

Figure S1. Requirements for responses to COU differ in different classes of sensilla. Related to Figure 2. One-way ANOVA followed by Dunnett's multiple comparison test, n = 8-28, *p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001. We note that a study of three individual S sensilla found a phenotype for 1 mM coumarin in Gr33a and Gr66a mutants, in agreement with our results, but also in a Gr93a mutant [S1].



Figure S2. Novel responses over a range of concentrations. Related to Figure 3. Purple graphs are from I-a; red graphs are from I-b; the blue graph is from S-b. n = 6-22.



В



Figure S3. The five compounds that depend on Gr39a.a all cluster together in a physicochemical tastant space. Related to Figure 4. (A) A 32-dimensional tastant space visualized by a principle component analysis. CAF, COU, THE, TPH, and UMB, depicted in red, cluster together. Four tastants are not included because the physicochemical parameters needed to map them are not available. (B) Structures of CAF, COU, THE, TPH, and UMB, containing exactly two fused rings, are depicted in red. The other mapped tastants are depicted in black.



Figure S4. Coexpression of Grs in sugar neurons. Related to Figure 5. Neither the combination of Gr33a, Gr66a, and Gr39a.a. (A), nor the combination of Gr66a, Gr39a.a and Gr93a (B), nor the combination of Gr33a, Gr39a.a, and Gr93a (C) are sufficient to confer response to the indicated bitter compounds in a sugar-sensing neuron. Neither is Gr39a.a and Gr93a, nor Gr39a.a alone sufficient (D). n = 10-13.





Figure S5. Anatomy and coding of bitter taste in labella of four Drosophila species. Related to Figure 6.
(A) Phylogenetic relationship and organization of labellar sensilla in four species. The D. melanogaster used here was Canton-S, without the w mutation contained within the genetic background control used in other experiments.
(B) Heat map of physiological responses to bitter compounds in all labellar sensilla infour species. n=3-10.



Figure S6. Regulation of the identity of I-a. Related to Figure 7. (A) Responses of S sensilla that ectopically express Gr59c. The control responses ("+") are from Figure 2. One-way ANOVA followed by Dunnett's multiple comparison test. n=10. (B) Responses of I-a in Gr59c- to the full tastant panel. Data for the control are from Figure 2. Mann-Whitney test, n=10-23. (C) Expression of Gr59c in I-b did not suppress response to these bitter compounds in Gr32a or Gr89a mutants. The control panel "+" is from Figure 2. One-way ANOVA followed by Dunnett's multiple comparison test. n=10.

Α

Target	Name	Sequence (5'-3')
Gr32a	Gr32agRNAF Gr32agRNAR	TATATAGGAAAGATATCCGGGTGAACTTC <mark>GGCCATGTCCCCGAACACTT</mark> GTTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAACT <mark>CACAACATACTTGGTAATC</mark> GACGTTAAATTGAAAATAGGTC
Gr33a	Gr33agRNAF Gr33agRNAR	TATATAGGAAAGATATCCGGGTGAACTTCGTTCACAGAGAAAAGTTATAGTTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAAC <mark>ACATAGTGCTTCGACTATGC</mark> GACGTTAAATTGAAAATAGGTC
Gr39a	Gr39agRNAF Gr39agRNAR	TATATAGGAAAGATATCCGGGTGAACTTC <mark>GGCCGCTCTGTTGGGAGCACG</mark> TTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAACCATTGTAGCCCTGGTGCTCCGACGTTAAATTGAAAATAGGTC
Gr59c	Gr59cgRNAF Gr59cgRNAR	TATATAGGAAAGATATCCGGGTGAACTTCGATCGTGTGCCAGTACTACTGTTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAACGTAACCGGCATGAATTCTACGACGTTAAATTGAAAATAGGTC
Gr66a	Gr66agRNAF Gr66agRNAR	TATATAGGAAAGATATCCGGGTGAACTTCGGCTTGTTCCTGACCTATATGTTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAACCGACCATGACACCGGCGGTCGACGTTAAATTGAAAATAGGTC
Gr89a	Gr89agRNAF Gr89agRNAR	TATATAGGAAAGATATCCGGGTGAACTTCGTTTCGGACTTCCGAGCCAAGTTTTAGAGCTAGAAATAGCAAG ATTTTAACTTGCTATTTCTAGCTCTAAAACTGGCCTGAGAAAATATCAACGACGTTAAATTGAAAATAGGTC

В

Target	Name	Sequence (5'-3')
Gr32a	Gr32aH1F Gr32aH1R	cgaaagactgggcctttcgcTGAAAATGTTTCCAATTATCCATTAAAACCTTTAATAGTTTAACTAATAAAAC attagcccggTGTTCGGGGACATGGCCAAC
Gr32a	Gr32aH2F Gr32aH2R	ccttctgcagCAACATACTTGGTAATCTTGATTC attgacggaagagcctcgagAGAAAAGCATTTGAATTGATAATTTG
Gr33a	Gr33aH1F Gr33aH1R	cgaaagactgggcctttcgcTCCCTTTCCAACCCGCGC attagcccggAACTTTTCTCTGTGAACTGCCACTAGTTTG
Gr39a	Gr39aH1F Gr39aH1R	cgaaagactgggcctttcgcAGTCGAGTTCCCCGACTTTTC attagcccggCTCCCAACAGAGCGGCCA
Gr39a	Gr39aH2F Gr39aH2R	ccttctgcagTGTAGCCCTGGTGCTCCTG attgacggaagagcctcgagATGTTCACGGTTACATTACATTACAGATCTG
Gr59c	Gr59cH1F Gr59cH1R	cgaaagactgggcctttcgcGTCGAGTTTGGCAGCAAG attagcccggACCGGCATGAATTCTACG
Gr59c	Gr59cH2F Gr59cH2R	ccttctgcagAGTACTGGCACACGATCATG attgacggaagagcctcgagGTTTCAGCCAGGTCTGGATC
Gr66a	Gr66aH1F Gr66aH1R	cgaaagactgggcctttcgcCAAAGGCACATAAACTTCAAAAGACACATTTAG attagcccggCCATGACACCGGCGGTCT
Gr66a	Gr66aH2F Gr66aH2R	ccttctgcagTAGGTCAGGAACAAGCCAATC attgacggaagagcctcgagTTGCAAAAGCTTCCAGTATAAAATTC
Gr89a	Gr89aH1F Gr89aH1R	cgaaagactgggcctttcgcCATAATCTGCAGTTTGGTGGC attagcccggCCATGGCTTCGACTCCATTTC
Gr89a	Gr89aH2F Gr89aH2R	ccttctgcagGCTCGGAAGTCCGAAACG attgacggaagagcctcgagGCTGTGATGACCAGGGAAC

С

Target	Name	Sequence (5'-3')
Gr32a	Gr32aF Gr32aR	TTTCGAGGACATTCGCACCA ACAGAACTTGCAGTACATCCCA
Gr33a	Gr33aF Gr33aR	CACTGAATCGCCAGCAATCG TCATGGTGGTGAAGCTCCAAA
Gr39a	Gr39aF Gr39aR	CGGCCAACCTGCTACTTACA GACCAGAGATCAGATCGCCC
Gr59c	Gr59cF Gr59cR	TGGCCAGTTGCAGTTGGAAG TGCAGGTGATTGGGCTCTAC
Gr66a	Gr66aF Gr66aR	GTGGTGACGAAATCACGCAG CGCGTTACGAAACCAGGGTA
Gr89a	Gr89aF Gr89aR	TCAACGAAAATTAGTCCCCTTACA CCAGCGATGGATGACCTTGA

Table S1. Oligonucleotides. Related to Figure 1. (A) Oligonucleotides used to generate gRNA vectors. Black letters indicate vector sequence; red letters indicate genomic DNA sequence. (B) Oligonucleotides used to generate donor vectors. Small letters indicate vector sequence; capital letters indicate insert sequence. (C) Oligonucleotides used to confirm Gr deletions.

