

Table S1: Bacterial population suspended in bioaerosol particles in densely populated study area per hour

Duration	10mins		20mins		30mins		40mins		50mins		60mins	
Location	Bacteria		Bacteria		Bacteria		Bacteria		Bacteria		Bacteria	
95% Confidence	Mean colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³
L1-BS	246±12.3	1.93x10 ⁵	284±14.2	1.12x10 ⁵	366±18.3	9.59x10 ⁴	384±19.2	7.54x10 ⁴	440±22.0	6.96x10 ⁴	480±24.0	6.29x10 ⁴
L2-BM	432±21.6	4.40x10 ⁵	496±24.8	1.95x10 ⁵	720±36.0	1.41x10 ⁵	880±44.0	1.38x10 ⁵	TNTC	ND	TNTC	ND
L3-EM	339±16.9	2.66x10 ⁵	390±19.5	1.53x10 ⁵	543±27.2	1.42x10 ⁵	632±31.6	1.66x10 ⁵	680±34.0	1.34x10 ⁵	902±45.1	1.20x10 ⁵
L4-IG	038±01.9	2.99x10 ⁴	098±04.9	3.85x10 ⁴	122±06.1	3.20x10 ⁴	156±07.8	3.06x10 ⁴	186±09.3	2.92x10 ⁴	260±13.0	3.41x10 ⁴
L5-IL	228±11.4	1.79x10 ⁵	232±11.6	9.12x10 ⁴	304±15.2	7.96x10 ⁴	360±18.0	7.07x10 ⁴	352±17.6	5.53x10 ⁴	408±20.4	5.34x10 ⁴
L6-KB	237±11.9	1.86x10 ⁵	258±12.9	1.01x10 ⁵	335±16.8	8.78x10 ⁴	370±18.5	7.27x10 ⁴	396±19.8	6.22x10 ⁴	444±22.2	5.82x10 ⁴
L7-MB	132±06.6	1.03x10 ⁵	150±07.5	5.89x10 ⁴	201±10.1	5.27x10 ⁴	237±11.9	4.67x10 ⁴	241±12.1	3.79x10 ⁴	298±14.9	3.90x10 ⁴
L8-NG	036±01.8	2.83x10 ⁴	068±03.4	2.67x10 ⁴	097±04.9	2.54x10 ⁴	114±05.7	2.24x10 ⁴	130±06.5	2.04x10 ⁴	188±09.4	2.46x10 ⁴
L9-OE	236±11.8	1.85x10 ⁵	260±13.0	1.02x10 ⁵	288±14.4	7.54x10 ⁴	416±20.8	8.17x10 ⁴	400±20.0	6.29x10 ⁴	412±20.6	5.40x10 ⁴
L10-OD	204±10.2	1.60x10 ⁵	254±12.7	9.98x10 ⁴	274±13.7	7.18x10 ⁴	316±15.8	4.97x10 ⁴	352±17.6	5.53x10 ⁴	384±19.2	5.03x10 ⁴

BS: Bariga Bus-station, BM: Bariga market, EM: Evening market, IG: Igbo-Igunnu spares-part market, IL:Ilaje Bus stop, KB: Kajola Bus stop, MB: Murtala Bus stop, NG: New Garage, OE: Odo-eran market, OD: Odunsi Bus stop, TNTC: Too numerous-to-count, CFU: Colony forming unit, F-ratio > F-critical value (21.87>2.07), p=0.05.

Table S2: Fungal population suspended in bioaerosol particles in densely populated study area per hour

