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Selection for Duration of Fertility and Mule Duck White Plumage Colour in a Synthetic Strain of Ducks (*Anas platyrhynchos*)

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- Supplementary Data -

TABLE OF CONTENTS

Supplementary Table S1.....	2
Supplementary Table S1.....	3
Supplementary Table S3.....	3

Supplementary Table S1. The experimental population for the selection on the duration of fertility in the synthetic strain

Generation	Strain	Dates of hatch	Ducks	Parents	Selected %
G0		2002		M=3(Tsaiya) F=6 M=3(Pekin) F=6	
G1	TxP	9/12/2002	M=21	M=3	14.3
		10/01/2002	F=42	F=18	42.9
	PxT	9/12/2002	M=19	M=3	15.8
		10/01/2002	F=20	F=16	80.0
G2	TPxTP	10/20/2003	M=48		
		11/17/2003	F=381		
		12/15/2003			
	PTxPT	01/12/2004		M=10	12.3
		10/20/2003	M=33	F=27	3.8
		11/17/2003	F=332		
G3	S	12/26/2005-02/24/2006	M=39	M=11	28.2
			F=127	F=50	39.4
G4	S	23/09/2006-14/10/2006	M=87	M=12	13.8
			F=236	F=58	24.6
G5	S	01/26/2007-23/02/2007	M=105	M=12	11.4
			F=247	F=55	22.3
G6	S	10/05/2008-24/05/2008	M=93	M=12	12.9
			F=194	F=56	28.9
G7	S	12/21/2009-01/11/2010	M=102	M=12	11.8
			F=244	F=57	23.4
G8	S	12/08/2010-12/29/2010	M=160	M=13	8.1
			F=249	F=57	22.9
G9	S	11/23/2011-12/12/2011	M=157	M=12	7.6
			F=208	F=59	28.4
G10	S	11/05/2012-11/26/2012	M=166	M=12	7.2
			F=261	F=60	23.0
Total			M=1030 F=2541	M=118 F=525	

M : number of males; F : number of females.; S : synthetic strain

Supplementary Table S2. Mean of inbreeding coefficients in male and female ducks of synthetic strain ducks for each generation

Generation	Male	Female
G1	0	0
G2	0	0
G3	0.055±0.061	0.058±0.058
G4	0.071±0.032	0.070±0.029
G5	0.087±0.029	0.089±0.028
G6	0.103±0.020	0.105±0.020
G7	0.119±0.018	0.122±0.018
G8	0.134±0.040	0.134±0.038
G9	0.149±0.029	0.147±0.028
G10	0.166±0.024	0.164±0.023

Supplementary Table S3. The means and standard deviation (SD) of the feather grade of mule ducklings from G4 to G10 of synthetic strain of ducks

Generation	Feather grade
G1	-
G2	-
G3	-
G4	5.6 ± 4.0
G5	5.9 ± 4.2
G6	5.4 ± 4.1
G7	3.7 ± 2.5
G8	3.6 ± 2.3
G9	3.7 ± 3.3
G10	3.0 ± 2.7