TCC 0.4+0.3 1.3±0.6 0.0±0.0 0.4±0.3 0.0±0.0 0.2±0.2 0.	l-a	+	Gr32a ¹	Gr33a ²	Gr39a ¹	Gr66a ¹	Gr89a ²	Gr93a ³
STR 0.2=0.2 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 0.2=0.2 1.2=0.5 <th1.2=0.5< th=""> <th1.2=0.5< th=""> <th1.2=0< td=""><td>тсс</td><td>0.4 ± 0.3</td><td>1.3 ± 0.5</td><td>0.0 ± 0.0</td><td>0.4 ± 0.3</td><td>0.0 ± 0.0</td><td>0.2 ± 0.2</td><td>0.0 ± 0.0</td></th1.2=0<></th1.2=0.5<></th1.2=0.5<>	тсс	0.4 ± 0.3	1.3 ± 0.5	0.0 ± 0.0	0.4 ± 0.3	0.0 ± 0.0	0.2 ± 0.2	0.0 ± 0.0
Curr Curr <th< td=""><td>STR</td><td>0.2 ± 0.2</td><td>0.2 ± 0.2</td><td>1.2 ± 0.5</td><td>0.2 ± 0.2 10 ± 0.6</td><td>0.2 ± 0.2 0.2 ± 0.2</td><td>1.2 ± 0.5 0 4 + 0 3</td><td>21.3 ± 1.4 22 0 + 1 1</td></th<>	STR	0.2 ± 0.2	0.2 ± 0.2	1.2 ± 0.5	0.2 ± 0.2 10 ± 0.6	0.2 ± 0.2 0.2 ± 0.2	1.2 ± 0.5 0 4 + 0 3	21.3 ± 1.4 22 0 + 1 1
SAP 0.5 + 0.4 8.4 + 1.3 0.7 + 0.5 0.8 + 0.4 10 + 0.6 1.8 +	CUC	0.2 ± 0.2 0.2 ± 0.2	0.0 ± 0.3 0.0 ± 0.0	0.4 ± 0.3 0.0 ± 0.0	0.6 ± 0.3	0.0 ± 0.0	0.0 ± 0.0	18.4 ± 1.2
Hor USE 10.2 USE 10.2 USE 10.2 USE 10.2 USE 11.3 USE 11.3 <thuse 11.3<="" th=""> USE 11.3 U</thuse>	SAP	0.5 ± 0.4	8.4 ± 1.3	0.7 ± 0.5	0.8 ± 0.4	1.0 ± 0.5	1.6 ± 0.5	15.7 ± 2.2
CAP OB + 0.4 24 + 18 10 + 0.5 18 + 0.6 0.2 + 0.2 15 + 1.4 0.2 + 0.2 COR 10 + 0.4 <td>IPH ROT</td> <td>0.6 ± 0.4 0.6 ± 0.4</td> <td>19.2 ± 1.3 0.6 ± 0.4</td> <td>1.0 ± 0.6 1.0 ± 0.5</td> <td>0.2 ± 0.2 0.0 ± 0.0</td> <td>1.0 ± 0.4 0.0 ± 0.0</td> <td>1.0 ± 0.5</td> <td>14.0 ± 1.7</td>	IPH ROT	0.6 ± 0.4 0.6 ± 0.4	19.2 ± 1.3 0.6 ± 0.4	1.0 ± 0.6 1.0 ± 0.5	0.2 ± 0.2 0.0 ± 0.0	1.0 ± 0.4 0.0 ± 0.0	1.0 ± 0.5	14.0 ± 1.7
The 10.0.0.4 84.0.7 0.5.0.4 0.4.1.0.2 0.0.4.1.0.3 10.4.1.1 11.0.4.1.0.4 ARR 12.0.7 5.6.0.0 0.0.7.0.0 0.0.4.0.3 0.4.1.0.3 0.4.1.0.4 ARR 12.0.7 5.6.0.0 0.0.2.0.2 24.0.0 0.8.0.4 22.1.0.1 0.2.1.0.2 DEET 22.4.0.6 0.8.0.1 0.3.1.0.0 0.4.0.1 0.4.0.1 0.4.0.1 0.4.0.1 OUMD 24.1.0 0.0.1.0.0 0.4.0.1 1.1.0.6 6.8.0.9 0.0.0.0 0.0.0.0 OUND 24.1.0.0 0.1.0.0 0.4.0.1 0.3.0.1 0.3.3.1.4 0.7.0.3 28.5.1.2 0.0.0.0 0.0.0 0.0.0.0	CAF	0.6 ± 0.4	24 ± 1.6	1.0 ± 0.5	1.8 ± 0.6	0.2 ± 0.2	15.1 ± 1.3	0.2 ± 0.2
Mark 122.003 222.007 225.005 00.04.00 0.04.003 <th0.0< td=""><td>THE</td><td>1.0 ± 0.4</td><td>8.4 ± 0.7</td><td>0.5 ± 0.4</td><td>0.4 ± 0.2 0 2 + 0 2</td><td>0.9 ± 0.5 1 0 ± 0 5</td><td>10.3 ± 1.1 0.4 ± 0.3</td><td>1.5 ± 0.4 1.2 ± 0.8</td></th0.0<>	THE	1.0 ± 0.4	8.4 ± 0.7	0.5 ± 0.4	0.4 ± 0.2 0 2 + 0 2	0.9 ± 0.5 1 0 ± 0 5	10.3 ± 1.1 0.4 ± 0.3	1.5 ± 0.4 1.2 ± 0.8
ARI 12:10.7 58:10.8 00:10.0 02:10.2 28:40.4 22:41.1 02:10.2 DECU 22:30.6 38:41.1 32:30.2 34:40.5 04:40.4 82:10.0 00:10.0 DIMB 24:10 25:10.8 24:10.0 00:10.0 11:20.6 64:10.4 00:10.0 OUN 12:11.40 52:10.8 24:10.0 00:10.0 11:20.6 64:10.2 00:10.0 DER 21:61.4 11:10.6 11:10.6 21:61.4 00:10.0	MYR	1.2 ± 0.5	2.2 ± 0.7	2.5 ± 0.5	0.6 ± 0.4	0.4 ± 0.3	0.4 ± 0.3	0.4 ± 0.4
DAT 13:10.3 Date 10.4 23:10.4 33:10.3 13:10.5 13:10.3 13:10.5 14:10.5	ARI	1.2 ± 0.7	5.6 ± 0.8	0.0 ± 0.0	0.2 ± 0.2	0.8 ± 0.4	2.2 ± 1.1	0.2 ± 0.2
COU 22 ± 0.6 6.6 ± 2.1 0.2 ± 0.2 3.4 ± 0.5 0.4 ± 0.4 8.2 ± 1.0 0.0 ± 0.0 0.0 ± 0.0 CHN 12.1 ± 0.7 5.2 ± 0.8 2.8 ± 0.6 10.6 ± 0.6 3.4 ± 0.4 12.1 ± 0.7 0.3 ± 0.5 CHN 2.1 ± 0.7 5.2 ± 0.8 2.8 ± 0.6 10.6 ± 0.6 3.4 ± 0.4 12.6 ± 1.4 0.2 ± 0.1 DER 2.4 ± 0.1 1.0 ± 0.0 2.4 ± 1.6 1.2 ± 0.5 2.4 ± 1.8 0.0 ± 0.0 0.0 ± 0.0 DER 2.4 ± 0.1 1.3 ± 0.4 0.3 ± 0.1 3.3 ± 1.4 0.7 ± 0.3 2.2 ± ± 1.2 0.8 ± 0.1 CC 0.0 ± 0.0	AZA DEET	1.8 ± 0.5 2.2 ± 0.8	0.2± 0.2 3.6 ± 1.0	2.8 ± 0.7 3.3 ± 0.8	0.9 ± 0.5 3.4 ± 0.6	2.2 ± 0.7 1.0 ± 0.4	3.3 ± 0.8	0.0 ± 0.0
UMB 24.10 250.14 11.100 24.100 11.100 26.100 10.1100 DEN 21.610 25.010 15.107 0.20.110 10.100 10.010 0.01000 0.01000	COU	2.2 ± 0.6	8.6 ± 2.1	0.2 ± 0.2	3.4 ± 0.5	0.4 ± 0.4	8.2 ± 1.0	0.0 ± 0.0
SPS 138 ± 12 25 ± 13 02 ± 02 168 ± 11 16 ± 07 12 ± 01 ± 1 00 ± 10 DEN 126 ± 14 1 ± 0.0 ± 0.0 10 ± 1.0 02 ± 0.2 16 ± 1.4 02 ± 0.1 16 ± 1.4 02 ± 0.1 16 ± 1.4 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.1 02 ± 0.2 02 ± 0.1 02 ± 0.2 02 ± 0.2 02 ± 0.2 04 ± 0.3 00 ± 0.0 10 ± 0.0 00 ± 0.0 10 ± 0.0 00 ± 0.0	UMB	2.4 ± 1.0 12 1 ± 0 7	25.0 ± 1.4 5 2 ± 0.8	1.1 ± 0.6	2.4 ± 0.9 10.6 ± 0.6	1.1 ± 0.6 3.4 ± 0.4	6.8 ± 0.9 12.0 ± 1.2	0.0 ± 0.0 0.3 ± 0.3
ESC 159109 15107 09103 24316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401 124316 12401	SPS	13.8 ± 1.2	5.8 ± 1.3	0.2 ± 0.2	16.6 ± 1.1	1.6 ± 0.7	12.0 ± 1.1	0.0 ± 0.0
LEB 248 + 13 15 + 06 18 + 07 242 + 13 11 + 00 22 + 13 0.0 + 00 LDB 26.1 ± 1.4 13 + 0.4 0.3 ± 0.1 35.3 ± 1.4 0.7 + 0.3 26.5 ± 1.2 0.8 ± 0.5 TCC 0.0 ± 0.0	ESC	15.9 ± 0.9	1.5 ± 0.7	0.9 ± 0.3	17.4 ± 1.4 24.3 ± 1.6	0.2 ± 0.1 1 2 ± 0 5	18.9 ± 1.5 24 9 + 1 8	2.3 ± 1.0 0.0 + 0.0
LOB 26.1±1.4 1.3±0.4 0.3±0.1 35.3±1.4 0.7±0.3 265±1.2 0.8±0.5 1b + Gd2a ¹ Gd2a ² Gd2a ¹ Gd6a ¹ Gd6a ² 2 Gd6a ² <	BER	21.0 ± 1.4 24.6 ± 1.8	1.5 ± 0.4 1.5 ± 0.6	1.8 ± 0.9 1.8 ± 0.7	24.2 ± 1.8	1.8 ± 0.6	22.9 ± 1.3	0.0 ± 0.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	LOB	26.1 ± 1.4	1.3 ± 0.4	0.3 ± 0.1	35.3 ± 1.4	0.7 ± 0.3	26.5 ± 1.2	0.8 ± 0.5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			4	0	4	4	2	2
$ \begin{array}{c} \mbox{TCC} & 0.0\pm 0.0 & 0.0\pm 0.0\pm$	I-b	+	Gr32a ¹	Gr33a ²	Gr39a ¹	Gr66a ¹	Gr89a ²	Gr93a ³
STR 0.24.0.2 1.24.0.7 0.24.0.2 0.24.0.2 0.24.0.2 0.24.0.2 0.24.0.4 0.04.0.4	тсс	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0
Description 0.4 = 0.4 0.0 = 0.0	STR	0.2 ± 0.2 0.2 + 0.2	1.2 ± 0.7 1.2 ± 0.6	0.2 ± 0.2 0.4 + 0.2	0.2 ± 0.2 0.4 ± 0.4	0.2 ± 0.2 0.4 ± 0.4	0.4 ± 0.3 0.4 + 0.4	0.8 ± 0.3 0.2 + 0.2
CUC 0.4 ±0.4 0.0 ±0.0 0.0 ±0.0 0.0 ±0.0 0.0 ±0.0 1.0 ±0.4 5.5 ±1.2 GOS 0.6 ±0.3 0.6 ±0.3 0.8 ±0.3 0.2 ±0.2 0.2 ±0.2 0.2 ±0.2 0.8 ±0.3 ARI 0.8 ±0.3 0.8 ±0.3 0.2 ±0.2 0.2 ±0.2 0.8 ±0.3 0.2 ±0.2 0.2 ±0.2 0.8 ±0.3 GOS 0.8 ±0.4 0.2 ±0.7 0.0 ±0.0 1.0 ±0.6 1.5 ±0.6 0.0 ±0.0 </td <td>ROT</td> <td>0.4 ± 0.4</td> <td>0.0 ± 0.0</td> <td>0.0 ± 0.0</td> <td>0.0 ± 0.0</td> <td>1.0 ± 0.4</td> <td>0.0 ± 0.0</td> <td>0.2 ± 0.2</td>	ROT	0.4 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.0 ± 0.4	0.0 ± 0.0	0.2 ± 0.2
SDD GRI 0.8 + 0.8 1.8 + 0.5 0.2 + 0.5 0.2 + 0.2	CUC	0.4 ± 0.4	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	0.0 ± 0.0	1.0 ± 0.4	5.5 ± 1.2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	GOS	0.6 ± 0.3 0.8 ± 0.8	1.4 ± 0.7 0.6 ± 0.3	0.4 ± 0.3 0.8 ± 0.3	1.4 ± 0.3 0.2 ± 0.2	0.2 ± 0.2 0.2 ± 0.2	0.2 ± 0.2 1.8 ± 0.6	14.9 ± 1.0 2.6 ± 0.9
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ARI	0.8 ± 0.4	6.6 ± 0.7	2.0 ± 0.5	2.0 ± 0.7	0.0 ± 0.0	11.0 ± 0.6	15.3 ± 2.0
$ \begin{array}{c} \begin{array}{c} segment{segment} segment{se$		1.2 ± 0.7 1.2 ± 0.4	10.7 ± 0.8 25 ± 0.5	0.4 ± 0.3 0.2 ± 0.2	0.6 ± 0.3 1.0 ± 0.3	1.0 ± 0.3 0.4 ± 0.2	2.7 ± 0.9 0.6 ± 0.4	2.9 ± 0.6 18 + 10
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SPS	1.6 ± 0.6	0.4 ± 0.4	1.2 ± 0.7	0.4 ± 0.4	0.2 ± 0.2	0.2 ± 0.2	0.0 ± 0.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	AZA	2.4 ± 0.7	0.8 ± 0.4	2.8 ± 1.0	1.8 ± 0.6	4.0 ± 1.0	1.6 ± 0.5	0.0 ± 0.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	LOB	2.7 ± 0.8 3.7 ± 0.7	1.6 ± 0.7 11.8 ± 0.6	1.0 ± 0.8 4.7 ± 0.8	2.0 ± 0.5 4.4 ± 0.7	1.2 ± 0.8 3.6 ± 0.7	1.0 ± 0.5 3.7 ± 0.4	0.0 ± 0.0 1.4 ± 0.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	BER	5.1 ± 0.8	9.4 ± 0.7	4.4 ± 1.7	4.7 ± 0.8	2.6 ± 0.5	6.4 ± 0.9	0.0 ± 0.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ESC	16.2 ± 1.2 17 1 + 1 0	1.4 ± 0.6 17 5 ± 0.9	0.0 ± 0.0 0.3 ± 0.3	16.6 ± 1.1 0 2 ± 0 2	0.0 ± 0.0 0.6 ± 0.3	16.2 ± 1.8 16.0 ± 0.9	0.6 ± 0.4 0.0 + 0.0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	SAP	18.7 ± 1.3	16.3 ± 2.0	6.2 ± 0.8	15.3 ± 1.2	3.5 ± 0.4	14.0 ± 0.8	0.4 ± 0.4
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	COU	26.7 ± 2.5	20.9 ± 2.5	0.2 ± 0.2	4.2 ± 0.7	0.2 ± 0.2	24.4 ± 1.8	1.6 ± 0.3
$\begin{array}{ c crrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	UMB	35.3 ± 1.7 36.0 ± 2.0	30.6 ± 1.3 31.2 ± 2.5	1.0 ± 0.3 2.0 ± 0.8	1.0 ± 0.0 1.2 ± 0.6	2.2 ± 0.6 2.8 ± 0.7	30.0 ± 1.2 33.9 ± 1.2	0.0 ± 0.0 0.4 ± 0.4
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	CAF	42.2 ± 1.8	43.8 ± 1.8	0.8 ± 0.4	1.9 ± 0.7	0.2 ± 0.2	46.4 ± 2.0	0.4 ± 0.4
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$								
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a	+	Gr32a ¹	Gr33a ²	Gr39a ¹	Gr66a ¹	Gr89a ²	Gr93a ³
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC	+ 1.4 ± 0.4	<i>Gr</i> 32a ¹ 1.2 ± 0.9	<i>Gr33a</i> ² 0.0 ± 0.0	<i>Gr39a</i> ¹ 0.8 ± 0.4	<i>Gr66a</i> ¹ 0.0 ± 0.0	<i>Gr89a</i> ²	$\frac{Gr93a^3}{0.8 \pm 0.8}$
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a TCC MYR	+ 1.4 ± 0.4 2.8 ± 1.0	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5	<i>Gr</i> 33 <i>a</i> ² 0.0 ± 0.0 3.6 ± 1.4	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5	<i>Gr89a</i> ² 1.4 ± 0.5 1.3 ± 0.5	$Gr93a^3$ 0.8 ± 0.8 34.7 ± 2.5
