

Table S2

Results of fuzzy clustering and its comparison with PAM clusters. The numbers are probabilities of membership for given cluster. Probabilities < 0.2 are omitted

SPECIES	PAM CLUSTER	FUZZY CLUSTERS			
		1	2	3	4
<i>A. monachus</i>	<i>polyphagous</i>	0.47	0.27		
<i>D. minutus</i>	<i>intermediate</i>	0.22	0.39	0.21	
<i>L. brunneus</i>	<i>polyphagous</i>	0.51	0.23		
<i>A. planipennis</i>	<i>intermediate</i>	0.34	0.40	0.21	
<i>L. festiva</i>	<i>polyphagous</i>	0.66			
<i>P. archon</i>	<i>polyphagous</i>	0.43	0.30		
<i>A. chinensis</i>	<i>polyphagous</i>	0.74			
<i>A. glabripennis</i>	<i>polyphagous</i>	0.76			
<i>A. bungii</i>	<i>polyphagous</i>	0.34	0.29	0.27	
<i>C. rufipenne</i>	<i>polyphagous</i>	0.52	0.25		
<i>P. recurva</i>	<i>intermediate</i>		0.68		
<i>P. semipunctata</i>	<i>intermediate</i>		0.69		
<i>P. hilaris</i>	<i>polyphagous</i>	0.45	0.34		
<i>R. rusticus</i>	<i>polyphagous</i>	0.75			
<i>T. fuscum</i>	<i>aggressive</i>		0.27	0.46	
<i>T. campestris</i>	<i>polyphagous</i>	0.72			
<i>X. chinensis</i>	<i>polyphagous</i>	0.31	0.36	0.23	
<i>A. dispar</i>	<i>inbred</i>				0.62
<i>C. lapathi</i>	<i>polyphagous</i>	0.78			
<i>D. micans</i>	<i>inbred</i>	0.22	0.28		0.33
<i>D. valens</i>	<i>aggressive</i>		0.21	0.62	
<i>E. destruens</i>	<i>inbred</i>				0.93
<i>H. ater</i>	<i>intermediate</i>		0.39	0.36	
<i>H. opacus</i>	<i>intermediate</i>		0.55	0.25	
<i>H. ligniperda</i>	<i>intermediate</i>		0.69		
<i>I. cembrae</i>	<i>aggressive</i>			0.83	
<i>M. mutatus</i>	<i>polyphagous</i>	0.35	0.24	0.20	0.21
<i>O. erosus</i>	<i>aggressive</i>		0.35	0.49	
<i>P. armatus</i>	<i>aggressive</i>		0.37	0.40	
<i>P. rudis</i>	<i>intermediate</i>		0.63	0.20	
<i>P. juglandis</i>	<i>aggressive</i>			0.69	
<i>P. proximus</i>	<i>aggressive</i>			0.84	
<i>R. ferrugineus</i>	<i>intermediate</i>	0.21	0.35	0.29	
<i>S. multistriatus</i>	<i>aggressive</i>			0.85	
<i>S. schevyrewi</i>	<i>aggressive</i>		0.35	0.48	
<i>T. piniperda</i>	<i>aggressive</i>		0.21	0.64	
<i>X. saxesenii</i>	<i>inbred</i>				0.76
<i>X. affinis</i>	<i>inbred</i>				0.78
<i>X. glabratus</i>	<i>inbred</i>				0.79
<i>X. perforans</i>	<i>inbred</i>				0.93
<i>X. similis</i>	<i>inbred</i>				0.89
<i>X. compactus</i>	<i>inbred</i>				0.89
<i>X. crassiusculus</i>	<i>inbred</i>				0.93
<i>X. germanus</i>	<i>inbred</i>				0.78
<i>X. morigerus</i>	<i>inbred</i>				0.92
<i>S. noctilio</i>	<i>aggressive</i>	0.28	0.25	0.29	
<i>T. fuscicornis</i>	<i>inbred</i>	0.3	0.26		0.26

Table S3

Contributions of traits to principal components for FAMD (invasive species only)

TRAITS	DIM.1	DIM.2	DIM.3	DIM.4	DIM.5
Fecundity	5.7	0.9	13.6	0.6	27.5
Phleophagy	10.4	6.5	3.0	6.2	1.5
Xylophagy	5.6	11.5	9.3	0.0	0.6
Xylomycetophagy	15.0	3.3	0.2	2.7	6.4
Inbreeding	17.8	1.5	0.1	0.0	0.3
Symbiotic plant pathogens	1.1	6.3	14.2	19.9	5.1
Long-range sex pheromones	2.6	9.2	9.0	2.9	2.8
Aggregation pheromones	1.6	15.0	0.0	9.4	20.0
Maturation feeding	3.2	4.8	9.0	15.5	2.6
Food spectra	3.5	21.4	17.1	38.6	20.0
Flyless	17.8	1.2	0.6	0.2	0.8
Polyvoltinism	5.6	7.8	4.4	3.4	5.9
Monovoltinism	4.4	1.6	19.2	0.8	5.1
Multy-year life cycle	5.7	9.1	0.5	0.0	1.2

Table S4

Contributions of traits to principal components for FAMD (invasive vs. non-invasive species)

TRAITS	DIM.1	DIM.2	DIM.3	DIM.4	DIM.5	DIM.6
Fecundity	3.4	3.1	13.3	0.5	9.8	13.1
Phleophagy	8.7	10.4	1.9	3.1	6.1	0.4
Xylophagy	6.6	10.3	0.0	0.2	7.3	9.4
Xylomycetophagy	15.6	3.5	0.4	2.5	0.3	1.3
Inbreeding	18.2	2.1	0.1	0.2	0.9	0.0
Symbiotic plant pathogens	1.2	6.9	11.9	21.1	3.8	0.0
Long-range sex pheromones	2.7	8.5	14.3	2.9	0.1	1.1
Aggregation pheromones	0.7	13.5	7.5	11.3	2.0	5.8
Maturation feeding	3.7	4.4	15.3	5.2	0.6	0.5
Food spectra	3.0	19.1	3.6	41.9	10.0	19.1
Flyless	17.2	2.5	0.1	0.1	0.8	1.4
Polyvoltinism	6.8	6.3	2.6	3.4	10.6	11.8
Monovoltinism	3.2	0.0	4.3	0.1	45.7	8.9
Multy-year life cycle	6.8	8.4	1.5	0.2	0.1	0.7
Invasiveness	2.3	0.9	23.2	7.5	1.8	26.3