Horton et al. (2020). Vasoactive intestinal peptide as a mediator of the effects of a supergene on social behavior. Proc. Roy. Soc. Lond. B, 10.1098/rspb.2020.0196

ID	MPH	SEX	MSEX	STAGE	Year	Date	Julian Day	Season Day	T	SQRT (T)	DHT	SQRT (DHT)	E2	SQRT (E2)	Mean STI Songs	SQRT(ST I SONGS)	D5-6 Mean Trips/hr	SQRT (TRIPS)	D5-6 Mean Songs/hr	SQRT(Parent Songs)	VIP ISH RUN	VIP: AH MCGV	SQRT(AH VIP)	Norm AH VIP	VIP: INF MCGV	SQRT(INF VIP)	Norm INF VIP
23558	TS	F	TSF	Early	2	5/23/11	39224	11	1.02	1.01	1.25	1.12	0.12	0.35	13.5	3.67	.	.	.	.	3	30.07	5.48	0.91	72.37	8.51	1.26
23560	TS	F	TSF	Early	2	5/13/11	39214	1	0.26	0.51	0.54	0.74	0.11	0.33	0	0.00	.	.	.	.	3	11.59	3.40	0.35	53.93	7.34	0.94
TSF 10-01	TS	F	TSF	Early	1	5/21/10	38857	9	0.47	0.69	0.30	0.55	0.11	0.33	0	0.00	.	.	.	.	1	28.61	5.35	0.87	.	.	.
TSF 10-02	TS	F	TSF	Early	1	5/20/10	38856	8	0.20	0.45	0.30	0.55	0.35	0.59	3	1.73	.	.	.	.	3	30.94	5.56	0.94	51.98	7.21	0.90
TSF 10-03	TS	F	TSF	Early	1	5/23/10	38859	11	0.18	0.42	0.30	0.55	0.11	0.33	0	0.00	.	.	.	.	3	32.43	5.69	0.99	.	.	.
TSF 10-04	TS	F	TSF	Early	1	5/27/10	38863	15	0.09	0.30	0.30	0.55	0.17	0.41	0	0.00	.	.	.	.	3	27.48	5.24	0.84	86.47	9.30	1.50
TSF 11-01	TS	F	TSF	Early	2	5/26/11	39227	14	0.32	0.56	0.30	0.55	0.15	0.39	5.5	2.35	.	.	.	.	3	24.32	4.93	0.74	49.99	7.07	0.87
23543	WS	F	WSF	Early	2	5/13/11	39214	1	0.29	0.53	0.39	0.62	0.15	0.39	12.5	3.54	.	.	.	.	3	42.68	6.53	1.30	41.91	6.47	0.73
23555	WS	F	WSF	Early	2	5/13/11	39214	1	0.20	0.45	0.90	0.95	0.60	0.77	23.5	4.85	.	.	.	.	3	32.28	5.68	0.98	54.13	7.36	0.94
23562	WS	F	WSF	Early	2	5/26/11	39227	14	0.28	0.53	0.27	0.52	0.41	0.64	15	3.87	.	.	.	.	3	35.21	5.93	1.07	60.73	7.79	1.05
WSF 10-01	WS	F	WSF	Early	1	5/20/10	38856	8	0.65	0.80	0.30	0.55	0.17	0.41	8	2.83	.	.	.	.	3	50.45	7.10	1.53	51.72	7.19	0.90