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a TCC MYR ESC ROT	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7	$Gr33a^2$ 0.0 ± 0.0 3.6 ± 1.4 4.9 ± 1.5 4.0 ± 0.5	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8	$Gr89a^2$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7	<i>Gr93a</i> ³ 0.8 ± 0.8 34.7 ± 2.5 27.3 ± 2.5 3 3 ± 0.4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 4.4 ± 0.7	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7 2.7 ± 0.5	$Gr33a^{2}$ 0.0 ± 0.0 3.6 ± 1.4 4.9 ± 1.5 4.0 ± 0.5 10.7 ± 2.2	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2	$Gr93a^{3}$ 0.8 ± 0.8 34.7 ± 2.5 27.3 ± 2.5 3.3 ± 0.4 33.6 ± 2.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 4.4 ± 0.7 13.8 ± 1.2 14.5 ± 0.2	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7 2.7 ± 0.5 16.7 ± 1.2 0.5 ± 0.4	$ Gr33a^2 0.0 \pm 0.0 3.6 \pm 1.4 4.9 \pm 1.5 4.0 \pm 0.5 10.7 \pm 2.2 15 \pm 1.9 0.0 4.0 0.0 10.7 10$	$ Gr39a^{1} 0.8 \pm 0.4 2.1 \pm 0.6 2.5 \pm 0.9 4.3 \pm 0.6 6.6 \pm 1.1 14.6 \pm 1.1 17.0 \pm 1.8 $	$ \begin{array}{r} Gr66a^{1} \\ 0.0 \pm 0.0 \\ 2.9 \pm 0.5 \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ \end{array} $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 12.8 + 0.8	$Gr93a^{3}$ 0.8 ± 0.8 34.7 ± 2.5 27.3 ± 2.5 3.3 ± 0.4 33.6 ± 2.8 30.7 ± 3.6 26.2 ± 1.0
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI DEET SAP	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7 2.7 ± 0.5 16.7 ± 1.2 0.5 ± 0.4 20.7 ± 3.3	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4 \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7	Gr89a ² 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4	$Gr93a^{3}$ 0.8 ± 0.8 34.7 ± 2.5 27.3 ± 2.5 3.3 ± 0.4 33.6 ± 2.8 30.7 ± 3.6 26.2 ± 1.9 28.2 ± 2.0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI DEET SAP THE	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \end{array}$	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7 2.7 ± 0.5 16.7 ± 1.2 0.5 ± 0.4 20.7 ± 3.3 20.2 ± 1.0	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2	$Gr93a^{3}$ 0.8 ± 0.8 34.7 ± 2.5 27.3 ± 2.5 3.3 ± 0.4 30.7 ± 3.6 26.2 ± 1.9 28.2 ± 2.0 29.7 ± 2.4
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI DEET SAP THE SAP THE	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0	$\begin{array}{c} Gr32a^{1}\\ \hline 1.2\pm0.9\\ 4.7\pm1.5\\ 6.2\pm0.7\\ 4.8\pm0.7\\ 2.7\pm0.5\\ 16.7\pm1.2\\ 0.5\pm0.4\\ 20.7\pm3.3\\ 20.2\pm1.0\\ 9.5\pm1.6\\ 22.6\pm1.9\end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2 \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4	$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.4\\ \end{array}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI DEET SAP THE QUI TPH CUC	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \end{array}$	$\begin{array}{c} Gr32a^{1}\\ \hline 1.2\pm0.9\\ 4.7\pm1.5\\ 6.2\pm0.7\\ 4.8\pm0.7\\ 2.7\pm0.5\\ 16.7\pm1.2\\ 0.5\pm0.4\\ 20.7\pm3.3\\ 20.2\pm1.0\\ 9.5\pm1.6\\ 22.6\pm1.9\\ 2.1\pm0.9\end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5	$\begin{array}{c} Gr93a^3\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ \end{array}$
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a TCC MYR ESCT GOS ARI DEET SAP THE QUI TPH CUC SOA	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 22.4 ± 1.0	$Gr32a^{1}$ 1.2 ± 0.9 4.7 ± 1.5 6.2 ± 0.7 4.8 ± 0.7 2.7 ± 0.5 16.7 ± 1.2 0.5 ± 0.4 20.7 ± 3.3 20.2 ± 1.0 9.5 ± 1.6 22.6 ± 1.9 2.1 ± 0.9 1.1 ± 0.4 20.9 ± 1.6	$Gr33a^{2}$ 0.0 ± 0.0 3.6 ± 1.4 4.9 ± 1.5 4.0 ± 0.5 10.7 ± 2.2 15 ± 1.9 0.0 ± 0.0 21.1 ± 1.4 17.5 ± 1.0 5.8 ± 0.8 4.6 ± 1.2 1.9 ± 0.7 8.3 ± 1.4 6.9 ± 1.5	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.4 26.0 ± 0.9 20.2 ± 1.4 26.0 ± 0.9 20.2 ± 0.7 20.2 ± 0.7 20.7 ± 0.7	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.4	$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ \end{array}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT GOS ARI DEET SAP THE QUI TPH CUC SOA COU STR	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8	$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.4\pm2.1\end{array}$
BER CAF26.9 ± 1.11.1 ± 0.41.5 ± 1.030.9 ± 1.030.9 ± 1.020.2 ± 1.020.0 ± 1.760.0 ± 1.7AZA AZA29.9 ± 1.03.3 ± 0.633.6 ± 2.537.0 ± 1.915.0 ± 1.525.9 ± 2.25.5 ± 1.1LOB40.5 ± 1.52.5 ± 0.80.1 ± 0.138.0 ± 1.522.1 ± 1.334.4 ± 1.11.1 ± 0.6LOB40.5 ± 1.52.5 ± 0.80.1 ± 0.138.0 ± 1.522.1 ± 1.334.4 ± 1.11.1 ± 0.6S-b+Gr32a ¹ Gr33a ² Gr39a ¹ Gr66a ¹ Gr69a ² Gr93a ³ TCC3.0 ± 0.95.3 ± 1.55.2 ± 1.31.4 ± 0.60.0 ± 0.04.0 ± 0.64.4 ± 1.6MYR1.4 ± 0.42.5 4 ± 1.621.8 ± 1.63.0 ± 1.223.1 ± 1.12.2 ± 0.77.8 ± 1.8GOS5.8 ± 1.15.2 ± 0.914.8 ± 1.35.4 ± 1.25.7 ± 0.88.5 ± 1.40.7 ± 0.5ROT5.8 ± 0.66.0 ± 0.76.2 ± 0.85.3 ± 0.75.5 ± 0.54.7 ± 0.637.2 ± 3.3DEET14.9 ± 1.10.8 ± 0.31.8 ± 0.723.1 ± 1.40.7 ± 0.315.0 ± 1.236.5 ± 2.9QUI15.3 ± 1.211.1 ± 0.713.7 ± 0.928.3 ± 1.84.2 ± 0.614.0 ± 1.334.7 ± 3.7ARI16.4 ± 0.921.2 ± 1.420.0 ± 1.117.1 ± 1.219.3 ± 1.419.5 ± 1.435.5 ± 2.6 ± 2.9QUI15.3 ± 1.211.1 ± 0.713.7 ± 0.928.3 ± 1.80.2 ± 0.614.0 ± 1.334.7 ± 3.7ARI16.4 ± 0.921.2 ± 1.4 </td <td>S-a TCC MYR ESC ROT GOS ARI DEET SAP THE QUI TPH CUC SOA COU STR UMB</br></br></td> <td>$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \end{array}$</td> <td>$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \end{array}$</td> <td>$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ \end{array}$</td> <td>$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5</td> <td>$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8</td> <td>$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1</td> <td>$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.4\pm2.1\\ 19.3\pm2.0\\ \end{array}$</td>	S-a TCC MYR ESC ROT GOS ARI 	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1	$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.4\pm2.1\\ 19.3\pm2.0\\ \end{array}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC GOS ARI DEAP THE QUI TPH CUC SOA COU STR UMB DENS	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 10.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8 2.3 ± 0.6 15.4 ± 1.1	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0	$\begin{array}{c} Gr93a^{3}\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.4\pm2.1\\ 19.3\pm2.0\\ 13.2\pm1.0\\ 13.3\pm0.7\end{array}$
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a TCC ROT GOS ARI DEAP THE QUI TPH CUC SOA COU STR BER	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 26.9 \pm 1.1 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 33.9 ± 1.9	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8 2.3 ± 0.6 15.4 ± 1.1 6.2 ± 1.0	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 24.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.9 ± 1.7	$\begin{array}{c} Gr93a^{3} \\ \hline 0.8 \pm 0.8 \\ 34.7 \pm 2.5 \\ 27.3 \pm 2.5 \\ 3.3 \pm 0.4 \\ 36.6 \pm 2.8 \\ 30.7 \pm 3.6 \\ 26.2 \pm 1.9 \\ 28.2 \pm 2.0 \\ 29.7 \pm 2.4 \\ 29.8 \pm 4.2 \\ 21.0 \pm 2.1 \\ 20.0 \pm 1.7 \\ 4.0 \pm 1.8 \\ 18.8 \pm 1.7 \\ 19.4 \pm 2.1 \\ 19.3 \pm 2.0 \\ 13.2 \pm 1.0 \\ 13.3 \pm 0.7 \\ 6.0 \pm 1.7 \end{array}$
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	S-a TCC ROT GOS ARI DEAP THE QUI TPH CUC SOA COU STR BER SPR CATA	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 28.4 \pm 1.9 \\ 20.0 \pm 1.0 \\$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 2.2 \pm 0.6 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ 0.5\pm0.3\\$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 33.9 ± 1.9 2.3 ± 0.5 27.0 ± 1.0	$Gr66a^{1}$ 0.0 ± 0.0 2.9 ± 0.5 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 10.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8 2.3 ± 0.6 15.4 ± 1.1 6.2 ± 1.0 0.4 ± 0.3 15.0 ± 1.5 15.5 ± 1.5 15.5 ± 0.7 15.5 ± 0.7 15.7 ± 0.9 15.2 ± 0.8 15.4 ± 0.1 15.2 ± 0.8 15.4 ± 0.7 15.2 ±	$Gr89a^{2}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.2 25.9 ± 2.2 25.9 ± 2.2	$\begin{array}{c} Gr93a^{3} \\ \hline 0.8 \pm 0.8 \\ 34.7 \pm 2.5 \\ 27.3 \pm 2.5 \\ 3.3 \pm 0.4 \\ 36.6 \pm 2.8 \\ 30.7 \pm 3.6 \\ 26.2 \pm 1.9 \\ 28.2 \pm 2.0 \\ 29.7 \pm 2.4 \\ 29.8 \pm 4.2 \\ 21.0 \pm 2.1 \\ 20.0 \pm 1.7 \\ 4.0 \pm 1.8 \\ 18.8 \pm 1.7 \\ 19.4 \pm 2.1 \\ 19.3 \pm 2.0 \\ 13.2 \pm 1.0 \\ 13.3 \pm 0.7 \\ 6.0 \pm 1.7 \\ 5.5 \pm 1.7 \\ 5.5 \pm 1.7 \end{array}$
