CORRECTION

Correction: Chemosensory Gene Families in Adult Antennae of *Anomala corpulenta* Motschulsky (Coleoptera: Scarabaeidae: Rutelinae)

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There is an error in the final sentence of the GRs sub-subsection of the Receptor encoding genes families subsection within the Results section. The value DmelGR63a should be DmelGR21a. The correct sentence is as follows: AcorGR3 represented an ortholog to TcasGR1, DponGR1 and DmelGR63a. AcorGR4 was the orthologous receptor of TcasGR3, ItypGR3, DponGR3 and DmelGR21a (S4 Fig).

Additionally, in [Table 2](#), the values AcorGR1 and AcorGR3 were swapped in the first column. Please see the corrected [Table 2](#) here.

OPEN ACCESS

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Table 2. BLASTP matches for the putative ORs, GRs, and IRs of *A. corpulenta*.

Gene Name	Acc. number	ORF Length (aa)	Complete ORF	TMD (NO)	Best Blastp Match				
					Name	Acc. number	Species	E value	Identity (%)
AcorOrco	KM251654	447	Y	7	Or83b	AEG88961.1	<i>Holotrichia parallela</i>	0	90
AcorOR1	KM251655	427	Y	2	OR 167	EFA02801.1	<i>Tribolium castaneum</i>	4E-42	28
AcorOR2	KM251656	436	Y	6	OR14	CAM84012.1	<i>Tribolium castaneum</i>	1E-94	40
AcorOR3	KM251657	392	Y	7	OR37	EEZ99229.1	<i>Tribolium castaneum</i>	4E-43	28
AcorOR4	KM251658	379	Y	7	OR58	EEZ99414.1	<i>Tribolium castaneum</i>	8E-44	29
AcorOR5	KM251659	403	N	7	OR64	EFA10800.1	<i>Tribolium castaneum</i>	3E-62	33
AcorOR6	KM251660	379	Y	7	PREDICTED: similar to odorant receptor 41	XP_972901.1	<i>Tribolium castaneum</i>	1E-38	30
AcorOR7	KM251661	402	Y	8	OR14	CAM84012.1	<i>Tribolium castaneum</i>	1E-32	26
AcorOR8	KM251662	395	Y	4	OR110	EFA09299.1	<i>Tribolium castaneum</i>	1E-33	27
AcorOR9	KM251663	381	Y	7	PREDICTED: similar to odorant receptor 41	XP_972901.1	<i>Tribolium castaneum</i>	3E-48	31
AcorOR10	KM251664	416	Y	7	OR64	EFA10800.1	<i>Tribolium castaneum</i>	5E-79	34
AcorOR11	KM251665	383	Y	4	OR110	EFA09299.1	<i>Tribolium castaneum</i>	4E-30	25
AcorOR12	KM251666	441	Y	7	OR14	CAM84012.1	<i>Tribolium castaneum</i>	6E-75	38
AcorOR13	KM251667	446	Y	7	OR14	CAM84012.1	<i>Tribolium castaneum</i>	1E-79	39
AcorOR14	KM251668	411	Y	7	OR64	EFA10800.1	<i>Tribolium castaneum</i>	1E-78	36
AcorOR15	KM251669	405	Y	6	OR41	EEZ99227.1	<i>Tribolium castaneum</i>	6E-52	29
AcorOR16	KM251670	448	Y	7	OR14	CAM84012.1	<i>Tribolium castaneum</i>	9E-63	32
AcorOR17	KM251671	385	Y	5	OR67	EEZ97776.1	<i>Tribolium castaneum</i>	1E-54	31
AcorOR18	KM251672	373	Y	5	OR108	EFA09139.1	<i>Tribolium castaneum</i>	3E-31	24
AcorOR19	KM251673	376	Y	2	OR41	EEZ99227.1	<i>Tribolium castaneum</i>	2E-37	28
AcorOR20	KM251674	375	Y	6	OR61	EEZ99416.1	<i>Tribolium castaneum</i>	7E-57	33
AcorOR21	KM251675	381	Y	6	OR111	EFA09138.1	<i>Tribolium castaneum</i>	6E-27	24
AcorOR22	KM251676	410	Y	5	OR167	EFA02801.1	<i>Tribolium castaneum</i>	2E-51	29
AcorOR23	KM251677	381	Y	7	OR61	EEZ99416.1	<i>Tribolium castaneum</i>	1E-41	31
AcorOR24	KM251678	374	N	6	OR78	EFA10778.1	<i>Tribolium castaneum</i>	3E-28	24

(Continued)

Table 2. (Continued)