WSF 10-02	WS	F	WSF	Early	1	5/26/10	38862	14	0.84	0.92	0.44	0.66	0.45	0.67	0	0.00	.	.	.	.	3	46.08	6.79	1.40	43.61	6.60	0.76
WSF 11-01	WS	F	WSF	Early	2	5/29/11	39230	17	0.16	0.40	0.30	0.55	0.11	0.33	0	0.00	.	.	.	.	3	35.55	5.96	1.08	66.39	8.15	1.15
23531	TS	F	TSF	Nest	1	06/12/10	38879	2	0.08	0.28	0.30	0.55	0.16	0.40	.	.	9.55	3.09	.	.	6	25.80	5.08	0.66	61.28	7.83	1.12
23537	TS	F	TSF	Nest	1	07/07/10	38904	27	0.16	0.39	0.30	0.55	0.11	0.33	.	.	5.43	2.33	.	.	7	29.97	5.47	0.76	52.19	7.22	0.95
23591	TS	F	TSF	Nest	2	07/10/11	39272	30	0.50	0.71	0.91	0.95	1.23	1.11	.	.	7.77	2.79	.	.	7	31.32	5.60	0.80	56.62	7.52	1.03
TSF 10-05	TS	F	TSF	Nest	1	07/05/10	38902	25	0.26	0.51	0.53	0.73	0.32	0.57	.	.	3.02	1.74	.	.	6	34.28	5.86	0.87	47.41	6.89	0.87
TSF 11-02	TS	F	TSF	Nest	2	06/12/11	39244	2	0.14	0.38	0.30	0.55	0.36	0.60	.	.	5.14	2.27	.	.	7	48.29	6.95	1.23	55.22	7.43	1.01
TSF 11-03	TS	F	TSF	Nest	2	06/16/11	39248	6	0.15	0.39	0.30	0.55	0.17	0.41	.	.	11.73	3.42	.	.	6	30.53	5.53	0.78	52.93	7.28	0.97
TSF 11-04	TS	F	TSF	Nest	2	06/23/11	39255	13	0.11	0.34	0.30	0.55	0.12	0.35	.	.	5.28	2.30	.	.	7	32.26	5.68	0.82	54.37	7.37	0.99
TSF 11-05	TS	F	TSF	Nest	2	07/06/11	39268	26	0.11	0.33	0.30	0.55	0.28	0.53	.	.	5.16	2.27	.	.	6	36.76	6.06	0.94	51.90	7.20	0.95
TSF 11-06	TS	F	TSF	Nest	2	07/23/11	39285	43	0.11	0.33	0.30	0.55	0.17	0.41	.	.	6.95	2.64	.	.	6	32.36	5.69	0.82	50.11	7.08	0.92
23538	WS	F	WSF	Nest	2	07/10/11	39272	30	0.11	0.33	0.30	0.55	0.11	0.33	.	.	7.60	2.76	.	.	7	37.82	6.15	0.96	52.69	7.26	0.96
23573	WS	F	WSF	Nest	2	06/16/11	39248	6	0.15	0.39	0.29	0.54	0.17	0.41	.	.	3.74	1.93	.	.	7	50.63	7.12	1.29	63.73	7.98	1.16
23586	WS	F	WSF	Nest	2	06/13/11	39245	3	0.11	0.33	0.30	0.55	0.11	0.33	.	.	3.27	1.81	.	.	6	49.37	7.03	1.26	54.30	7.37	0.99
WSF 10-03	WS	F	WSF	Nest	1	06/17/10	38884	7	0.47	0.69	0.30	0.55	0.14	0.37	.	.	6.66	2.58	.	.	7	28.77	5.36	0.73	.	.	.