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC GOS ARI DEET SAP THE QUI TPUC SOU STR UMB DENS BER CAF AZA LOB	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 26.9 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 33.9 ± 1.9 2.3 ± 0.5 37.0 ± 1.9 38.0 ± 1.5	$ \begin{array}{c} Gr66a^{1} \\ \hline 0.0 \pm 0.0 \\ 2.9 \pm 0.5 \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ 17.5 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 3.4 \pm 0.7 \\ 4.7 \pm 1.2 \\ 4.8 \pm 1.1 \\ 2.4 \pm 0.5 \\ 1.7 \pm 0.9 \\ 3.2 \pm 0.8 \\ 2.3 \pm 0.6 \\ 15.4 \pm 1.1 \\ 6.2 \pm 1.0 \\ 0.4 \pm 0.3 \\ 15.0 \pm 1.5 \\ 22.1 \pm 1.3 \end{array} $	$\label{eq:Gr89a} \frac{2}{1.4\pm0.5} \\ 1.4\pm0.5 \\ 1.3\pm0.5 \\ 2.6\pm0.7 \\ 5.6\pm0.7 \\ 5.6\pm1.2 \\ 16.0\pm1.1 \\ 13.8\pm0.8 \\ 18.4\pm1.4 \\ 12.2\pm1.2 \\ 17.8\pm1.1 \\ 23.8\pm2.4 \\ 18.8\pm1.5 \\ 20.0\pm0.7 \\ 17.8\pm1.1 \\ 30.9\pm0.8 \\ 19.1\pm1.1 \\ 24.1\pm1.0 \\ 26.9\pm1.0 \\ 26.0\pm1.7 \\ 27.9\pm2.2 \\ 25.9\pm2.2 \\ 34.4\pm1.1 \\ 1.1 $	$\begin{array}{c} Gr93a^3\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.3\pm2.0\\ 13.2\pm1.0\\ 13.3\pm0.7\\ 6.0\pm1.7\\ 5.5\pm1.7\\ 5.0\pm1.1\\ 1.1\pm0.6\end{array}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC GOS ARI DEET SAP THE QUI TPH CUC SOA COU STR UMB DEN SPS BER CAF AZA LOB	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 26.9 \pm 1.1 \\ 26.9 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \end{array}$	$\begin{array}{c} {\it Gr33a}^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 33.9 ± 1.9 23.2 ± 0.5 37.0 ± 1.9 38.0 ± 1.5	$ \begin{array}{c} Gr66a^{1} \\ \hline 0.0 \pm 0.0 \\ 2.9 \pm 0.5 \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ 17.5 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 3.4 \pm 0.7 \\ 4.7 \pm 1.2 \\ 4.8 \pm 1.1 \\ 2.4 \pm 0.5 \\ 1.7 \pm 0.9 \\ 3.2 \pm 0.8 \\ 2.3 \pm 0.6 \\ 15.4 \pm 1.1 \\ 6.2 \pm 1.0 \\ 0.4 \pm 0.3 \\ 15.0 \pm 1.5 \\ 22.1 \pm 1.3 \end{array} $	$\label{eq:Gr89a} \frac{2}{1.4\pm0.5} \\ 1.4\pm0.5 \\ 1.3\pm0.5 \\ 2.6\pm0.8 \\ 5.6\pm0.7 \\ 5.6\pm1.2 \\ 16.0\pm1.1 \\ 13.8\pm0.8 \\ 18.4\pm1.4 \\ 12.2\pm1.2 \\ 17.8\pm1.1 \\ 23.8\pm2.4 \\ 18.8\pm1.5 \\ 20.0\pm0.7 \\ 17.8\pm1.1 \\ 30.9\pm0.8 \\ 19.1\pm1.1 \\ 24.1\pm1.0 \\ 26.9\pm1.0 \\ 26.9\pm1.0 \\ 26.9\pm1.0 \\ 26.9\pm1.0 \\ 26.9\pm1.1 \\ 27.9\pm2.2 \\ 34.4\pm1.1 \\ \end{tabular}$	$\begin{array}{c} Gr93a^3\\ \hline 0.8\pm0.8\\ 34.7\pm2.5\\ 27.3\pm2.5\\ 3.3\pm0.4\\ 33.6\pm2.8\\ 30.7\pm3.6\\ 26.2\pm1.9\\ 28.2\pm2.0\\ 29.7\pm2.4\\ 29.8\pm4.2\\ 21.0\pm2.1\\ 20.0\pm1.7\\ 4.0\pm1.8\\ 18.8\pm1.7\\ 19.3\pm2.0\\ 13.2\pm1.0\\ 13.3\pm0.7\\ 6.0\pm1.7\\ 5.5\pm1.7\\ 5.0\pm1.1\\ 1.1\pm0.6\\ \end{array}$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DEN SBER CAF AZA LOB	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 26.9 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \end{array}$	$\begin{array}{c} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \end{array}$	$\begin{array}{c} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ 3.6\pm2.5\\ 0.1\pm0.1\\ \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$ \begin{array}{c} Gr66a^{1} \\ \hline 0.0 \pm 0.0 \\ 2.9 \pm 0.5 \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ 17.5 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 3.4 \pm 0.7 \\ 4.7 \pm 1.2 \\ 4.8 \pm 1.1 \\ 2.4 \pm 0.5 \\ 1.7 \pm 0.9 \\ 3.2 \pm 0.8 \\ 2.3 \pm 0.6 \\ 15.4 \pm 1.1 \\ 6.2 \pm 1.0 \\ 0.4 \pm 0.3 \\ 15.0 \pm 1.5 \\ 22.1 \pm 1.3 \end{array} $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a ²	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DEN SBER CAF AZA LOB	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \\ \end{array}$	$\begin{array}{r} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \end{array}$	$\begin{array}{r} Gr33a^2\\ \hline 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.1\\ 0.5\pm0.3\\ 3.3.6\pm2.5\\ 0.1\pm0.1\\ \hline Gr33a^2\\ \hline 5.2\pm1.3\\ 21.8\pm1.6\\ \hline \end{array}$	$Gr39a^{1}$ 0.8 ± 0.4 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 33.9 ± 1.9 2.3 ± 0.5 37.0 ± 1.9 38.0 ± 1.5 Gr39a^{1}	$ \begin{array}{r} Gr66a^{1} \\ \hline 0.0 \pm 0.0 \\ 2.9 \pm 0.5 \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ 17.5 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 3.4 \pm 0.7 \\ 4.7 \pm 1.2 \\ 4.8 \pm 1.1 \\ 2.4 \pm 0.5 \\ 1.7 \pm 0.9 \\ 3.2 \pm 0.8 \\ 2.3 \pm 0.6 \\ 15.4 \pm 1.1 \\ 6.2 \pm 1.0 \\ 0.4 \pm 0.3 \\ 15.0 \pm 1.5 \\ 22.1 \pm 1.3 \\ \hline \begin{array}{r} Gr66a^{1} \\ 0.0 \pm 0.0 \\ 23 \pm 1.4 \\ 1 \\ 1 \\ \end{array} $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a^2 4.0 ± 0.6 2.2 ± 0.7	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.0 \\ 24.3 \pm 0.9 \\ 26.7 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \\ \end{array}$	$\begin{array}{r} Gr32a^{1} \\ \hline 1.2 \pm 0.9 \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \end{array}$	$\begin{array}{r} Gr33a^2\\ \hline 0.0\pm 0.0\\ 3.6\pm 1.4\\ 4.9\pm 1.5\\ 4.0\pm 0.5\\ 10.7\pm 2.2\\ 15\pm 1.9\\ 0.0\pm 0.0\\ 21.1\pm 1.4\\ 17.5\pm 1.0\\ 5.8\pm 0.8\\ 4.6\pm 1.2\\ 1.9\pm 0.7\\ 8.3\pm 1.4\\ 6.8\pm 1.5\\ 0.3\pm 0.2\\ 12.4\pm 2.3\\ 1.3\pm 0.5\\ 12.3\pm 1.1\\ 0.5\pm 0.3\\ 3.3.6\pm 2.5\\ 0.1\pm 0.1\\ \hline Gr33a^2\\ \hline 5.2\pm 1.3\\ 21.8\pm 1.6\\ 14.8\pm 1.3\\ \end{array}$	$\begin{tabular}{ c c c c c c c } \hline $Gr39a^1$ \\ \hline 0.8 \pm 0.4$ \\ 2.1 \pm 0.6$ \\ 2.5 \pm 0.9$ \\ 4.3 \pm 0.6$ \\ 6.6 \pm 1.1$ \\ 14.6 \pm 1.1$ \\ 17.0 \pm 1.8$ \\ 22.1 \pm 1.4$ \\ 19.2 \pm 1.2$ \\ 22.8 \pm 1.3$ \\ 9.2 \pm 1.0$ \\ 30.2 \pm 1.4$ \\ 26.0 \pm 0.9$ \\ 22.2 \pm 2.7$ \\ 41.1 \pm 1.7$ \\ 17.0 \pm 1.5$ \\ \hline 3.5 ± 1.4 \\ 50.6 \pm 3.1$ \\ 33.9 \pm 1.9$ \\ 2.3 \pm 0.5$ \\ 37.0 \pm 1.9$ \\ 2.3 \pm 0.5$ \\ 37.0 \pm 1.9$ \\ 38.0 \pm 1.5$ \\ \hline $Gr39a^1$ \\ \hline 1.4 \pm 0.6$ \\ 3.0 \pm 1.2$ \\ 5.4 \pm 1.2$ \\ \hline \end{tabular}$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{6r66a^{1}}{0.0 \pm 0.0} $ $ 23.1 \pm 1.1 $ $ 5.7 \pm 0.8 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a ² 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4	$\begin{tabular}{ c c c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.4 \\ \hline 3.5 ± 0.5 \\ \hline 3.5 ± 0.5 \\ \hline 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 28.2 ± 2.0 \\ 29.7 ± 2.4 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 20.0 ± 1.7 \\ 4.0 ± 1.8 \\ 18.8 ± 1.7 \\ 19.3 ± 2.0 \\ 13.2 ± 1.0 \\ 13.3 ± 0.7 \\ 6.0 ± 1.7 \\ 5.5 ± 1.7 \\ 5.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DEN SBER CAF AZA LOB S-b TCC MYR GOS ROT	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.9 \\ 29.6 7 \pm 1.1 \\ 26.9 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \\ \end{array}$	$\frac{Gr32a^{1}}{1.2 \pm 0.9}$ $\frac{4.7 \pm 1.5}{6.2 \pm 0.7}$ $\frac{4.8 \pm 0.7}{2.7 \pm 0.5}$ 16.7 ± 1.2 0.5 ± 0.4 20.7 ± 3.3 20.2 ± 1.0 9.5 ± 1.6 22.6 ± 1.9 2.1 ± 0.9 1.1 ± 0.4 20.2 ± 1.6 0.4 ± 0.3 27.8 ± 1.7 0.6 ± 0.2 4.9 ± 1.5 1.1 ± 0.4 36.9 ± 1.6 3.3 ± 0.6 2.5 ± 0.8 $\frac{6r32a^{1}}{5.3 \pm 1.5}$	$\begin{tabular}{ c c c c c c c } \hline $Gr33a^2$ \\ \hline 0.0 \pm 0.0 \\ 3.6 ± 1.4 \\ 4.9 ± 1.5 \\ 4.0 ± 0.5 \\ 10.7 ± 2.2 \\ 15 ± 1.9 \\ 0.0 ± 0.0 \\ 21.1 ± 1.4 \\ 17.5 ± 1.0 \\ 5.8 ± 0.8 \\ 4.6 ± 1.2 \\ 1.9 ± 0.7 \\ 8.3 ± 1.4 \\ 6.8 ± 1.5 \\ 0.3 ± 0.2 \\ 12.4 ± 2.3 \\ 1.3 ± 0.5 \\ 12.3 ± 1.1 \\ 0.5 ± 0.3 \\ 0.5 ± 0.3 \\ 3.6 ± 2.5 \\ 0.1 ± 0.1 \\ \hline \end{tabular} \end{tabular}$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{6r66a^{1}}{5.7 \pm 0.8} $ $ 5.5 \pm 0.5 $ $ 15.4 \pm 0.2 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a ² 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 12.5 ± 1.4 12.5 ± 1.4 13.5 ± 1.4 13.5 ± 1.4 13.5 ± 1.4 13.5 ± 1.4 13.5 ± 1.4 13.5 ± 1.4 13.5	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DEN SBER CAF AZA LOB S-b TCC MYR GOS ROT ESC	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.2 \\ 23.7 \pm 1.0 \\ 24.4 \pm 1.9 \\ 26.7 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \\ \end{array}$	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ \frac{4.7 \pm 1.5}{6.2 \pm 0.7} \\ \frac{4.8 \pm 0.7}{2.7 \pm 0.5} \\ \frac{16.7 \pm 1.2}{1.6} \\ \frac{10.5 \pm 0.4}{20.7 \pm 3.3} \\ \frac{20.2 \pm 1.0}{20.2 \pm 1.6} \\ \frac{9.5 \pm 1.6}{22.6 \pm 1.9} \\ \frac{2.1 \pm 0.9}{1.1 \pm 0.4} \\ \frac{20.7 \pm 1.6}{20.2 \pm 1.6} \\ \frac{0.4 \pm 0.3}{27.8 \pm 1.7} \\ \frac{0.6 \pm 0.2}{0.4 \pm 0.3} \\ \frac{6.3 \pm 1.5}{25.4 \pm 1.6} \\ \frac{5.3 \pm 1.5}{25.4 \pm 1.6} \\ \frac{5.2 \pm 0.9}{5.2 \pm 0.9} \\ \frac{6.0 \pm 0.7}{16.8 \pm 1.7} \\ \frac{0.8 \pm 0.3}{0.3} \\ \frac{10.2 \pm 0.9}{0.3 \pm 0.5} \\ \frac{1.7}{0.8 \pm 0.3} \\ \frac{10.2 \pm 0.9}{0.3 \pm 0.5} \\ \frac{10.2 \pm 0.9}{0.3 \pm 0.3} \\ \frac{10.2 \pm 0.9}{0.3 \pm 0.5} \\ \frac{10.2 \pm 0.9}{0.5 \pm 0.5} \\ \frac{10.2 \pm 0.9}{$	$\begin{tabular}{ c c c c c c c } \hline $Gr33a^2$ \\ \hline 0.0 ± 0.0 \\ 3.6 ± 1.4 \\ 4.9 ± 1.5 \\ 4.0 ± 0.5 \\ 10.7 ± 2.2 \\ 15 ± 1.9 \\ 0.0 ± 0.0 \\ 21.1 ± 1.4 \\ 17.5 ± 1.0 \\ 5.8 ± 0.8 \\ 4.6 ± 1.2 \\ 1.9 ± 0.7 \\ 8.3 ± 1.4 \\ 6.8 ± 1.5 \\ 0.3 ± 0.2 \\ 12.4 ± 2.3 \\ 1.3 ± 0.5 \\ 12.3 ± 1.1 \\ 0.5 ± 0.3 \\ 3.6 ± 2.5 \\ 0.1 ± 0.1 \\ \hline \end{tabular} \end{tabular}$	$\begin{tabular}{ c c c c c c c } \hline $Gr39a^1$ \\ \hline 0.8 \pm 0.4$ \\ 2.1 \pm 0.6$ \\ 2.5 \pm 0.9$ \\ 4.3 \pm 0.6$ \\ 6.6 \pm 1.1$ \\ 14.6 \pm 1.1$ \\ 17.0 \pm 1.8$ \\ 22.1 \pm 1.4$ \\ 19.2 \pm 1.2$ \\ 22.8 \pm 1.3$ \\ 9.2 \pm 1.0$ \\ 30.2 \pm 1.4$ \\ 26.0 \pm 0.9$ \\ 22.2 \pm 2.7$ \\ 41.1 \pm 1.7$ \\ 17.0 \pm 1.5$ \\ \hline 3.5 ± 1.4 \\ 26.0 \pm 0.9$ \\ 22.2 \pm 2.7$ \\ 41.1 \pm 1.7$ \\ 17.0 \pm 1.5$ \\ \hline 3.5 ± 1.4 \\ 50.6 \pm 3.1$ \\ 33.9 \pm 1.9$ \\ 2.3 \pm 0.5$ \\ 37.0 \pm 1.9$ \\ 2.3 \pm 0.5$ \\ 37.0 \pm 1.9$ \\ 2.3 \pm 0.5$ \\ 37.0 \pm 1.9$ \\ 38.0 \pm 1.5$ \\ \hline \end{tabular}$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{6r66a^{1}}{5.5 \pm 0.5} $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.8 $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a ² 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS ROT ESC CAF COS DEET QUI	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.7 4.4 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.1 5.8 ± 0.