Supplementary Table S1 : Number of samples collected (N) at the different geographic locations in each country. The location of the different sites is visualized in **Figure 1**.

Guinea	N
Boffa	21
Boke	49
Conakry	175
Faranah	48
Forecariah	15
Gueckedou	71
Kankan	110
Kindia	224
Kissidougou	25
Koundara	249
Lola	16
Macenta	154
Mali	119
Maman/Mamou	164
Nzerekore	11
Siguri	58

Cameroon	N
Bipindi	1138
Campo	1
Doumo Pierre	41
Mambele	268
Mbankomo	56
Nkolbisson	62
Obala	131
Tibati	52
Yaoundé	462

DRC	
Beni	245
Bikoro	136
Butembo	33
Iboko	76
Ingende	44
Mangina	79
Mbandaka	284

Supplementary Table S2 : Number (n) and percentages (%) of bat genus/species positive for coronaviruses per country and per species.

	DRC		Cameroon		Guinea		Total	
	n tested	n pos (%)	n tested	n pos (%)	n tested	n pos (%)	n tested	n (%)
Frugivorous bats								
Pteropodidae								
Casinycteris arginnis	22	0 (0)	2	0 (0)	nt [d]	nt	24	0 (0)
Eidolon helvum	56	12 (21.4)	500	211 (42.2)	177	70 (39.5)	733	293 (39.9)
Epomophorus sp.[a]	258	9 (3.5)	nt	nt	479	63 (13.2)	737	72 (9.8)
Epomops sp. [b]	210	3 (1.4)	28	2 (7.1)	20	3 (15.0)	258	8 (3.1)
Hypsignathus monstrosus	8	0 (0)	76	9 (11.8)	19	3 (15.8)	103	12 (11.7)
Lissonycteris angolensis	10	0 (0)	9	0 (0)	46	2 (4.3)	65	2 (3.1)
Megaloglossus woermanni	12	2 (6.7)	3	0 (0)	nt	nt	15	2 (13.3)
Micropteropus pusillus	147	4 (2.7)	2	0 (0)	16	1 (6.3)	165	5 (3.0)
Myonycteris torquata	86	6 (7.1)	4	0 (0)	1	0 (0)	91	6 (6.6)
Nanonycteris sp. [c]	nt	nt	nt	nt	3	1 (33.3)	3	1 (33.3)
Rousettus aegyptiacus	nt	nt	226	49 (21.7)	565	65 (11.5)	791	114 (14.4)
Scotonycteris bergmansi	1	0 (0)	nt	nt	nt	nt	1	0 (0)
subtotal	**810**	**36 (4.4)**	**850**	**271 (31,9)**	**1326**	**208 (15.7)**	**2986**	**515 (17.2)**
Insectivorous bats								
Emballonuridae								
Coleura afra	nt	nt	1	1 (100)	nt	nt	1	1 (100)
Hipposideridae								
Hipposideros sp. [c]	47	0 (0)	206	51 (24.8)	38	10 (26.3)	291	61 (20.9)
Miniopteridae								
Miniopterus sp. [c]	nt	nt	9	9 (100)	nt	nt	9	9 (100)
Molossidae								
Chaerephon sp. [c]	3	0 (0)	nt	nt	9	0 (0)	12	0 (0)
Mops sp. [c]	21	0 (0)	235	6 (2.6)	nt	nt	256	6 (2.3)
Mops/Chaerephon sp. [c]	13	0 (0)	104	0 (0)	14	4 (28.6)	131	4 (3.1)
Nycteridae								
Nycteris sp. [c]	nt	nt	nt	nt	5	1 (20.0)	5	1 (20)
Rhinolophidae								
Rhinolophus sp.	nt	nt	786	289 (36.8)	113	17 (15.0)	899	306 (34.1)
Vespertilionidae								
Myotis sp. [c]	3	0 (0)	nt	nt	1	0 (0)	4	0 (0)
Scotophilus sp. [c]	nt	nt	nt	nt	3	0 (0)	3	0 (0)
subtotal	**87**	**0 (0)**	**1341**	**356 (26.5)**	**183**	**32 (17.5)**	**1611**	**388 (24.1)**
Total	**897**	**36 (4.0)**	**2191**	**627 (28.6)**	**1509**	**240 (15.9)**	**4597**	**903 (19.6)**

[a] Two *Epomophorus* species were observed, *E. gambianus* in Guinea, Cameroon and Western DRC and *E. labiatus* in Eastern DRC.

[b] Two *Epomops* species were observed, *E. franqueti* in Cameroon and DRC and *E. buettikoferi* in Guinea.

[c] Identification at species level was not possible for a significant proportion of samples tested and were therefore grouped at the genus level.

[d] nt: not tested

Supplementary Table S3: Number (n) and proportion (%) of alpha and beta coronaviruses per bat genus/species, and p-values resulting from comparison of the proportions between alpha and betacoronavirus per genus/species, when applicable (χ^2 test).