WSF 10-04	WS	F	WSF	Nest	1	07/03/10	38900	23	0.14	0.37	0.30	0.55	0.11	0.33	.	.	2.18	1.48	.	.	6	49.57	7.04	1.26	55.05	7.42	1.01
WSF 11-02	WS	F	WSF	Nest	2	06/11/11	39243	1	0.20	0.45	0.30	0.55	0.11	0.33	.	.	8.64	2.94	.	.	7	47.12	6.86	1.20	56.70	7.53	1.04
WSF 11-03	WS	F	WSF	Nest	2	06/13/11	39245	3	0.11	0.33	0.30	0.55	0.11	0.33	.	.	6.66	2.58	.	.	7	36.70	6.06	0.93	55.24	7.43	1.01
WSF 11-04	WS	F	WSF	Nest	2	06/15/11	39247	5	0.71	0.84	0.98	0.99	0.34	0.58	.	.	4.78	2.19	.	.	6	45.27	6.73	1.15	57.95	7.61	1.06
WSF 11-05	WS	F	WSF	Nest	2	06/24/11	39256	14	0.11	0.33	0.30	0.55	0.11	0.33	.	.	7.79	2.79	.	.	6	44.88	6.70	1.14	59.86	7.74	1.09
WSF 11-06	WS	F	WSF	Nest	2	07/11/11	39273	31	0.14	0.37	0.23	0.48	0.36	0.60	.	.	8.28	2.88	.	.	6	40.76	6.38	1.04	46.75	6.84	0.85
WSF 11-07	WS	F	WSF	Nest	2	07/18/11	39280	38	0.23	0.48	0.43	0.65	0.11	0.33	.	.	6.47	2.54	.	.	7	53.14	7.29	1.35	55.16	7.43	1.01
23504	TS	M	TSM	Early	1	5/17/10	38853	5	3.58	1.89	0.60	0.77	0.10	0.32	1	1.00	.	.	.	.	2	30.71	5.54	0.87	50.64	7.12	0.86
23508	TS	M	TSM	Early	1	5/15/10	38851	3	6.48	2.54	1.84	1.36	0.59	0.77	11	3.32	.	.	.	.	1	19.27	4.39	0.55	46.69	6.83	0.80
23514	TS	M	TSM	Early	1	5/25/10	38861	13	0.76	0.87	0.30	0.55	0.11	0.33	15	3.87	.	.	.	.	2	37.64	6.14	1.07	58.44	7.64	1.00
23515	TS	M	TSM	Early	1	5/15/10	38851	3	8.71	2.95	1.65	1.28	0.11	0.33	17	4.12	.	.	.	.	1	34.73	5.89	0.99	37.03	6.09	0.63
23519	TS	M	TSM	Early	1	5/20/10	38856	8	10.84	3.29	3.24	1.80	0.11	0.33	4.5	2.12	.	.	.	.	2	20.14	4.49	0.57	62.49	7.90	1.07
23523	TS	M	TSM	Early	1	5/26/10	38862	14	0.37	0.61	0.74	0.86	0.11	0.33	12.5	3.54	.	.	.	.	1	20.13	4.49	0.57	50.18	7.08	0.86
23542	TS	M	TSM	Early	2	5/13/11	39214	1	5.44	2.33	0.95	0.98	0.17	0.41	12	3.46	.	.	.	.	2	39.37	6.27	1.12	50.39	7.10	0.86
23553	TS	M	TSM	Early	2	5/29/11	39230	17	2.30	1.52	1.00	1.00	0.76	0.87	.	.	.	.	.	.	1	30.90	5.56	0.88	58.76	7.67	1.00
23557	TS	M	TSM	Early	2	5/13/11	39214	1	2.38	1.54	0.51	0.71	0.12	0.35	2.5	1.58	.	.	.	.	1	22.97	4.79	0.65	72.57	8.52	1.24
23563	TS	M	TSM	Early	2	5/26/11	39227	14	1.03	1.02	0.35	0.59	0.11	0.33	27.5	5.24	.	.	.	.	2	28.16	5.31	0.80	65.14	8.07	1.11
23566	TS	M	TSM	Early	2	5/23/11	39224	11	1.72	1.31	0.77	0.88	0.11	0.33	12.5	3.54	.	.	.	.	2	35.92	5.99	1.02	49.70	7.05	0.85
TSM 10-01	TS	M	TSM	Early	1	5/27/10	38863	15	1.57	1.25	0.27	0.52	0.19	0.43	16	4.00	.	.	.	.	2	44.67	6.68	1.27	67.35	8.21	1.15
23501	WS	M	WSM	Early	1	5/15/10	38851	3	7.55	2.75	1.77	1.33	0.16	0.40	9.5	3.08	.	.	.	.	2	41.49	6.44	1.18	70.66	8.41	1.21