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{tabular}{ c c c c c c c } \hline $Gr33a^2$ \\ \hline 0.0 \pm 0.0 \\ 3.6 ± 1.4 \\ 4.9 ± 1.5 \\ 4.0 ± 0.5 \\ 10.7 ± 2.2 \\ 15 ± 1.9 \\ 0.0 ± 0.0 \\ 21.1 ± 1.4 \\ 17.5 ± 1.0 \\ 5.8 ± 0.8 \\ 4.6 ± 1.2 \\ 1.9 ± 0.7 \\ 8.3 ± 1.4 \\ 6.8 ± 1.5 \\ 0.3 ± 0.2 \\ 12.4 ± 2.3 \\ 1.3 ± 0.5 \\ 12.3 ± 1.1 \\ 0.5 ± 0.3 \\ 0.5 ± 0.3 \\ 3.6 ± 2.5 \\ 0.1 ± 0.1 \\ \hline \end{tabular} \end{tabular}$	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{5.5 \pm 0.5} $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a ² 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 15.0 ± 1.2 15.0	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF A LOB S-b TCC MYR GOS ROT ESC CAF A LOB	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.0 ± 1.0 24.0 ± 1.1 26.9 ± 1.1 26.9 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.0 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ \frac{4.7 \pm 1.5}{6.2 \pm 0.7} \\ \frac{4.8 \pm 0.7}{2.7 \pm 0.5} \\ \frac{16.7 \pm 1.2}{1.6} \\ \frac{10.5 \pm 0.4}{20.7 \pm 3.3} \\ \frac{20.2 \pm 1.0}{20.2 \pm 1.6} \\ \frac{22.6 \pm 1.9}{2.1 \pm 0.9} \\ \frac{1.1 \pm 0.4}{1.1 \pm 0.4} \\ \frac{20.7 \pm 1.6}{20.6 \pm 1.9} \\ \frac{2.1 \pm 0.9}{1.1 \pm 0.4} \\ \frac{30.9 \pm 1.6}{3.3 \pm 0.6} \\ \frac{2.5 \pm 0.8}{2.5 \pm 0.8} \\ \frac{Gr32a^{1}}{1.1 \pm 0.7} \\ \frac{5.3 \pm 1.5}{25.4 \pm 1.6} \\ \frac{5.2 \pm 0.9}{6.0 \pm 0.7} \\ \frac{10.8 \pm 0.3}{11.1 \pm 0.7} \\ \frac{11.1 \pm 0.4}{20.3 \pm 0.7} \\ \frac{11.1 \pm 0.4}{20.3 \pm 0.7} \\ \frac{11.1 \pm 0.7}{21.2 \pm 1.4} \\ \frac{8.3 \pm 0.7}{20.2 \pm 0.7} \\ \frac{10.2 \pm 0.9}{20.3 \pm 0.7} \\ \frac{10.2 \pm 0.2}{20.3 \pm 0.7} $	$\begin{array}{r} Gr33a^2\\ \hline 0.0\pm 0.0\\ 3.6\pm 1.4\\ 4.9\pm 1.5\\ 4.0\pm 0.5\\ 10.7\pm 2.2\\ 15\pm 1.9\\ 0.0\pm 0.0\\ 21.1\pm 1.4\\ 17.5\pm 1.0\\ 5.8\pm 0.8\\ 4.6\pm 1.2\\ 1.9\pm 0.7\\ 8.3\pm 1.4\\ 6.8\pm 1.5\\ 0.3\pm 0.2\\ 12.4\pm 2.3\\ 1.3\pm 0.5\\ 12.3\pm 1.1\\ 0.5\pm 0.3\\ 3.3.6\pm 2.5\\ 0.1\pm 0.1\\ \hline \end{array}$	$\begin{tabular}{ c c c c c c c } \hline $Gr39a^1$ \\ \hline 0.8 \pm 0.4$ \\ 2.1 \pm 0.6$ \\ 2.5 \pm 0.9$ \\ 4.3 \pm 0.6$ \\ 6.6 \pm 1.1$ \\ 14.6 \pm 1.1$ \\ 17.0 \pm 1.8$ \\ 22.1 \pm 1.4$ \\ 19.2 \pm 1.2$ \\ 22.8 \pm 1.3$ \\ 9.2 \pm 1.0$ \\ 30.2 \pm 1.4$ \\ 19.2 \pm 2.2$ \\ 22.8 \pm 1.3$ \\ 9.2 \pm 2.7$ \\ 41.1 \pm 1.7$ \\ 17.0 \pm 1.5$ \\ 30.2 \pm 1.4$ \\ 26.0 \pm 0.9$ \\ 22.2 \pm 2.7$ \\ 41.1 \pm 1.7$ \\ 17.0 \pm 1.5$ \\ 30.2 \pm 1.4$ \\ 26.0 \pm 0.9$ \\ 1.4 \pm 0.6$ \\ 3.0 \pm 1.5$ \\ \hline \end{tabular}$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{2.0 \pm 0.0} $ $ 23.1 \pm 1.1 $ $ 5.7 \pm 0.8 $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a^2 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 20.9 ± 1.2 20.9 ± 1.2 20.9 ± 0.2 20.7	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.1 5.8 ± 0.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ \frac{4.7 \pm 1.5}{6.2 \pm 0.7} \\ \frac{4.8 \pm 0.7}{2.7 \pm 0.5} \\ \frac{16.7 \pm 1.2}{1.6} \\ \frac{10.5 \pm 0.4}{20.7 \pm 3.3} \\ \frac{20.2 \pm 1.0}{20.2 \pm 1.6} \\ \frac{22.6 \pm 1.9}{2.1 \pm 0.9} \\ \frac{1.1 \pm 0.4}{1.1 \pm 0.4} \\ \frac{20.7 \pm 1.6}{3.2 \pm 1.6} \\ \frac{0.4 \pm 0.3}{27.8 \pm 1.7} \\ \frac{1.1 \pm 0.4}{36.9 \pm 1.6} \\ \frac{3.3 \pm 0.6}{3.3 \pm 0.6} \\ \frac{2.5 \pm 0.8}{2.5 \pm 0.8} \\ \frac{Gr32a^{1}}{1.1 \pm 0.7} \\ \frac{1.5}{1.1 \pm 0.7} \\ \frac{1.1 \pm 0.7}{1.1 \pm 0.3} \\ \frac{1.5}{1.1 \pm 0.7} \\ \frac{1.5}{1.1 \pm 0.7} \\ \frac{1.5}{1.1 \pm 0.7} \\ \frac{1.5}{1.1 \pm 0.3} \\ \frac{1.5}{1.5} \\ $	$\begin{tabular}{ c c c c c c c } \hline $Gr33a^2$ \\ \hline 0.0 \pm 0.0 \\ 3.6 ± 1.4 \\ 4.9 ± 1.5 \\ 4.0 ± 0.5 \\ 10.7 ± 2.2 \\ 15 ± 1.9 \\ 0.0 ± 0.0 \\ 21.1 ± 1.4 \\ 17.5 ± 1.0 \\ 5.8 ± 0.8 \\ 4.6 ± 1.2 \\ 1.9 ± 0.7 \\ 8.3 ± 1.4 \\ 6.8 ± 1.5 \\ 0.3 ± 0.2 \\ 12.4 ± 2.3 \\ 1.3 ± 0.5 \\ 12.3 ± 1.1 \\ 0.5 ± 0.3 \\ 0.5 ± 0.3 \\ 3.6 ± 2.5 \\ 0.1 ± 0.1 \\ \hline \end{tabular} \end{tabular}$	$ \frac{Gr39a^{1}}{0.8 \pm 0.4} \\ 2.1 \pm 0.6 \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ \hline $	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{2.000} $ $ 0.0 \pm 0.0 $ $ 23.1 \pm 1.1 $ $ 5.7 \pm 0.8 $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 3.4 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 28.8 ± 1.1	$\begin{tabular}{ c c c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.5 \\ \hline 3.3 ± 0.5 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 28.2 ± 2.0 \\ 29.7 ± 2.4 \\ 29.7 ± 2.4 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 20.0 ± 1.7 \\ 4.0 ± 1.8 \\ 18.8 ± 1.7 \\ 19.3 ± 2.0 \\ 13.2 ± 1.0 \\ 19.3 ± 2.0 \\ 13.2 ± 1.0 \\ 13.3 ± 0.7 \\ 6.0 ± 1.7 \\ $5.5 $
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT DEAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF ALOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STA	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.0 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.1 5.8 ± 0.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.2	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 1.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \\ \hline \\ \frac{Gr32a^{1}}{5.3 \pm 1.5} \\ 25.4 \pm 1.6 \\ 5.2 \pm 0.9 \\ 6.0 \pm 0.7 \\ 16.8 \pm 0.3 \\ 11.1 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 9.0 \pm 0.7 \\ \hline \\ \end{array}$	$\begin{tabular}{ c c c c c c c } \hline $Gr33a^2$ \\ \hline 0.0 \pm 0.0 \\ 3.6 ± 1.4 \\ 4.9 ± 1.5 \\ 4.0 ± 0.5 \\ 10.7 ± 2.2 \\ 15 ± 1.9 \\ 0.0 ± 0.0 \\ 21.1 ± 1.4 \\ 17.5 ± 1.0 \\ 5.8 ± 0.8 \\ 4.6 ± 1.2 \\ 1.9 ± 0.7 \\ 8.3 ± 1.4 \\ 6.8 ± 1.5 \\ 0.3 ± 0.2 \\ 12.4 ± 2.3 \\ 1.3 ± 0.5 \\ 12.3 ± 1.1 \\ 0.5 ± 0.3 \\ 0.5 ± 0.3 \\ 3.6 ± 2.5 \\ 0.1 ± 0.1 \\ \hline \end{tabular} \en$	$ \frac{Gr39a^{1}}{0.8 \pm 0.4} \\ 2.1 \pm 0.6 \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ 1.4 \pm 0.6 \\ 3.0 \pm 1.2 \\ 5.3 \pm 0.7 \\ 14.2 \pm 1.3 \\ 23.1 \pm 1.4 \\ 28.3 \pm 1.8 \\ 17.1 \pm 1.2 \\ 36.8 \pm 2.3 \\ 40.0 \pm 1.8 \\ 38.3 \pm 1.6 \\ 32.1 \pm 0.4 \\ 38.3 \pm 1.6 \\ 32.1 \pm 0.4 \\ 38.3 \pm 1.6 \\ 32.1 \pm 0.4 \\ 38.3 \pm 1.6 \\ 33.4 \pm 0.6 \\ 33.4 \pm 0$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{1.50 \pm 1.5} $ $ 15.0 \pm 1.5 $ $ 15.0 \pm 1.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm 1.4 $ $ 1.5 \pm 0.5 $ $ 15.0 \pm $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 1.1 15.0 ± 1.2 14.0 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 29.6 ± 1.7 29.6 ± 1.7 29.7 ± 1.2 20.8 ± 1.2 20.9 ± 1.0 20.9 ± 1.0	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT DEAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STR SOA SAP	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.0 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.1 5.8 ± 0.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.3 23.6 ± 1.8	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ \frac{4.7 \pm 1.5}{6.2 \pm 0.7} \\ \frac{4.8 \pm 0.7}{2.7 \pm 0.5} \\ \frac{16.7 \pm 1.2}{1.6} \\ \frac{10.5 \pm 0.4}{20.7 \pm 3.3} \\ \frac{20.2 \pm 1.0}{20.2 \pm 1.6} \\ \frac{22.6 \pm 1.9}{2.1 \pm 0.9} \\ \frac{1.1 \pm 0.4}{1.1 \pm 0.4} \\ \frac{20.7 \pm 1.6}{3.27.8 \pm 1.7} \\ \frac{1.6 \pm 0.2}{0.6 \pm 0.2} \\ \frac{4.9 \pm 1.5}{4.1 \pm 0.4} \\ \frac{36.9 \pm 1.6}{3.3 \pm 0.6} \\ \frac{2.5 \pm 0.8}{2.5 \pm 0.8} \\ \hline \\ \frac{Gr32a^{1}}{1.1 \pm 0.4} \\ \frac{5.3 \pm 1.5}{25.4 \pm 1.6} \\ \frac{5.2 \pm 0.9}{6.0 \pm 0.7} \\ \frac{6.0 \pm 0.7}{1.1 \pm 0.3} \\ \frac{4.1 \pm 0.7}{1.1 \pm 0.3} \\ \frac{4.1 \pm 0.7}{4.1 \pm 0.7} \\ \frac{1.1 \pm 0.3}{2.1 \pm 0.7} \\ \frac{1.1 \pm 0.3}{1.1 \pm 0.7} \\ \frac{1.1 \pm 0.3}{2.8 \pm 0.7} \\ \frac{1.1 \pm 0.3}{2.1 \pm 0.7} \\ 1.1$	$\begin{array}{r} {\it G/33a}^2\\ \hline\\ 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.4\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \hline\\ {\it Gr33a}^2\\ \hline\\ 5.2\pm1.3\\ 21.8\pm1.6\\ 14.8\pm1.3\\ 6.2\pm0.8\\ 17.9\pm1.3\\ 1.8\pm0.7\\ 13.7\pm0.9\\ 20.0\pm1.1\\ 7.6\pm1.0\\ 0.8\pm0.8\\ 2.6\pm1.5\\ \hline\end{array}$	$ \frac{Gr39a^{1}}{0.8 \pm 0.4} \\ 2.1 \pm 0.6 \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ \hline \\ \frac{Gr39a^{1}}{3.0 \pm 1.5} \\ \frac{Gr39a^{1}}{3.0 \pm 1.5} \\ \frac{Gr39a^{1}}{3.0 \pm 1.5} \\ \frac{1.4 \pm 0.6 \\ 3.0 \pm 1.2 \\ 5.4 \pm 1.2 \\ 5.3 \pm 0.7 \\ 14.2 \pm 1.3 \\ 23.1 \pm 1.4 \\ 26.3 \pm 1.8 \\ 17.1 \pm 1.2 \\ 36.8 \pm 2.3 \\ 40.0 \pm 1.8 \\ 38.3 \pm 1.6 \\ 22.