Duration	10mins		20mins		30mins		40mins		50mins		60mins	
Locations	Fungi		Fungi		Fungi		Fungi		Fungi		Fungi	
95% Confidence	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³
L1-BS	06±0.3	4.72x10 ³	05±0.3	1.96x10 ³	16±0.8	4.19x10 ³	03±0.2	5.89x10 ²	04±0.2	6.29x10 ²	07±0.4	9.16x10 ²
L2-BM	26±1.3	2.04x10 ⁴	09±0.5	3.54x10 ³	07±0.4	1.83x10 ³	00±0.0	0.00x10 ¹	06±0.3	9.43x10 ²	03±0.2	3.93x10 ²
L3-EM	08±0.4	6.29x10 ³	11±0.6	4.32x10 ³	13±0.7	3.41x10 ³	10±0.5	1.96x10 ³	16±0.8	2.51x10 ³	15±0.8	1.96x10 ³
L4-IG	04±0.2	3.14x10 ³	06±0.3	2.36x10 ³	05±0.3	1.31x10 ³	08±0.4	1.51x10 ³	05±0.3	7.86x10 ²	08±0.4	1.05x10 ³
L5-IL	09±0.5	7.07x10 ³	09±0.5	3.54x10 ³	11±0.6	2.88x10 ³	07±0.4	1.38x10 ³	18±0.9	2.83x10 ³	07±0.4	9.16x10 ²
L6-KB	07±0.4	5.50x10 ³	07±0.4	2.75x10 ³	12±0.6	3.14x10 ³	15±0.8	2.95x10 ³	13±0.7	2.04x10 ³	18±0.9	2.36x10 ³
L7-MB	08±0.4	6.29x10 ³	10±0.5	3.93x10 ²	12±0.6	3.14x10 ³	11±0.6	2.16x10 ³	16±0.8	2.51x10 ³	22±1.1	2.88x10 ³
L5-NG	02±0.1	1.57x10 ³	08±0.4	3.14x10 ³	04±0.2	1.05x10 ³	03±0.2	5.89x10 ²	10±0.5	1.58x10 ³	14±0.7	1.83x10 ³
L6-OE	00±0.0	0.00x10 ¹	08±0.4	3.14x10 ³	14±0.7	3.67x10 ³	15±0.8	2.95x10 ³	16±0.8	2.51x10 ³	12±0.6	1.57x10 ³
L7-OD	05±0.3	3.93x10 ³	19±1.0	7.47x10 ³	17±0.9	4.45x10 ³	13±0.7	2.55x10 ³	11±0.6	1.73x10 ³	10±0.5	1.31x10 ³

BS: Bariga Bus-station, BM: Bariga market, EM: Evening market, IG: Igbo-Igunnu spares-part market, IL:Ilaje Bus stop, KB: Kajola bus stop, MB: Murtala bus stop, NG: New Garage, OE: Odo-eran market, OD: Odunsi market, CFU: Colony forming unit, F-ratio < F-critical value (21.87>2.07), p=0.05

Table S3: Bacterial populations suspended in bioaerosol particles in less-densely populated study area per hour

Duration Locations 95% Confidence	10mins Bacteria		20mins Bacteria		30mins Bacteria		40mins Bacteria		50mins Bacteria		60mins Bacteria	
	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean Colonies	CFU/m ³
L1-AB	055±2.8	4.32x10 ⁴	087±4.4	3.42x10 ⁴	104±5.2	2.72x10 ⁴	124±6.2	2.44x10 ⁴	208±10.4	3.27x10 ⁴	228±11.4	2.99x10 ⁴
L2-AD	066±3.3	5.19x10 ⁴	096±4.8	3.77x10 ⁴	122±6.1	3.20x10 ⁴	145±7.3	2.85x10 ⁴	172±8.6	2.70x10 ⁴	186±9.3	2.44x10 ⁴
L3-CR	061±3.1	4.79x10 ⁴	079±3.4	3.10x10 ⁴	105±5.3	2.75x10 ⁴	126±6.3	2.48x10 ⁴	147±7.4	2.31x10 ⁴	158±7.9	2.07x10 ⁴
L4-EA	072±3.6	5.66x10 ⁴	087±4.4	3.42x10 ⁴	104±5.2	2.72x10 ⁴	124±6.2	2.44x10 ⁴	177±8.9	2.78x10 ⁴	208±10.4	2.72x10 ⁴
L5-IF	038±1.9	2.99x10 ⁴	069±3.5	2.71x10 ⁴	069±3.5	1.81x10 ⁴	092±4.6	1.81x10 ⁴	220±1.1	3.46x10 ⁴	136±6.8	1.78x10 ⁴
L6-LW	064±3.2	5.03x10 ⁴	088±4.4	3.46x10 ⁴	114±5.7	2.99x10 ⁴	134±6.7	2.63x10 ⁴	160±8.0	2.51x10 ⁴	172±8.6	2.25x10 ⁴
L7-OLA	072±3.6	5.66x10 ⁴	104±5.2	4.09x10 ⁴	138±6.9	3.61x10 ⁴	156±7.8	3.06x10 ⁴	196±9.8	3.08x10 ⁴	218±10.9	2.86x10 ⁴
L8-OL	015±0.8	1.18x10 ⁴	064±3.2	2.51x10 ⁴	047±2.3	1.23x10 ⁴	074±3.7	1.45x10 ⁴	070±3.5	1.10x10 ⁴	053±2.7	6.94x10 ³
L9-OS	056±2.8	4.40x10 ⁴	062±3.1	2.44x10 ⁴	088±4.4	2.31x10 ⁴	106±5.3	2.08x10 ⁴	121±6.1	1.90x10 ⁴	130±6.5	1.70x10 ⁴
L10-TEM	106±5.3	8.33x10 ⁴	232±11.6	9.12x10 ⁴	268±13.4	7.02x10 ⁴	320±16.0	6.29x10 ⁴	352±17.5	5.53x10 ⁴	372±18.5	4.87x10 ⁴