23503	WS	M	WSM	Early	1	5/21/10	38857	9	1.61	1.27	1.37	1.17	0.67	0.82	39	6.24	.	.	.	.	1	62.82	7.93	1.79	64.68	8.04	1.10
23506	WS	M	WSM	Early	2	5/26/11	39227	14	15.59	3.95	3.06	1.75	0.08	0.29	31.5	5.61	.	.	.	.	2	32.13	5.67	0.91	67.98	8.25	1.16
23509	WS	M	WSM	Early	1	5/23/10	38859	11	0.91	0.96	0.28	0.53	0.23	0.47	21	4.58	.	.	.	.	2	43.74	6.61	1.25	50.65	7.12	0.87
23510	WS	M	WSM	Early	1	5/20/10	38856	8	1.07	1.03	0.30	0.55	0.11	0.33	8.5	2.92	.	.	.	.	2	40.21	6.34	1.15	53.37	7.31	0.91
23511	WS	M	WSM	Early	1	5/15/10	38851	3	9.62	3.10	2.21	1.49	0.10	0.32	15	3.87	.	.	.	.	1	45.19	6.72	1.29	56.22	7.50	0.96
23517	WS	M	WSM	Early	1	5/17/10	38853	5	1.28	1.13	0.34	0.58	0.19	0.44	15.5	3.94	.	.	.	.	2	29.84	5.46	0.85	64.79	8.05	1.11
23524	WS	M	WSM	Early	1	5/27/10	38863	15	1.89	1.38	0.48	0.70	0.35	0.59	12.5	3.54	.	.	.	.	1	27.85	5.28	0.79	73.71	8.59	1.26
23525	WS	M	WSM	Early	1	5/25/10	38861	13	2.53	1.59	0.42	0.65	0.35	0.59	9.5	3.08	.	.	.	.	1	36.71	6.06	1.05	56.19	7.50	0.96
23528	WS	M	WSM	Early	2	5/26/11	39227	14	3.64	1.91	1.59	1.26	0.40	0.63	41	6.40	.	.	.	.	1	43.55	6.60	1.24	58.99	7.68	1.01
23551	WS	M	WSM	Early	2	5/13/11	39214	1	5.07	2.25	0.31	0.55	0.05	0.23	27.5	5.24	.	.	.	.	1	40.02	6.33	1.14	62.36	7.90	1.07
23559	WS	M	WSM	Early	2	5/23/11	39224	11	4.44	2.11	1.24	1.12	0.11	0.33	29	5.39	.	.	.	.	2	32.20	5.67	0.92	47.96	6.92	0.82
23561	WS	M	WSM	Early	2	5/13/11	39214	1	9.21	3.03	1.48	1.22	0.38	0.61	27	5.20	.	.	.	.	1	37.47	6.12	1.07	66.72	8.17	1.90
23505	TS	M	TSM	Nest	1	07/03/10	38900	23	0.18	0.43	0.30	0.55	0.11	0.33	.	.	6.85	2.62	0.00	0.00	4	16.71	4.09	0.62	50.33	7.09	1.07
23532	TS	M	TSM	Nest	2	06/14/11	39246	4	4.04	2.01	0.71	0.85	0.36	0.60	.	.	5.94	2.44	0.16	0.40	4	23.44	4.84	0.87	63.19	7.95	1.35
23533	TS	M	TSM	Nest	2	06/13/11	39245	3	0.74	0.86	0.30	0.55	0.43	0.66	.	.	.	.	.	.	5	20.27	4.50	0.75	54.24	7.36	1.15
23547	TS	M	TSM	Nest	2	07/11/11	39273	31	0.28	0.53	0.58	0.76	0.17	0.41	.	.	5.55	2.36	0.00	0.00	4	27.04	5.20	1.00	49.98	7.07	1.06
23554	TS	M	TSM	Nest	2	06/11/11	39243	1	0.63	0.79	0.33	0.58	0.12	0.34	.	.	4.44	2.11	.	.	5	21.82	4.67	0.81	48.98	7.00	1.04
23569	TS	M	TSM	Nest	2	06/15/11	39247	5	1.93	1.39	0.58	0.76	0.11	0.33	.	.	4.54	2.13	0.00	0.00	4	25.66	5.07	0.95	53.57	7.32	1.14
23574	TS	M	TSM	Nest	2	06/16/11	39248	6	3.21	1.79	0.30	0.55	0.11	0.33	.	.	6.50	2.55	0.00	0.00	5	17.13	4.14	0.64	45.79	6.77	0.97