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ \hline \\ \end{array}$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{2.00 \pm 0.0} $ $ 23.1 \pm 1.1 $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 1.5 \pm 0.5 $ $ 28.7 \pm 1.1 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.9 ± 1.0 26.9 ± 1.0 26.9 ± 1.0 26.9 ± 1.1 24.4 ± 1.1 $\frac{Gr89a^2}{2}$ 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 22.9 ± 1.3	$\begin{tabular}{ c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.4 \\ 38.6 ± 2.8 \\ 30.7 ± 3.6 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 29.5 ± 4.2 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 19.4 ± 2.1 \\ 10.4 ± 1.6 \\ 7.5 ± 1.7 \\ 5.5 ± 1
SPS 33.3 ± 1.4 20.7 ± 1.1 24.5 ± 1.3 57.5 ± 3.1 17.4 ± 1.6 34.2 ± 1.6 13.7 ± 0.8 AZA 33.6 ± 1.1 6.6 ± 1.8 37.6 ± 1.7 41.4 ± 2.8 4.4 ± 1.7 32.0 ± 2.2 16.7 ± 1.6 UMB 36.7 ± 0.7 40.8 ± 0.7 22.6 ± 1.2 23.1 ± 1.6 4.2 ± 0.8 36.9 ± 2.8 14.7 ± 1.3 LOB 38.8 ± 1.6 5.5 ± 0.8 1.7 ± 0.5 41.2 ± 1.3 0.9 ± 0.3 39.4 ± 0.9 6.5 ± 1.0 TPH 42.9 ± 1.3 44.7 ± 1.7 30.6 ± 1.0 16.6 ± 1.6 18.6 ± 1.3 47.8 ± 2.0 6.3 ± 1.8 CAF 61.1 ± 1.2 58.7 ± 2.2 22.2 ± 1.7 7.0 ± 1.3 12.4 ± 1.7 59.4 ± 1.7 24 ± 1.2	S-a TCC MYR ESC ROT DEAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STR SOA SAP CUC	+ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.7 ± 1.0 24.0 ± 1.0 24.0 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.1 5.8 ± 0.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 25.5 ± 1.3 25.5 ± 1.3 25.5 ± 1.3 25.5 ± 1.3 25.5 ± 1.3 25.5 ± 1.3 25.5 ± 1.3 25.6 ± 2.4 25.5 ± 1.3	$\frac{Gr32a^{1}}{1.2 \pm 0.9}$ $\frac{1.2 \pm 0.9}{4.7 \pm 1.5}$ 6.2 ± 0.7 2.7 ± 0.5 16.7 ± 1.2 0.5 ± 0.4 20.7 ± 3.3 20.2 ± 1.0 2.6 ± 1.9 2.1 ± 0.9 2.1 ± 0.9 2.1 ± 0.9 2.1 ± 0.4 20.2 ± 1.6 0.4 ± 0.3 27.8 ± 1.7 0.6 ± 0.2 4.9 ± 1.6 3.3 ± 0.6 2.5 ± 0.8 $\frac{Gr32a^{1}}{5.3 \pm 1.5}$ 26.4 ± 1.6 5.2 ± 0.9 6.0 ± 0.7 16.8 ± 1.7 0.8 ± 0.3 11.1 ± 0.7 21.2 ± 1.4 8.3 ± 0.7 1.1 ± 0.3 4.1 ± 1.1 8.0 ± 0.7 28.6 ± 1.0 3.1 ± 0.7 28.6 ± 1.0 3.1 ± 0.7	$\begin{array}{r} {\it G/33a}^2 \\ \hline 0.0 \pm 0.0 \\ 3.6 \pm 1.4 \\ 4.9 \pm 1.5 \\ 4.0 \pm 0.5 \\ 10.7 \pm 2.2 \\ 15 \pm 1.9 \\ 0.0 \pm 0.0 \\ 21.1 \pm 1.4 \\ 17.5 \pm 1.0 \\ 5.8 \pm 0.8 \\ 4.6 \pm 1.2 \\ 1.9 \pm 0.7 \\ 8.3 \pm 1.4 \\ 6.8 \pm 1.5 \\ 0.3 \pm 0.2 \\ 12.4 \pm 2.3 \\ 1.3 \pm 0.5 \\ 12.3 \pm 1.4 \\ 6.8 \pm 1.5 \\ 0.3 \pm 0.2 \\ 12.4 \pm 2.3 \\ 1.3 \pm 0.5 \\ 12.3 \pm 1.4 \\ 0.5 \pm 0.3 \\ 33.6 \pm 2.5 \\ 0.1 \pm 0.1 \\ \hline 0.1 \pm 0.1 \\ \hline \end{array}$	$\frac{Gr39a^{1}}{0.8 \pm 0.4}$ 2.1 ± 0.6 2.5 ± 0.9 4.3 ± 0.6 6.6 ± 1.1 14.6 ± 1.1 17.0 ± 1.8 22.1 ± 1.4 19.2 ± 1.2 22.8 ± 1.3 9.2 ± 1.0 30.2 ± 1.4 26.0 ± 0.9 22.2 ± 2.7 41.1 ± 1.7 17.0 ± 1.5 35.3 ± 1.4 50.6 ± 3.1 3.9 ± 1.9 2.3 ± 0.5 37.0 ± 1.9 38.0 ± 1.5 $\frac{Gr39a^{1}}{2.5 \pm 0.7}$ 1.4 ± 0.6 3.0 ± 1.5 $\frac{Gr39a^{1}}{2.5 \pm 0.7}$ 1.4 ± 0.6 3.0 ± 1.2 5.4 ± 1.2 5.3 ± 0.7 14.2 ± 1.3 23.1 ± 1.4 26.3 ± 1.8 17.1 ± 1.2 36.8 ± 1.8 17.1 ± 1.2 36.8 ± 1.8 17.1 ± 1.2 36.8 ± 1.8 17.1 ± 1.0 27.0 ± 1.5 36.6 ± 1.1 38.3 ± 1.6 22.1 ± 1.0 27.0 ± 1.5 36.6 ± 1.5 36.5 ± 1.5 $36.$	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.0 \pm 0.4 $ $ 17.5 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{6r66a^{1}}{1.5 + 1.5 } $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.8 $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 1.5 \pm 0.5 $ $ 28.7 \pm 1.1 $ $ 3.8 \pm 2.1 $ $ 3.8 \pm 2.1 $ $ 3.8 \pm 2.1 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 2.2 25.9 ± 1.1 15.0 ± 1.2 14.0 ± 0.6 13.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.4 20.8 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 22.9 ± 1.3 21.4 ± 1.3	$\begin{tabular}{ c c c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.4 \\ 33.6 ± 2.8 \\ 30.7 ± 3.6 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 28.2 ± 2.0 \\ 29.5 ± 4.2 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 19.4 ± 2.1 \\ 10.4 ± 1.6 \\ 7.5 ± 1.7 \\ 5.5 ± 1.7 \\ 5.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	S-a TCC MYR ESC ROT DEAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZA LOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STR STA SAP CUC COS COS COS COS COS COS COS COS COS CO	$+$ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 4.4 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.4 ± 1.2 23.7 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 26.2 ± 1.4 28.9 ± 1.2	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \\ \hline \\ \frac{Gr32a^{1}}{5.3 \pm 1.5} \\ 25.4 \pm 1.6 \\ 5.2 \pm 0.9 \\ 6.0 \pm 0.7 \\ 16.8 \pm 1.7 \\ 0.8 \pm 0.3 \\ 11.1 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 8.0 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 8.0 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 8.0 \pm 0.7 \\ 21.6 \pm 1.0 \\ 3.1 \pm 0.7 \\ 31.5 \pm 2.1 \\ 30.3 \pm 2.1 \\ \hline $	$\begin{array}{r} {\it G/33a}^2\\ \hline\\ 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.4\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \hline\\ {\it Gr33a}^2\\ \hline\\ 5.2\pm1.3\\ 21.8\pm1.6\\ 14.8\pm1.3\\ 6.2\pm0.8\\ 17.9\pm1.3\\ 1.8\pm0.7\\ 13.7\pm0.9\\ 20.0\pm1.1\\ 7.6\pm1.0\\ 0.8\pm0.8\\ 2.6\pm1.5\\ 7.2\pm1.9\\ 31.5\pm1.3\\ 24.3\pm2.1\\ \hline\end{array}$	$ \frac{Gr39a^{1}}{2.1 \pm 0.6} \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ 37.0 \pm 1.1 \\ 38.3 \pm 1.6 \\ 17.1 \pm 1.2 \\ 36.8 \pm 2.3 \\ 40.0 \pm 1.8 \\ 38.3 \pm 1.6 \\ 22.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.2 \\ 23.8 \pm 1.4 \\ 17.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm $	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 10.9 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8 2.3 ± 0.6 15.4 ± 1.1 6.2 ± 1.0 0.4 ± 0.3 15.0 ± 1.5 22.1 ± 1.3 $ \frac{Gr66a^{1}}{2.2 \pm 1.7} $ 0.0 ± 0.0 23.1 ± 1.1 5.7 ± 0.8 5.5 ± 0.5 15.0 ± 1.0 0.7 ± 0.3 4.2 ± 0.6 19.3 ± 1.4 3.3 ± 0.6 0.3 ± 0.2 0.6 ± 0.3 1.5 ± 0.5 28.7 ± 1.1 3.8 ± 2.1 31.8 ± 1.6 3.2 ± 1.3	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a^2 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 23.8 ± 2.4 13.5 ± 1.4 20.8 ± 1.2 21.4 ± 1.3 21.4 ± 1.3 21.	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
LOB 38.8 ± 1.6 5.5 ± 0.8 1.7 ± 0.5 41.2 ± 1.3 0.9 ± 0.3 39.4 ± 0.9 6.5 ± 1.0 TPH 42.9 ± 1.3 44.7 ± 1.7 30.6 ± 1.0 16.6 ± 1.6 18.6 ± 1.3 47.8 ± 2.0 6.3 ± 1.8 CAF 61.1 ± 1.2 58.7 ± 2.2 22.2 ± 1.7 7.0 ± 1.3 12.4 ± 1.2 59.4 ± 1.7 24.4 ± 1.8	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER CAF AZOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STR SAP CUC THE CUC STA COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF CAF COU STR CAF CAF CAF CAF CAF CAF CAF COU STR CAF CAF CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR CAF COU STR COU STR COU STR COU STR COU STR COU STR CAF COU STR STR COU STR STR COU STR STR COU STR STR STR STR COU STR STR STR STR STR STR STR STR STR STR	$+$ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 4.4 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.4 ± 1.2 23.7 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.6 13.5 ± 1.0 14.9 ± 1.1 15.3 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.3 23.6 ± 1.8 25.6 ± 2.4 26.2 ± 1.4 28.9 ± 1.2 33.3 ± 1.4	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \\ \hline \\ \frac{Gr32a^{1}}{5.3 \pm 1.5} \\ 25.4 \pm 1.6 \\ 5.2 \pm 0.9 \\ 6.0 \pm 0.7 \\ 16.8 \pm 1.7 \\ 0.8 \pm 0.3 \\ 11.1 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 8.0 \pm 0.7 \\ 1.5 \pm 2.1 \\ 30.3 \pm 2.1 \\ 29.7 \pm 1.1 \\ \hline $	$\begin{array}{r} {\it G/33a}^2\\ \hline\\ 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 0.5\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.4\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \hline\\ {\it Gr33a}^2\\ \hline\\ 5.2\pm1.3\\ 21.8\pm1.6\\ 14.8\pm1.3\\ 6.2\pm0.8\\ 17.9\pm1.3\\ 1.8\pm0.7\\ 13.7\pm0.9\\ 20.0\pm1.1\\ 7.6\pm1.0\\ 0.8\pm0.8\\ 2.6\pm1.5\\ 7.2\pm1.9\\ 31.5\pm1.3\\ 24.3\pm2.1\\ 24.5\pm1.3\\ \hline\end{array}$	$ \frac{Gr39a^{1}}{2.1 \pm 0.6} \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ 37.0 \pm 1.5 \\ 38.3 \pm 1.4 \\ 32.3 \pm 1.8 \\ 17.1 \pm 1.2 \\ 36.8 \pm 2.3 \\ 40.0 \pm 1.8 \\ 38.3 \pm 1.6 \\ 22.1 \pm 1.0 \\ 27.0 \pm 1.5 \\ 36.8 \pm 1.3 \\ 25.0 \pm 1.3 \\ 23.8 \pm 1.4 \\ 57.5 \pm 3.1 \\ 23.8 \pm $	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} \\ 5.5 \pm 1.0 \\ 4.8 \pm 0.8 \\ 5.8 \pm 1.1 \\ 16.0 \pm 1.7 \\ 1.0 \pm 0.4 \\ 17.5 \pm 1.7 \\ 19.8 \pm 1.2 \\ 19.2 \pm 1.7 \\ 3.4 \pm 0.7 \\ 4.7 \pm 1.2 \\ 4.8 \pm 1.1 \\ 2.4 \pm 0.5 \\ 1.7 \pm 0.9 \\ 3.2 \pm 0.8 \\ 2.3 \pm 0.6 \\ 15.4 \pm 1.1 \\ 6.2 \pm 1.0 \\ 0.4 \pm 0.3 \\ 15.0 \pm 1.5 \\ 22.1 \pm 1.3 \\ \hline \frac{Gr66a^{1}}{1} \\ 0.0 \pm 0.0 \\ 23.1 \pm 1.1 \\ 5.7 \pm 0.8 \\ 5.5 \pm 0.5 \\ 15.0 \pm 1.0 \\ 0.7 \pm 0.3 \\ 4.2 \pm 0.6 \\ 19.3 \pm 1.4 \\ 3.3 \pm 0.6 \\ 0.3 \pm 0.2 \\ 0.6 \pm 0.3 \\ 1.5 \pm 0.5 \\ 15.0 \pm 1.1 \\ 3.8 \pm 2.1 \\ 3.1 \pm 1.6 \\ 3.2 \pm 1.3 \\ 17.4 \pm 1.6 \\ \hline $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a^2 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 24.9 ± 1.3 21.4 ± 1.3 30.2 ± 3.0 29.2 ± 2.0 34.2 ± 1.6	$\begin{tabular}{ c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.4 \\ 33.6 ± 2.8 \\ 30.7 ± 3.6 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 28.2 ± 2.0 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 10.4 ± 1.1 \\ 19.4 ± 2.1 \\ 13.3 ± 0.7 \\ 6.0 ± 1.7 \\ 5.5 ± 1.7 \\ 5.0 ± 1.1 \\ 1.1 ± 0.6 \\ \hline \end{tabular} tabula$
TPH 42.9 ± 1.3 44.7 ± 1.7 30.6 ± 1.0 16.6 ± 1.6 18.6 ± 1.3 47.8 ± 2.0 6.3 ± 1.8 CAF 61.1 ± 1.2 58.7 ± 2.2 22.2 ± 1.7 7.0 ± 1.3 12.4 ± 1.2 59.4 ± 1.7 2.4 ± 1.2	S-a TCC MYR ESC ROT SAP THE QUI TPH CUC SOA COU STR UMB DENS BER AZA ALOB S-b TCC MYR GOS ROT ESC DEET QUI ARI BER DEN STR SAP CUC STA COU STR CAF ALOB S-b TCC SOA COU STR CAF ALOB S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b TCC SOA COU STR S-b S-C SC S-B S-C SC SC SC SC SC SC SC SC SC SC SC SC SC	$+$ 1.4 ± 0.4 2.8 ± 1.0 4.0 ± 0.8 4.0 ± 0.7 4.4 ± 0.7 13.8 ± 1.2 14.5 ± 0.6 15.8 ± 1.6 16.6 ± 1.0 19.4 ± 0.7 20.5 ± 1.0 21.3 ± 1.8 22.4 ± 1.0 23.4 ± 1.2 23.7 ± 1.0 24.3 ± 0.9 26.7 ± 1.1 26.9 ± 1.1 28.4 ± 1.9 29.9 ± 1.0 40.5 ± 1.5 $+$ $+$ 3.0 ± 0.9 1.4 ± 0.4 5.8 ± 1.6 13.5 ± 1.0 14.9 ± 1.1 15.8 ± 0.6 13.5 ± 1.2 16.4 ± 0.9 21.0 ± 1.2 21.5 ± 0.9 22.5 ± 1.8 23.5 ± 1.3 23.6 ± 1.4 25.6 ± 2.4 26.2 ± 1.4 26.2 ± 1.4 26.2 ± 1.4 26.6 ± 1.4 25.6 ± 2.4 26.2 ± 1.4 26.6 ± 1.4 26.7 ± 1.4 26.9 ± 1.2 33.3 ± 1.4 36.7 ± 0.7	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 9.5 \pm 1.6 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \\ \hline \\ \frac{Gr32a^{1}}{5.3 \pm 1.5} \\ 25.4 \pm 1.6 \\ 5.2 \pm 0.9 \\ 6.0 \pm 0.7 \\ 16.8 \pm 1.7 \\ 0.8 \pm 0.3 \\ 11.1 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.1 \pm 0.3 \\ 4.1 \pm 1.1 \\ 8.0 \pm 0.7 \\ 1.5 \pm 2.1 \\ 30.3 \pm 2.1 \\ 29.7 \pm 1.1 \\ 6.6 \pm 1.8 \\ 4.0 \pm 0.7 \\ \hline $	$\begin{array}{r} {\it G/33a}^2 \\ \hline 0.0 \pm 0.0 \\ 3.6 \pm 1.4 \\ 4.9 \pm 1.5 \\ 4.0 \pm 0.5 \\ 10.7 \pm 2.2 \\ 15 \pm 1.9 \\ 0.0 \pm 0.0 \\ 21.1 \pm 1.4 \\ 17.5 \pm 1.0 \\ 5.8 \pm 0.8 \\ 4.6 \pm 1.2 \\ 1.9 \pm 0.7 \\ 8.3 \pm 1.4 \\ 6.8 \pm 1.5 \\ 0.3 \pm 0.2 \\ 12.4 \pm 2.3 \\ 1.3 \pm 0.5 \\ 12.3 \pm 1.4 \\ 0.5 \pm 0.3 \\ 33.6 \pm 2.5 \\ 0.1 \pm 0.1 \\ 0.5 \pm 0.3 \\ 33.6 \pm 2.5 \\ 0.1 \pm 0.1 \\ 0.1 \pm 0.1 \\ \hline \begin{array}{c} {\it Gr33a}^2 \\ \hline \\ 5.2 \pm 1.3 \\ 21.8 \pm 1.6 \\ 14.8 \pm 1.5 \\ 0.3 \pm 0.2 \\ 0.1 \pm 0.1 \\ \hline \\ \hline \\ {\it Gr33a}^2 \\ \hline \\ 5.2 \pm 1.3 \\ 21.8 \pm 1.6 \\ 14.8 \pm 1.7 \\ 1.3 7 \pm 0.9 \\ 20.0 \pm 1.1 \\ 7.6 \pm 1.0 \\ 0.8 \pm 0.8 \\ 2.6 \pm 1.3 \\ 19.6 \pm 0.7 \\ 7.2 \pm 1.9 \\ 31.5 \pm 1.3 \\ 31.6 \pm 1.7 \\ 7.2 \pm 1.3 \\ 32.4 \pm 2.1 \\ 24.5 \pm 1.3 \\ 37.6 \pm 1.7 \\ 72.6 \pm 1.2 \\ \hline \end{array}$	$ \frac{Gr39a^{1}}{2.1 \pm 0.6} \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ 37.0 \pm 1.5 \\ 38.3 \pm 1.4 \\ 57.5 \pm 3.1 \\ 41.4 \pm 2.8 \\ 32.1 \pm 1.6 \\ 32.1 \pm 1.6 \\ 33.1 \pm $	$ \frac{Gr66a^{1}}{2.9 \pm 0.5} $ 5.5 ± 1.0 4.8 ± 0.8 5.8 ± 1.1 16.0 ± 1.7 1.0 ± 0.4 17.5 ± 1.7 19.8 ± 1.2 19.2 ± 1.7 3.4 ± 0.7 4.7 ± 1.2 4.8 ± 1.1 2.4 ± 0.5 1.7 ± 0.9 3.2 ± 0.8 2.3 ± 0.6 15.4 ± 1.1 6.2 ± 1.0 0.4 ± 0.3 15.0 ± 1.5 22.1 ± 1.3 $ \frac{Gr66a^{1}}{2.2 \pm 1.7} $ 0.0 ± 0.0 23.1 ± 1.1 5.7 ± 0.8 5.5 ± 0.5 15.0 ± 1.0 0.7 ± 0.3 4.2 ± 0.6 19.3 ± 1.4 3.3 ± 0.6 0.3 ± 0.2 0.6 ± 0.3 1.5 ± 0.5 28.7 ± 1.1 3.8 ± 2.1 31.8 ± 1.6 3.2 ± 1.3 17.4 ± 1.6 4.4 ± 1.7 4.2 ± 0.8	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.8 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 26.0 ± 1.7 27.9 ± 2.2 25.9 ± 2.2 34.4 ± 1.1 Gr89a^2 4.0 ± 0.6 2.2 ± 0.7 8.5 ± 1.4 4.7 ± 0.6 13.5 ± 1.1 15.0 ± 1.2 14.0 ± 1.3 19.5 ± 1.4 20.8 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 28.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 23.9 ± 2.4 30.2 ± 3.0 30.2 ± 3.0 29.2 ± 2.0 34.2 ± 1.6 32.0 ± 2.2 36.9 ± 2.8 36.9 ± 2.8 ± 36.9	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$
the second second second the second sec	S-a TCC MYR ESC ROS ARI DEAP THE QUI TPHE QUI TPHE QUI TPHE CUC SOA COU STR UMB DEN SBER CAFA ALOB S-b TCC MYR GOS ROT ESC DEET QUI ARI SDA SAP CUC SCA CAFA COU STR DES S-b TCC MYR S-b TCC SOA CAFA COU STR DES S-b TCC SOA CAFA CAFA CAFA CAFA CAFA CAFA CAFA CA	$\begin{array}{c} + \\ 1.4 \pm 0.4 \\ 2.8 \pm 1.0 \\ 4.0 \pm 0.8 \\ 4.0 \pm 0.7 \\ 4.4 \pm 0.7 \\ 13.8 \pm 1.2 \\ 14.5 \pm 0.6 \\ 15.8 \pm 1.6 \\ 16.6 \pm 1.0 \\ 19.4 \pm 0.7 \\ 20.5 \pm 1.0 \\ 21.3 \pm 1.8 \\ 22.4 \pm 1.0 \\ 23.7 \pm 1.0 \\ 24.0 \pm 1.1 \\ 28.4 \pm 1.9 \\ 29.9 \pm 1.0 \\ 40.5 \pm 1.5 \\ \end{array}$	$ \frac{Gr32a^{1}}{1.2 \pm 0.9} \\ 4.7 \pm 1.5 \\ 6.2 \pm 0.7 \\ 4.8 \pm 0.7 \\ 2.7 \pm 0.5 \\ 16.7 \pm 1.2 \\ 0.5 \pm 0.4 \\ 20.7 \pm 3.3 \\ 20.2 \pm 1.0 \\ 22.6 \pm 1.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.9 \\ 2.1 \pm 0.4 \\ 20.2 \pm 1.6 \\ 0.4 \pm 0.3 \\ 27.8 \pm 1.7 \\ 0.6 \pm 0.2 \\ 4.9 \pm 1.5 \\ 1.1 \pm 0.4 \\ 36.9 \pm 1.6 \\ 3.3 \pm 0.6 \\ 2.5 \pm 0.8 \\ \hline \\ \frac{Gr32a^{1}}{5.3 \pm 1.5} \\ 25.4 \pm 1.6 \\ 5.2 \pm 0.9 \\ 6.0 \pm 0.7 \\ 16.8 \pm 1.7 \\ 0.8 \pm 0.3 \\ 11.1 \pm 0.7 \\ 21.2 \pm 1.4 \\ 8.3 \pm 0.7 \\ 1.5 \pm 2.1 \\ 30.3 \pm 2.1 \\ 29.7 \pm 1.1 \\ 6.6 \pm 1.0 \\ 3.1 \pm 0.7 \\ 21.5 \pm 0.8 \\ \hline \\ \end{array}$	$\begin{array}{r} {\it G/33a}^2\\ \hline\\ 0.0\pm0.0\\ 3.6\pm1.4\\ 4.9\pm1.5\\ 4.0\pm0.5\\ 10.7\pm2.2\\ 15\pm1.9\\ 0.0\pm0.0\\ 21.1\pm1.4\\ 17.5\pm1.0\\ 5.8\pm0.8\\ 4.6\pm1.2\\ 1.9\pm0.7\\ 8.3\pm1.4\\ 6.8\pm1.5\\ 0.3\pm0.2\\ 12.4\pm2.3\\ 1.3\pm0.5\\ 12.3\pm1.4\\ 0.5\pm0.3\\ 33.6\pm2.5\\ 0.1\pm0.1\\ \hline\\ {\it Gr33a}^2\\ \hline\\ 5.2\pm1.3\\ 21.8\pm1.6\\ 14.8\pm1.3\\ 6.2\pm0.8\\ 17.9\pm1.3\\ 1.8\pm0.7\\ 13.7\pm0.9\\ 20.0\pm1.1\\ 7.6\pm1.0\\ 0.8\pm0.8\\ 2.6\pm1.5\\ 7.2\pm1.9\\ 31.5\pm1.3\\ 19.6\pm0.7\\ 28.5\pm1.5\\ 7.2\pm1.9\\ 31.5\pm1.3\\ 37.6\pm1.7\\ 24.5\pm1.3\\ 37.6\pm1.2\\ 37.6\pm1.2\\ 1.7\pm0.5\\ \hline\end{array}$	$ \frac{Gr39a^{1}}{2.1 \pm 0.6} \\ 2.5 \pm 0.9 \\ 4.3 \pm 0.6 \\ 6.6 \pm 1.1 \\ 14.6 \pm 1.1 \\ 17.0 \pm 1.8 \\ 22.1 \pm 1.4 \\ 19.2 \pm 1.2 \\ 22.8 \pm 1.3 \\ 9.2 \pm 1.0 \\ 30.2 \pm 1.4 \\ 26.0 \pm 0.9 \\ 22.2 \pm 2.7 \\ 41.1 \pm 1.7 \\ 17.0 \pm 1.5 \\ 35.3 \pm 1.4 \\ 50.6 \pm 3.1 \\ 33.9 \pm 1.9 \\ 2.3 \pm 0.5 \\ 37.0 \pm 1.9 \\ 38.0 \pm 1.5 \\ \hline $	$ \frac{Gr66a^{1}}{2,9 \pm 0.5} $ $ 5.5 \pm 1.0 $ $ 4.8 \pm 0.8 $ $ 5.8 \pm 1.1 $ $ 16.0 \pm 1.7 $ $ 1.9.2 \pm 1.7 $ $ 19.8 \pm 1.2 $ $ 19.2 \pm 1.7 $ $ 3.4 \pm 0.7 $ $ 4.7 \pm 1.2 $ $ 4.8 \pm 1.1 $ $ 2.4 \pm 0.5 $ $ 1.7 \pm 0.9 $ $ 3.2 \pm 0.8 $ $ 2.3 \pm 0.6 $ $ 15.4 \pm 1.1 $ $ 6.2 \pm 1.0 $ $ 0.4 \pm 0.3 $ $ 15.0 \pm 1.5 $ $ 22.1 \pm 1.3 $ $ \frac{Gr66a^{1}}{2,2 \pm 0.8 } $ $ 5.5 \pm 0.5 $ $ 15.0 \pm 1.0 $ $ 0.7 \pm 0.3 $ $ 4.2 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 19.3 \pm 1.4 $ $ 3.3 \pm 0.6 $ $ 0.3 \pm 0.2 $ $ 0.6 \pm 0.3 $ $ 17.4 \pm 1.6 $ $ 3.2 \pm 1.3 $ $ 17.4 \pm 1.6 $ $ 4.4 \pm 1.7 $ $ 4.2 \pm 0.8 $ $ 0.9 \pm 0.3 $	$\frac{Gr89a^2}{1.4 \pm 0.5}$ 1.4 ± 0.5 1.3 ± 0.5 2.6 ± 0.7 5.6 ± 0.7 5.6 ± 1.2 16.0 ± 1.1 13.8 ± 0.8 18.4 ± 1.4 12.2 ± 1.2 17.8 ± 1.1 23.8 ± 2.4 18.8 ± 1.5 20.0 ± 0.7 17.8 ± 1.1 30.9 ± 0.8 19.1 ± 1.1 24.1 ± 1.0 26.9 ± 1.0 27.9 ± 2.2 34.4 ± 1.1 29.8 ± 1.1 29.6 ± 1.7 22.7 ± 1.2 22.9 ± 1.3 21.4 ± 1.3 30.2 ± 3.0 29.2 ± 2.0 34.2 ± 1.6 32.0 ± 2.2 36.9 ± 2.8 39.4 ± 0.9	$\begin{tabular}{ c c c c c } \hline $Gr93a^3$ \\ \hline 0.8 \pm 0.8 \\ 34.7 ± 2.5 \\ 27.3 ± 2.5 \\ 27.3 ± 2.5 \\ 3.3 ± 0.4 \\ 33.6 ± 2.8 \\ 30.7 ± 3.6 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 26.2 ± 1.9 \\ 28.2 ± 2.0 \\ 28.2 ± 2.0 \\ 29.5 ± 4.2 \\ 29.8 ± 4.2 \\ 21.0 ± 2.1 \\ 19.4 ± 2.1 \\ 119.4 ± 2.1 \\ 13.3 ± 0.7 \\ 6.0 ± 1.7 \\ 5.5 ± 1.6 \\ 7.5 ± 1.6 \\ 7.5 ± 1.6 \\ 7.5 ± 1.6 \\ 10.7 ± 1.3 \\ 6.5 ± 1.0 \\ 10.7 ± 1.3 \\ 6.5 ± 1.0 \\ \end{tabular}$

