

Supplementary Information

Population genetic structure of black rats in an urban environment: a case study in Cotonou, Benin

S.A. Badou, P. Gauthier, G. Houéménou, A. Loiseau, H.-J. Dossou, J. Etougbétché, H. Houéménou, C. Agbangla, C. Brouat, G. Dobigny

Table S1: Number of genotyped individuals without (N) related individuals. allelic richness (A), observed heterozygosity (Ho), expected heterozygosity (He), inbreeding coefficient (Fis) (dataset 3)

Pops	N	A	Ho	He	Fis
ABO	18	4.36	0.58	0.602	0.0378
AHO	18	4.6	0.667	0.594	-0.13
AVO	18	3.8	0.57	0.595	0.0427
CHA	16	4.29	0.57	0.603	0.0541
DED	15	4.77	0.537	0.567	0.0554
ENA	13	4.46	0.504	0.56	0.1029
FIF	27	4.06	0.538	0.612	0.1224
GAN	13	4.6	0.526	0.554	0.0523
KOW	13	3.83	0.517	0.576	0.1067
DAN	14	4.39	0.567	0.567	-0.0016
MIN	19	4.03	0.571	0.592	0.0363
PAC	14	5.04	0.5	0.631	0.2142
SUR	18	4.81	0.509	0.618	0.1808
TOK	15	4.7	0.522	0.533	0.0208
VOS	15	3.74	0.611	0.606	-0.0081
ZOG	17	4.24	0.525	0.559	0.0622
	263	4.35	0.5509	0.5856	0.0595

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Table S2: F_{ST} per population pairs as calculated with the 18 microsatellites marks.

Pop	AHO	FIF	DAN	PAC	TOK	VOS	ZOG	DED	ENA	ABO	AVO	CHA	GAN	KOW	MIN
FIF	0.04														
DAN	0.11	0.07													
PAC	0.08	0.06	0.09												
TOK	0.11	0.07	0.10	0.13											
VOS	0.06	0.0005	0.09	0.07	0.09										
ZOG	0.07	0.04	0.10	0.06	0.09	0.07									
DED	0.06	0.07	0.08	0.08	0.10	0.09	0.09								
ENA	0.09	0.05	0.08	0.06	0.07	0.07	0.09	0.06							
ABO	0.08	0.05	0.08	0.07	0.08	0.07	0.06	0.06	0.06						
AVO	0.07	0.04	0.09	0.06	0.08	0.06	0.05	0.07	0.04	0.06					
CHA	0.07	0.06	0.10	0.06	0.11	0.08	0.08	0.07	0.06	0.08	0.03				
GAN	0.09	0.08	0.16	0.11	0.12	0.10	0.10	0.10	0.08	0.07	0.06	0.07			
KOW	0.11	0.07	0.11	0.12	0.12	0.07	0.13	0.11	0.10	0.10	0.04	0.07	0.10		
MIN	0.05	0.05	0.11	0.06	0.12	0.07	0.05	0.07	0.06	0.04	0.03	0.04	0.03	0.08	
SUR	0.06	0.04	0.08	0.06	0.09	0.05	0.06	0.06	0.06	0.06	0.003	0.01	0.07	0.04	0.04

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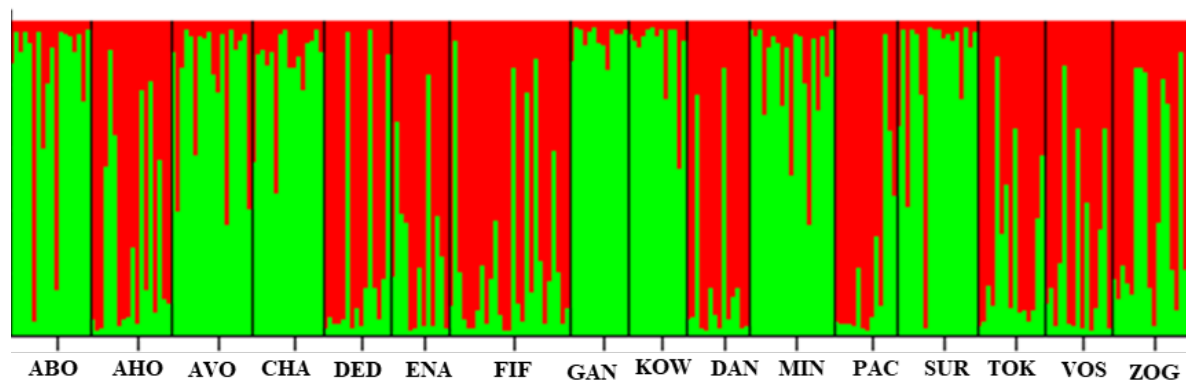


Figure S3: Genetic structure of *Rattus rattus* populations in Cotonou at K=2. The barplot is based on the STRUCTURE analysis.