AB: Abeokuta residential street, AD: Adeboye residential area, CR: Community Road, EA: Evans Adelaja street, IF: Ifelodun street, LW: Lawal street, OLA: Olalere street, OL: Olarewaju residential area, OS: Oshinfolarin street, TEM: Temple residential area, CFU: Colony forming unit, F-ratio > F-critical value (21.87>2.07), p=0.05

Table S4: Fungal populations suspended in bioaerosol particles in less-densely populated study area per hour

Duration Locations 95% confidence	10mins Fungi		20mins Fungi		30mins Fungi		40mins Fungi		50mins Fungi		60mins Fungi	
	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean Colonies	CFU/m ³	Mean colonies	CFU/m ³	Mean Colonies	CFU/m ³
L1-AB	00±0.0	0.00x10 ¹	05±0.3	1.96x10 ³	08±0.4	2.10x10 ³	14±0.7	2.75x10 ³	19±1.0	2.99x10 ³	21±1.1	2.75x10 ³
L2-AD	14±0.7	1.10x10 ⁴	18±0.9	7.07x10 ³	14±0.7	3.67x10 ³	14±0.7	2.75x10 ³	11±0.6	1.73x10 ³	15±0.8	1.96x10 ³
L3-CR	08±0.4	6.29x10 ³	11±0.6	4.32x10 ³	13±0.7	3.40x10 ³	10±0.5	1.96x10 ³	16±0.8	2.51x10 ³	18±0.9	2.36x10 ³
L4-EA	06±0.3	4.72x10 ³	09±0.5	3.54x10 ³	11±0.6	2.88x10 ³	16±0.5	3.14x10 ³	20±1.0	3.14x10 ³	28±1.4	3.68x10 ³
L5-IF	00±0.0	0.00x10 ¹	00±0.0	0.00x10 ¹	01±0.1	2.62x10 ²	01±0.1	1.96x10 ²	01±0.1	1.57x10 ²	00±0.0	0.00x10 ¹
L6-LW	01±0.1	7.86x10 ²	03±0.2	1.18x10 ³	05±0.3	1.31x10 ³	05±0.3	9.82x10 ²	12±0.6	1.87x10 ³	14±0.7	1.83x10 ³
L7-OLA	16±0.8	1.26x10 ⁴	15±0.8	5.89x10 ³	26±1.3	6.81x10 ³	28±1.4	4.40x10 ³	30±1.5	4.72x10 ³	12±0.6	1.57x10 ³
L8-OL	01±0.1	7.86x10 ²	02±0.1	7.86x10 ²	02±0.1	5.23x10 ²	01±0.1	1.96x10 ²	04±0.2	6.28x10 ²	01±0.1	1.30x10 ²
L9-OS	02±0.1	1.57x10 ³	08±0.4	2.84x10 ³	08±0.4	2.10x10 ³	06±0.3	1.18x10 ³	04±0.2	6.29x10 ²	07±0.4	9.17x10 ²
L10-TEM	40±2.0	3.14x10 ⁴	44±2.2	1.73x10 ⁴	56±2.8	1.47x10 ⁴	16±0.8	3.14x10 ³	42±2.1	6.60x10 ³	66±3.3	8.64x10 ³

AB: Abeokuta residential street, AD: Adeboye residential area, CR: Community road, EA: Eavns Adelaja, IF: Ifelodun street, LW: Lawal street, OLA: Olalere street, OL: Olarewaju residential area, OS: Oshinfolarin street, TEM: Temple residential area, CFU: Colony forming unit, F-ratio < F-critical (21.87>2.07), p=0.05