Table S2. Responses in spikes/s of bitter neuron classes to tastants. Related to Figure 2. All errors areSEM. n>10 for 98% of the 587 genotype-tastant-sensillum class combinations; 7<n<10 for the remaining 2%.</td>

Α	1	L1	L2	L3	L4	L5	L6	L7	L8	L9	10	11	12	13	14	15	16	17	18	19	110	S0	S1	S2 5	33	S4	S5	S6	S7	S8	S9	S10
	TCC CAF UMB TPH THE COU DEN BER LOB	0 1 0 0 0 0 0 3 0	0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0	0 1 0 0 0 0 1 0 0	0 0 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0	0 2 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 3 2 0 2 0 15 24 20	0 0 0 1 2 17 23 21	0 2 1 0 1 23 25 25	0 0 1 0 1 23 29 25	0 3 0 1 0 0 15 19 26	0 0 0 0 0 19 22 20	0 0 1 0 3 0 25 19 31	0 8 13 11 6 3 14 28 19	0 32 41 38 10 24 0 1 1	0 44 36 32 11 13 0 1 0	0 38 36 36 11 16 0 1 3	0 27 29 16 10 30 15 27 18	0 24 24 16 9 26 12 23 20	0 37 33 4 15 4 11 33 4 16 2 31 20 20 2	5 47 45 45 43 21 29 25	0 3 0 0 0 0 0 0 0	8 50 57 45 35 40 18 24 29	0 31 36 15 17 25 20 31 29	1 33 39 27 19 23 22 30 18	0 0 0 0 0 0 0 0 0 0	9 55 45 44 27 45 18 26 28	0 36 30 13 13 23 19 37 27
В	TCC CAF UMB TPH THE COU DEN BER LOB	L1 0 0 0 0 0 0 0 0 0 0	L2 0 0 0 0 0 0 0 0 0 0	L3 0 0 0 0 9 0 0 0 0	L4 0 0 0 0 0 9 0 0 0 0	L5 0 0 1 0 0 0 0 0	L6 0 1 1 0 0 0 0 0	L7 0 0 0 0 5 0 0 0 0	L8 0 0 1 0 0 0 0 0 0	L9 0 0 1 0 0 0 0 0	10 0 39 20 34 9 20 9 0 3	11 0 37 22 30 14 25 6 0 0	12 0 29 30 39 9 24 4 0 1	l3 0 27 25 10 26 4 0 3	14 0 30 26 25 10 26 3 0 2	15 0 41 26 39 11 29 5 0 0	16 0 33 17 35 13 22 3 0 0	17 0 35 35 32 13 19 5 1 0	18 0 58 29 36 11 27 8 1 0	l9 0 61 31 10 25 5 0 1	110 0 55 31 26 13 26 3 1 0	S0 0 55 22 24 0 64 40 89 33	S1 0 56 27 37 0 53 39 81 33	S2 S 0 62 4 16 7 30 4 1 68 0 37 78 48	63 55 16 42 0 69 1 0 0	S4 0 0 0 0 0 0 0 0 0	S5 0 53 17 29 3 55 4 0 0	S6 0 62 21 34 0 77 60 103 44	S7 0 55 18 28 2 57 53 48 40	S8 0 0 0 0 0 0 0 0 0	S9 0 53 15 20 1 55 1 0 0	S10 1 54 15 26 3 7 53 93 33
С		L1	L2	L3	L4	L5	L6	L7	L8	8 L	9	11	12	13	14	15	16	17	18	19	110	S0	S1	S2	Sa	8 5	64	S5	S6	S7	S8	S9
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0	0 1 0 0 1 0 1 0	0 0 0 0 1 0 0 0)))) 1 ···)))	0 0 0 16 19 9	0 1 0 0 17 17 7 37	0 0 1 0 16 19 9 31	0 1 2 1 17 15 8 33	0 1 5 0 14 22 9 27	0 0 1 0 1 19 16 8 38	0 3 0 2 11 17 9 37	0 2 3 15 23 11 43	0 3 1 0 17 21 9 43	0 0 1 0 13 25 13 36	0 0 0 1 22 22 17 15	0 2 0 0 29 14 19 20	0 3 19 1 16 24 19 57 54	0 0 0 0 0 0 0 0	2 1 1 2	0 3 0 2 25 19 19 27	0 6 4 0 7 35 36 53 48	0 1 25 7 2 48 26 37 40	0 1 0 0 0 0 0 0 0	0 25 3 4 27 43 42 35	0 4 1 0 31 24 30 33
D		L1	L2	L3	L4	L5	L6	L7	L8	LS	ə 1	0	11	12	13	14	15	16	17	18	19	I10	S1	S2	S3	S	4 3	S5	S6	S7	S8	S9
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0 0 0	0 0 1 0 0 1 0 0	0 0 2 0 0 5 0 0	0 0 0 3 3 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 3 2 0 0	0 0 0 5 1 0			0 7 5 11 3 7 2 5 9	0 17 9 8 3 5 9 19 11	0 15 9 10 1 7 13 18 12	0 12 9 0 5 9 25 13	0 14 9 11 7 12 36 11	0 11 8 11 2 7 11 19 17	0 16 12 12 1 9 14 26 12	0 18 8 21 0 5 14 23 10	0 14 15 11 13 10 25 13	0 11 13 11 3 7 13 20 13	0 13 15 3 16 9 22 17	0 5 27 15 25 19 28 44 24	9 23 40 71 15 39 26 25 50	0 0 0 0 0 0 0 0 0	2: 1: 1: 2: 1: 6: 3:	7 4 3 4 3 6 5 2 1 9 2 0 4 1	6 30 41 60 20 18 24 19 40	6 23 24 13 17 22 28 55 29	0 0 0 0 0 0 0 0 0	1 33 36 45 23 23 21 23 32	5 3 18 3 19 17 24 50 31
Е	1	L1	L2	L3	L4	L5	L6	L7	L8	L9	10	11	12	13	14	15	16	17	18	19	110	S0	S1	S2 S	53	S4	S5	S6	S7	S8	S9	S10
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0 1	0 0 0 0 0 1 1 1	0 0 0 0 0 0 0 0 0	0 1 0 0 0 1 0 0	0 0 0 0 0 1 0 0	0 0 0 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0	0 1 1 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 1 1 0 1 0 3 4 3	0 0 0 1 1 2 3 4	0 1 1 0 1 3 5 3	0 0 1 0 1 1 3 3	0 1 0 1 0 1 5 1	0 0 0 0 0 3 1 2	0 0 1 0 1 0 4 1 4	0 0 2 1 1 3 4 3	0 5 1 1 1 0 1	0 3 1 1 2 0 1 0	0 3 1 1 2 0 1 1	0 4 1 1 5 2 5 1	0 1 4 1 7 1 2 1	0 3 1 1 6 1 4 2	1 2 1 6 5 7 1 4 4	0 1 0 0 0 0 0 0 0	1 4 1 2 4 4 2 4 4 4	0 3 1 1 2 3 1 7	1 4 1 3 1 2 3 1	0 0 0 0 0 0 0 0 0	1 4 2 4 2 5 1 2 5	0 6 2 1 1 6 2 7 2
F		L1	L2	L3	L4	L5	L6	L7	L8	L9	10	11	12	13	14	15	16	17	18	19	110	S0	S1	S2 5	33	S4	S5	S6	S7	S8	S9	S10
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0	0 0 1 1 0 0 0 0 0	0 0 1 0 0 0 0 0	0 0 1 1 0 0 0 0 0	0 0 0 0 2 0 0 0 0	0 0 1 0 0 0 0 0 0	0 0 1 0 0 0 0 0	0 2 7 4 1 2 3 0 1	0 3 7 1 4 2 0 0	0 1 6 2 6 2 0 1	0 1 2 4 1 4 4 0 3	0 1 4 6 1 3 1 0 1	0 1 1 9 2 2 3 0 0	0 2 1 4 2 3 1 0 0	0 6 2 5 1 6 2 1 0	0 1 3 2 2 2 2 2 1 0	0 2 5 6 1 2 1 0	0 1 4 1 2 1 1 1 0	0 4 4 1 0 3 2 5 2	0 6 2 4 0 4 4 4 4 1 4	0 4 2 5 1 2 4 4 6	0 8 2 3 0 4 1 0 0	0 0 0 0 0 0 0 0 0	0 7 1 5 3 10 2 0 0	0 2 2 4 0 6 7 4 4	0 7 5 4 2 8 2 7 10	0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 8 1 0 0	1 4 1 2 3 6 6 2
G		L1	L2	L3	L4	L5	L6	L7	' L8	8 L	9	11	12	13	14	15	16	17	18	19	110	S0	S1	S2	S3	3 5	64	S5	S6	S7	S8	S9
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0	0 0 0 0 0 0 0 0 0	0 1 0 0 1 0 1 0	0 0 0 0 0 1 0 0		0 0 0 0 0 1 0 0 0	0 0 0 0 2 4 2 1	0 1 0 0 1 2 1 1	0 0 1 0 3 1 2 2	0 1 1 1 1 2 3 2	0 1 0 0 1 2 2 1	0 0 1 0 1 2 4 3 4	0 2 0 2 1 2 1 1 1	0 0 1 1 1 1 1 3 2	0 0 2 1 0 2 1 1 4	0 0 1 0 0 1 1 2 2	0 0 0 1 5 5 4 3	0 1 1 0 5 1 2 4	0 1 3 1 3 8 5 2 4			0 3 2 0 2 3 2 5 1	0 2 1 0 2 6 3 3 3 3	0 1 4 2 1 10 6 8	0 1 0 0 0 0 0 0 0	0 0 3 1 2 2 6 7 2	0 1 1 0 7 1 3 2
Η		L1	L2	L3	L4	L5	L6	L7	L8	LS) I	0	11	12	13	14	15	16	17	18	19	110	S1	S2	S3	S	4 \$	S5	S6	S7	S8	S9
	TCC CAF UMB TPH THE COU DEN BER LOB	0 0 0 0 0 0 0 0	0 0 1 0 1 0 0	0 0 2 0 0 2 0 0	0 0 0 2 1 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 2 1 0 0	0 0 0 0 2 1 0 0))))))	0 2 1 1 3 1 3 1	0 1 1 1 1 1 3 2	0 3 2 1 2 1 3 2	0 2 1 0 1 1 3 2	0 2 1 2 1 2 2 2 2	0 2 1 1 1 1 2 1	0 2 1 2 1 2 1 2 3	0 1 1 0 1 1 2 1	0 2 3 2 1 3 1 1 2	0 1 1 2 1 2 3 1	0 3 4 1 4 2 1	0 1 2 4 1 4 2 6 3	1 2 4 5 1 8 3 4 4			2 2 3 2 3 2 3 4 4 3	2 4 6 4 2 5 5 5	2 2 3 1 6 4 5 4	0 0 0 0 0 0 0 0	1 2 4 5 6 3 1 3	1 1 2 4 3 2 7

Table S3. Responses in spikes/s of labellar sensilla of four species to bitter compounds. Related to Figure 6. (A), Drosophila melanogaster; (B) D. simulans; (C) D. sechellia; (D) D. erecta. n = 3-10. The D. melanogaster used here was Canton-S, without the w mutation contained within the genetic background control used in other experiments. Doses are provided in Materials and Methods. SEM, in spikes/s, for (E), Drosophila melanogaster; (F) D. simulans; (G) D. sechellia; (H) D. erecta.

Supplemental references

S1. Poudel, S., and Lee, Y. (2016). Gustatory Receptors Required for Avoiding the Toxic Compound Coumarin in Drosophila melanogaster. Mol Cells *39*, 310-315.