0	0	0	62
	Region Total	20.0	44.0	199	68	331
South America	Bogota	0.0	17.0	0	0	17
	Montevideo	20.0	0.0	0	0	20
	Ribeirao Preto	0.0	0.0	93	0	93
	Rio De Janeiro	0.0	0.0	77	68	145
	Santiago	0.0	27.0	0	0	27
	Sao Paulo	0.0	0.0	29	0	29
	Region Total	0.0	116.0	192	0	308
Sub Saharan Africa	Ilorin	0.0	90.0	134	0	224
	Offa	0.0	26.0	58	0	84
	Region Total	0.0	116.0	192	0	308

Table S2: Covariate Variance, Related to Figure 2. The sample variance that can be explained by each factor, in isolation.

Factor	Variance Explained
City	19%
City Population Density	0%
City Ave June Temp	4%
City Elevation	2%
Coastal City	1%
Surface Material	4%
Koppen Climate Classification	8%
Setting	2%
Above/Below Ground	7%
Continent	11%