	Sequences n	alpha coronavirus n pos (%)	beta coronavirus n pos (%)	p-value $\chi2$ test
Frugivorous bats				
Pteropodidae				
Eidolon helvum	238	2 (0.8)	236 (99.2)	$<10^{-4}$ *
Epomophorus sp. [a]	55	2 (3.6)	53 (96.4)	$<10^{-4}$ *
Epomops sp. [b]	5	0 (0.0)	5 (100)	na [d]
Hypsignathus monstrosus	10	0 (0.0)	10 (100)	na
Lissonycteris angolensis	2	1 (50.0)	1 (50.0)	na
Megaloglossus woermanni	2	0 (0.0)	2 (100)	na
Micropteropus pusillus	5	0 (0.0)	5 (100)	na
Myonycteris torquata	6	0 (0.0)	6 (100)	na
Nanonycteris sp. [c]	1	0 (0.0)	1 (100)	na
Rousettus aegyptiacus	97	21 (21.6)	76 (78.4)	$<10^{-4}$ *
subtotal frugivorous bats	**421**	**26 (6.2%)**	**395 (93.8%)**	**0.0029***
Insectivorous bats				
Emballonuridae				
Coleura afra	1	1 (100)	0 (0.0)	na
Hipposideridae				
Hipposideros sp. [c]	53	16 (30.2)	37 (69.8)	na
Miniopteridae				
Miniopterus sp. [c]	7	7 (100)	0 (0.0)	na
Molossidae				
Mops sp. [c]	6	3 (50.0)	3 (50.0)	na
Mops/Chaerephon sp. [c]	4	0 (0.0)	4 (100)	na
Nycteridae				
Nycteris sp. [c]	1	0 (0.0)	1 (100)	
Rhinolophidae				
Rhinolophus sp.[c]	275	122 (44.4)	153 (55.6)	0.0545, ns[e]
subtotal insectivorous bats	**347**	**149 (42.9%)**	**198 (57.1%)**	**0.44, ns**
Total	**768**	**175 (22.8)**	**593 (77.2)**	**$<10^{-4}$ ***

[a] Two E*pomophorus* species were observed, *E. gambianus* in Guinea, Cameroon and Western DRC and *E. labiatus* in Eastern DRC
[b] Two *Epomops* species were observed, *E. franqueti* in Cameroon and DRC and *E. buettikoferi*
[c] Identification at species level was not possible for a significant proportion of samples tested and were therefore grouped at the genus level.
[d] na: non applicable χ^2 test (numbers too low, or do not exist)
[e] ns : non significant χ^2 test (p-value>0.05)
* significant χ^2 test (p-value<0.05)

Supplementary Table S4: Number of bats positive for coronaviruses (n pos) on total number tested (N) and percentages (%) of samples per bat genus/species in Cameroon per age category (adults (A), immature adults (imm) and juveniles (J) and per species). The p-values result from comparison of the proportions of positive per genus/species, when applicable (χ^2 test).

	A n pos/N	A % pos	imm n pos/N	imm % pos	J n pos/N	J %pos	p-value
Frugivorous bats							
Pteropodidae							
Casinycteris arginnis	0/1	0.0	0/1	0.0	-	-	na[d]
Eidolon helvum	41/146	28.1	89/200	44.5	80/153	52.3	ns
Epomops franqueti	2/19	10.5	0/3	0.0	0/4	0.0	ns
Hypsignathus monstrosus	10/58	17.2	1/10	10	2/8	25.0	
Lissonycteris angolensis	0/6	0.0	0/2	0.0	0/1	0.0	na
Megaloglossus woermanni	0/2	0.0	0/1	0.0	-	-	na
Micropteropus pusillus	0/1	0.0	0/1	0.0	-	-	na
Myonycteris torquata	0/2	0.0	0/1	0.0	-	-	na
Rousettus aegyptiacus	5/109	4.6	18/38	47.4	26/79	32.9	ns
Subtotal frugivorous bats	**58/344**	**16.9**	**108/257**	**42**	**108/245**	**44.1**	**<10⁻⁴ ***
Insectivorous bats							
Emballonuridae							
Coleura sp.	1/1	100	-	-	-	-	na
Hipposideridae							
Hipposideros sp.	27/108	25.0	23/97	23.7	1/1	100	na
Miniopteridae							
Miniopterus	3/3	100	5/5	100	-	-	na
Molossidae							
Chaerephon sp.	0/77	0.0	-	-	0/25	0.0	na
Mops sp.							
Rhinolophidae							
Rhinolophus sp.	117/411	28.5	150/347	43.2	21/26	80.7	ns
Subtotal insectivorous bats	**151/759**	**19.9**	**179/450**	**39.8**	**22/83**	**26.5**	**<10⁻⁴ ***
Total	**209/1103**	**18.9**	**287/707**	**40.6**	**130/328**	**39.6**	**10⁻⁴ ***

[a] Two E*pomophorus* species were observed, *E. gambianus* in Guinea, Cameroon and Western DRC and *E. labiatus* in Eastern DRC

[b] Two *Epomops* species were observed, *E. franqueti* in Cameroon and DRC and *E. buettikoferi*

[c] Identification at species level was not possible for a significant proportion of samples tested and were therefore grouped at the genus level.

[d] na non applicable (numbers too low or do not exist)

[e] ns : non significant χ^2 test (p-value>0.05)

* significant χ^2 test (p-value<0.05)