TSM 10-02	TS	M	TSM	Nest	1	06/17/10	38884	7	2.41	1.55	0.30	0.55	0.11	0.33	.	.	6.52	2.55	4.62	2.15	5	19.62	4.43	0.73	47.79	6.91	1.02
TSM 11-01	TS	M	TSM	Nest	2	06/13/11	39245	3	1.33	1.15	0.30	0.55	0.11	0.33	.	.	7.81	2.79	0.00	0.00	5	17.41	4.17	0.65	47.03	6.86	1.00
TSM 11-02	TS	M	TSM	Nest	2	07/18/11	39280	38	0.17	0.41	0.23	0.48	0.29	0.54	.	.	9.96	3.16	0.00	0.00	4	21.82	4.67	0.81	50.43	7.10	1.07
TSM 11-OBR	TS	M	TSM	Nest	2	06/24/11	39256	14	6.56	2.56	0.93	0.96	0.09	0.31	.	.	5.26	2.29	.	.	4	27.48	5.24	1.02	50.57	7.11	1.08
23530	WS	M	WSM	Nest	1	06/12/10	38879	2	4.97	2.23	0.66	0.81	0.17	0.41	.	.	6.12	2.47	23.71	4.87	4	27.03	5.20	1.00	41.16	6.42	0.88
23534	WS	M	WSM	Nest	2	06/12/11	39244	2	5.98	2.45	0.81	0.90	0.12	0.35	.	.	3.43	1.85	1.71	1.31	5	29.83	5.46	1.11	44.78	6.69	0.95
23535	WS	M	WSM	Nest	1	07/05/10	38902	25	0.88	0.94	0.30	0.55	0.11	0.33	.	.	.	.	.	.	5	34.66	5.89	1.29	45.23	6.73	0.96
23536	WS	M	WSM	Nest	2	07/10/11	39272	30	2.12	1.46	0.33	0.58	0.09	0.31	.	.	7.76	2.79	.	.	4	34.94	5.91	1.30	38.45	6.20	0.82
23571	WS	M	WSM	Nest	2	06/23/11	39255	13	5.96	2.44	1.05	1.03	0.35	0.59	.	.	3.14	1.77	9.17	3.03	5	26.63	5.16	0.99	46.37	6.81	0.99
23575	WS	M	WSM	Nest	2	06/16/11	39248	6	4.69	2.17	2.11	1.45	0.19	0.44	.	.	3.44	1.85	10.88	3.30	4	45.53	6.75	1.69	52.31	7.23	1.11
23590	WS	M	WSM	Nest	2	07/06/11	39268	26	0.33	0.57	0.30	0.55	0.11	0.33	.	.	5.67	2.38	0.00	0.00	5	28.20	5.31	1.05	41.64	6.45	0.89
23592	WS	M	WSM	Nest	2	07/23/11	39285	43	0.37	0.61	0.36	0.60	0.22	0.47	.	.	6.33	2.51	.	.	4	28.63	5.35	1.06	41.01	6.40	0.87
WSM 10-01	WS	M	WSM	Nest	1	07/07/10	38904	27	0.11	0.33	0.30	0.55	0.11	0.33	.	.	7.17	2.68	0.66	0.81	4	45.23	6.73	1.68	35.57	5.96	0.76
WSM 11-01	WS	M	WSM	Nest	2	07/10/11	39272	30	0.25	0.50	0.30	0.55	0.11	0.33	.	.	6.25	2.50	0.00	0.00	5	26.74	5.17	0.99	37.90	6.16	0.81

Abbreviation	**Meaning**
MPH	plumage color morph; WS=white-striped, TS = tan-striped
MSEX	morph and sex
STAGE	early breeding (before incubation) or during nesting stage (feeding nestlings)
Year 1 or 2	Year 1 is 2010, Year 2 is 2011
T	plasma testosterone, ng/ml
DHT	plasma dihydrotestosterone, ng/ml
E2	plasma estradiol, ng/ml
STI songs	songs given during a 10-min simulated territorial intrusion
trips	number of provisioning trips made by parents to nestlings
songs	songs given by parental males, as heard in parental videos
ISH	in situ hybridization
MCGV	Mean Corrected Grey Value across sections and hemispheres
Norm	MCGV data normalized to the series mean