

1 **Supplementary materials for:**
2 **Phenotypic divergence despite low genetic differentiation in House Sparrow populations**

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9 **Supplementary Tables S1-S3**

10 **Supplementary Figure S4**

11 **Supplementary Table S1:**

12 Summary of mean (\pm SD) values of all morphological and color brightness traits measured in this
 13 study, by region. Traits which showed significant differences between sexes are presented for
 14 each sex separately.

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		Eilat (n = 174)	Negev (n = 153)	Center (n = 139)	North (n = 226)
Mass (g)		24.4 \pm 2.3	27.3 \pm 2.7	28.5 \pm 2.7	29.0 \pm 3.2
Tarsus Length (mm)		21.4 \pm 0.8	21.9 \pm 0.9	21.8 \pm 1.0	22.0 \pm 1.2
Bill Length (mm)		12.4 \pm 0.8	13.0 \pm 0.8	12.8 \pm 0.7	13.0 \pm 0.8
Wing Length (mm)	Males	76.8 \pm 2.3	79.4 \pm 2.1	80.4 \pm 2.5	80.4 \pm 1.9
	Females	74.6 \pm 2.3	76.8 \pm 1.7	77.5 \pm 1.6	77.6 \pm 2.0
Bill Width (mm)	Males	7.3 \pm 0.3	7.4 \pm 0.3	7.5 \pm 0.3	7.4 \pm 0.3
	Females	7.1 \pm 0.3	7.2 \pm 0.3	7.2 \pm 0.2	7.2 \pm 0.3
Color Brightness (0.0-1.0 scale)	Right Cheek	0.522 \pm 0.06	0.458 \pm 0.06	0.438 \pm 0.05	0.437 \pm 0.05
	Left Cheek	0.513 \pm 0.06	0.448 \pm 0.06	0.416 \pm 0.05	0.436 \pm 0.05
	Belly	0.704 \pm 0.05	0.695 \pm 0.04	0.651 \pm 0.05	0.631 \pm 0.06

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18 **Supplementary Table S2:**

19 Statistics for morphological traits which differed between sexes.

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	Males	Females
ANOVA		
Wing length	$F_{1,387} = 180.2, P < 0.001$	$F_{3,289} = 34.5, P < 0.001$
Bill Width	$F_{3,236} = 3.5, P = 0.1$	$F_{3,184} = 0.6, P = 1$
Regression		
Wing length	$F_{1,386} = 180.2, r^2 = 0.316,$ $P < 0.001$	$F_{1,291} = 74.3, r^2 = 0.2,$ $P < 0.001$
Bill Width	$F_{1,238} = 9.2, r^2 = 0.03, P < 0.01$	$F_{1,186} = 0.8, r^2 = 0, P = 0.37$

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32 **Supplementary Table S3:**

33 Summary of ten nuclear microsatellite markers used and corresponding PCR conditions.

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Multi-plex	Marker	Primer sequence (5'-3')	Repeat motif	Fragment size (bp)	Annealing (35 Cycles)	MgSO ₄ (μL)	DNA Template (μL)	Fluorescent Dye
1	CAM01	AAAGGCCAAG <u>R</u> CCAGTATG	CA	297-330	56°C, 1 min	3	3	6-FAM
	CAM10	TATCC <u>M</u> GAGAATGGGCATC	GT	173-206	56°C, 1 min	1.7	2	NED
	CAM15	<u>S</u> GACGACTCCTTTATTTCCC	GA	258-275	56°C, 1 min	1.7	3	ROX
	Pdo5	GATGTTGCAGTGACCTCTCTTG	CA	200-262	58°C, 30 sec	3.5	3	VIC
2	CAM02	GAATTAAGAG <u>Y</u> AGCAGATGCAGG	CA	339-357	54°C, 30 sec	2	3	ROX
	CAM20	TAACAGGCAGGAATGCAGG	AT	181-195	58°C, 1 min	1.6	3	NED
	Pdo8	ACGCCTCTGCCCAAATGAGACC	GA	162-231	66-55°C, 30 sec TD; 30 cycles 55°C.	1.8	3	6-FAM
3	CAM05	TTACACAGACTGCAAACCGC	CA	188-225	56°C, 1 min	1.6	3	VIC
	CAM17	CGGGTTGTAATCAAGAAGATGC	TG	203-208	56°C, 30 sec	3	2	ROX
	Pdo1	TCTGGGCTGTTGCTATCAGAAGGA	(G)6(TG)23	150-203	58°C, 30 sec	1.8	2	6-FAM

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36 **Supplementary Figure S4:**

37 (a) An outside view of the tent in one of the sampled localities, and (b) a look on the arena from
38 above as captured on the GoPro camera during an assay. Novel items are presented on the
39 perches: (c) green fabric ribbon, (d) two soft toy balls, and (e) a shiny party ribbon.

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