Gene Name	Acc. number	ORF Length (aa)	Complete ORF	TMD (NO)	Best Blastp Match				
					Name	Acc. number	Species	E value	Identity (%)
AcorOR25	KM251679	411	Y	5	OR167	EFA02801.1	<i>Tribolium castaneum</i>	3E-37	26
AcorOR26	KM251680	413	Y	3	OR167	EFA02801.1	<i>Tribolium castaneum</i>	3E-45	30
AcorOR27	KM251681	372	N	7	OR167	EFA02801.1	<i>Tribolium castaneum</i>	5E-38	29
AcorOR28	KM251682	384	Y	7	OR59	EEZ99171.1	<i>Tribolium castaneum</i>	9E-51	31
AcorOR29	KM251683	386	Y	7	OR58	EEZ99414.1	<i>Tribolium castaneum</i>	2E-28	26
AcorOR30	KM251684	411	Y	5	OR167	EFA02801.1	<i>Tribolium castaneum</i>	3E-46	27
AcorOR31	KM251685	202	N	3	OR84	EFA10775.1	<i>Tribolium castaneum</i>	3e-26	35
AcorOR32	KM251686	184	N	2	OR112	EFA09271.1	<i>Tribolium castaneum</i>	1e-14	28
AcorOR33	KM251687	261	N	3	PREDICTED: similar to candidate odorant receptor	XP_001812261.1	<i>Tribolium castaneum</i>	2e-28	31
AcorOR34	KM251688	346	N	4	OR64	EFA10800.1	<i>Tribolium castaneum</i>	4e-42	31
AcorOR35	KM251689	223	N	2	OR108	EFA09139.1	<i>Tribolium castaneum</i>	6e-23	28
AcorOR36	KM251690	191	N	2	OR60	EEZ99415.1	<i>Tribolium castaneum</i>	8e-31	34
AcorOR37	KM251691	255	N	4	OR130	EFA02882.1	<i>Tribolium castaneum</i>	2e-13	26
AcorOR38	KM251692	256	N	4	OR127	EEZ97733.1	<i>Tribolium castaneum</i>	2e-14	27
AcorOR39	KM251693	241	N	4	OR116	EFA05716.1	<i>Tribolium castaneum</i>	1e-16	29
AcorOR40	KM251694	229	N	3	OR112	EFA09271.1	<i>Tribolium castaneum</i>	1e-21	30
AcorOR41	KM251695	408	N	6	OR167	EFA02801.1	<i>Tribolium castaneum</i>	2e-48	29
AcorOR42	KM251696	336	N	6	OR58	EEZ99414.1	<i>Tribolium castaneum</i>	5e-36	29
AcorGR3	KM251699	442	Y	6	PREDICTED: similar to Gustatory and odorant receptor 21a	XP_973273.1	<i>Tribolium castaneum</i>	0	73
AcorGR2	KM251698	437	Y	5	GR 155	EFA07633.1	<i>Tribolium castaneum</i>	1E-44	33
AcorGR1	KM251697	328	N	6	gustatory receptor candidate 24	CAL23157.2	<i>Tribolium castaneum</i>	8E-57	35
AcorGR4	KM251700	368	Y	6	PREDICTED: similar to gustatory receptor candidate 38	XP_001814661.1	<i>Tribolium castaneum</i>	8E-128	55
AcorGR5	KM251701	345	Y	7	PREDICTED: similar to trehalose receptor 1	XP_971005.2	<i>Tribolium castaneum</i>	2E-163	68
AcorGR6	KM251702	228	N	3	GR 141	EEZ97766.1	<i>Tribolium castaneum</i>	1E-12	28

(Continued)

Table 2. (Continued)

Gene Name	Acc. number	ORF Length (aa)	Complete ORF	TMD (NO)	Best Blastp Match				
					Name	Acc. number	Species	E value	Identity (%)
AcorGR7	KM251703	103	N	2	GR 7	EFA04713.1	<i>Tribolium castaneum</i>	1E-17	41
AcorGR8	KM251704	231	N	5	PREDICTED: similar to Gustatory receptor 28b CG13788-PB	XP_968269.1	<i>Tribolium castaneum</i>	1E-12	28
AcorIR21a	KM251705	749	N	3	putative chemosensory ionotropic glutamate receptor IR21a	ADR64678.1	<i>Spodoptera littoralis</i>	0	47
AcorIR41a	KM251706	594	Y	5	putative chemosensory ionotropic receptor IR41a	ADR64681.1	<i>Spodoptera littoralis</i>	3E-95	30
AcorIR75q	KM251708	617	Y	3	PREDICTED: similar to ionotropic glutamate receptor-invertebrate	XP_968638.1	<i>Tribolium castaneum</i>	5E-175	58
AcorIR75x	KM251707	597	Y	3	PREDICTED: similar to ionotropic glutamate receptor-invertebrate	XP_966388.2	<i>Tribolium castaneum</i>	2E-102	36
AcorIRx	KM251709	845	N	3	PREDICTED: similar to ionotropic glutamate receptor subunit ia	XP_974901.2	<i>Tribolium castaneum</i>	0	49

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Reference

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