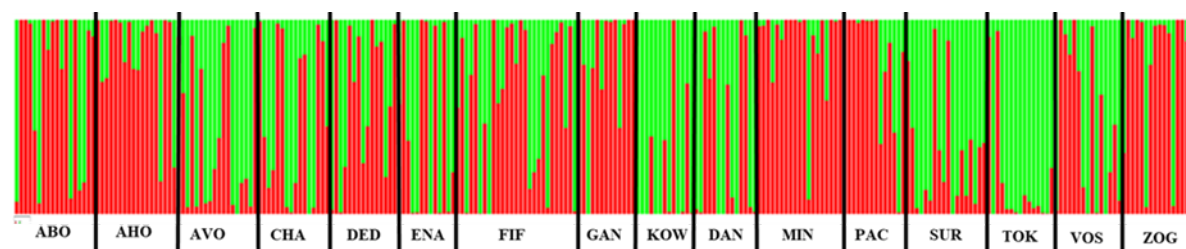


Figure S4: Graphical representation of the genetic affiliation of each of the individuals in our sample from the DAPC.

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Table S5: Number of individuals (N1: captured, N: genotyped), diversity estimators (A, H_O & H_E) and F_{IS} on the dataset 1

Sites	Population	N1	N2	A	H _O	H _E	F _{IS}	AI
Abokicodji	ABO	44	20	1.59	0.564	0.594	0.052	0
Adogleta	ADO	5	5	1.61	0.522	0.61	0.16	2
Agbato	AGB	11	10	1.62	0.5	0.621	0.203	0
Agontinkon	AGO	9	7	1.56	0.563	0.556	-0.014	2
Ahouansori Agué	AHO	23	20	1.6	0.656	0.595	-0.104	2
Aïbatin	AIB	11	7	1.38	0.476	0.377	-0.290	0
ASECNA	ASE	7	6	1.43	0.444	0.431	-0.034	0
Avotrou	AVO	71	20	1.59	0.565	0.589	0.043	1
Bokossi Tokpa	BOK	9	9	1.65	0.594	0.65	0.093	0
Chankpamè	CHA	42	17	1.6	0.55	0.599	0.083	4
Dédokpo	DED	25	16	1.56	0.538	0.559	0.038	4
Djidjè	DJI	7	5	1.63	0.489	0.626	0.240	0
Enagnon	ENA	23	17	1.54	0.474	0.536	0.119	1
Fidjrossè	FID	14	6	1.61	0.639	0.612	-0.049	0
Fifadji	FIF	41	37	1.59	0.492	0.587	0.164	4
Finagnon	FIN	10	9	1.58	0.519	0.582	0.115	2
Gankpodo	GAN	27	19	1.54	0.535	0.545	0.018	1
Gbadji	GBA	23	2	1.6	0.528	0.602	0.174	0
Godomey	GOD	74	14	1.53	0.556	0.529	-0.051	1
Haie-Vive	HAI	8	2	1.56	0.333	0.556	0.5	0
Houénossou	HOU	2	1	1.67	0.667	0.667	-	0
Houéyiho	HOH	3	1	1.39	0.389	0.389	-	1
Jésus Eucharistie	JES	2	2	1.69	0.75	0.685	-0.149	0
Kowégbo	KOW	36	20	1.53	0.478	0.53	0.102	1

Sites	Population	N1	N2	A	H_O	H_E	F_{IS}	AI
Kpankpan	KPA	5	1	1.5	0.5	0.5	-	0
Ladji	LAD	3	2	1.63	0.583	0.63	0.106	0
Marché Dantokpa	DAN	24	20	1.55	0.526	0.55	0.045	1
Maro Militaire	MAR	6	4	1.58	0.569	0.575	0.012	0
Minonchou	MIN	25	20	1.59	0.559	0.592	0.056	0
Minonkpo	MIK	1	1	1.56	0.556	0.556	-	1
PAC	PAC	23	23	1.58	0.464	0.585	0.210	4
Quartier Jacques	JAC	12	12	1.57	0.565	0.569	0.008	2
Saint Jean	JEA	8	8	1.56	0.5	0.563	0.119	3
Sèdami	SED	4	4	1.62	0.625	0.619	-0.011	1
Sodjatinmin	SOD	7	7	1.53	0.517	0.526	0.013	2
Suru-Léré	SUR	39	20	1.61	0.506	0.611	0.176	0
Tokpa Hoho	TOK	20	17	1.52	0.517	0.522	0.010	1
Vossa Kpodji	VOS	56	18	1.59	0.602	0.592	-0.017	2
Wlacodji	WLA	24	9	1.6	0.568	0.599	0.055	5
Zogbohouè	ZOG	55	19	1.55	0.511	0.554	0.080	1
		839	457	1.57	0.54	0.57	0.06	

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Figure S6: Summary of Loiselle coefficients in each dataset.

