–

Table 1

Family	Genus	Species
Brassicaceae	Brassica	Brassica rapa
Brassicaceae	Brassica	Brassica oleracea
Brassicaceae	Eruca	Eruca versicaria
Brassicaceae	Sinapis	Sinapis alba
Convolvulaceae	Ipomoea	Ipomoea aquatica
Convolvulaceae	Ipomoea	Ipomoea purpurea
Solanaceae	Capsicum	Capsicum annuum
Solanaceae	Petunia	Petunia integrifolia
Solanaceae	Solanum	Solanum lycopersicum
Solanaceae	Solanum	Solanum melongena

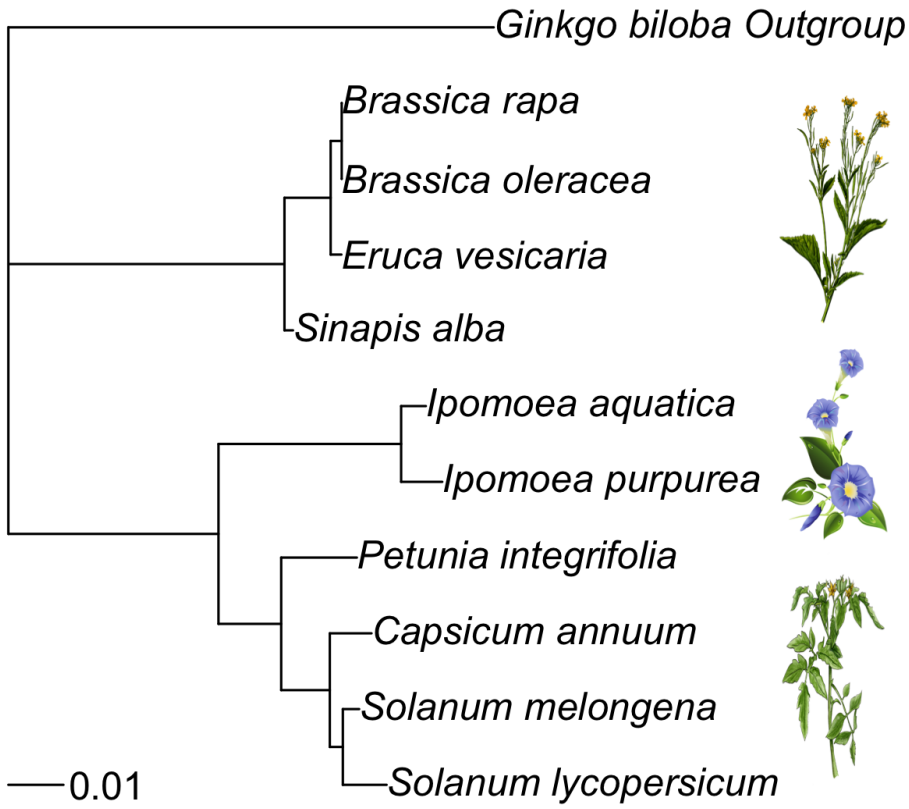
Ginkgo biloba Outgroup
Brassica rapa
Brassica oleracea
Eruca vesicaria
Sinapis alba
Ipomoea aquatica
Ipomoea purpurea
Petunia integrifolia
Capsicum annuum
Solanum melongena
Solanum lycopersicum
0.01

Figure 1

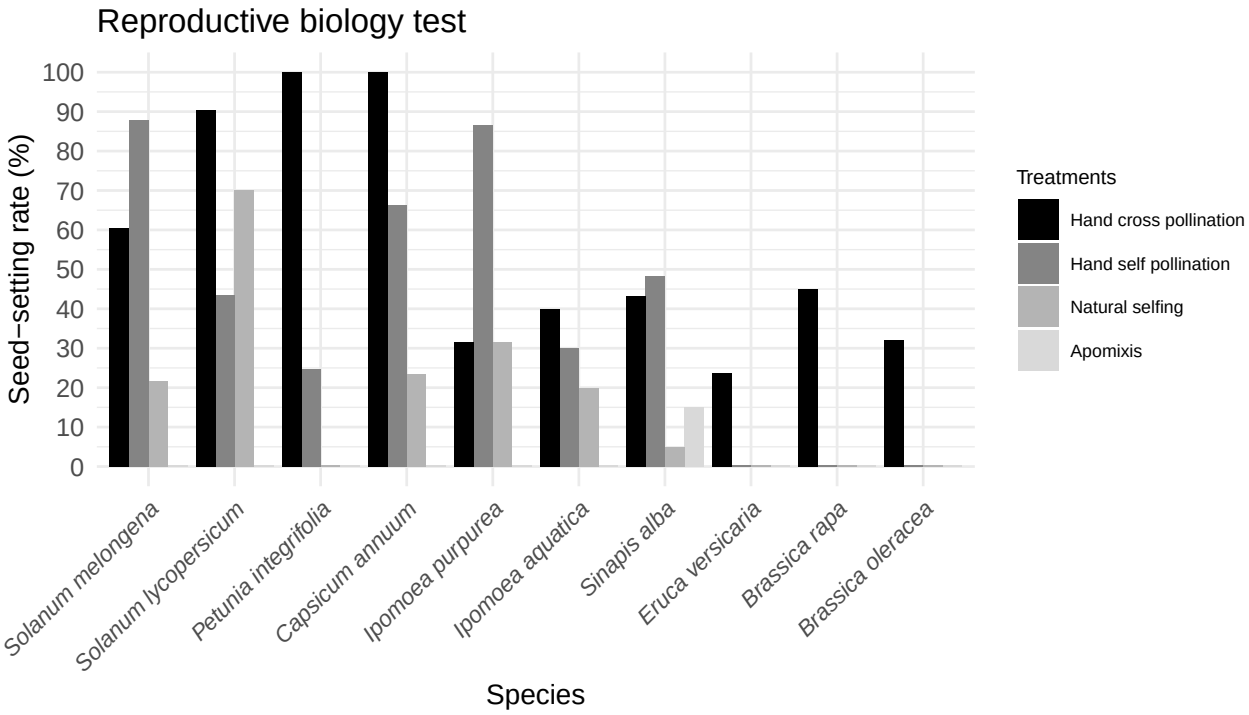
Reproductive biology test
Seed−setting rate (%)
100
90
80
70
60
50
40
30
20
10
0
Solanum melongena
Solanum lycopersicum
Petunia integrifolia
Capsicum annuum
Ipomoea purpurea
Ipomoea aquatica
Sinapis alba
Eruca versicaria
Brassica rapa
Brassica oleracea
Species
Treatments
Hand cross pollination
Hand self pollination
Natural selfing
Apomixis

Figure 2

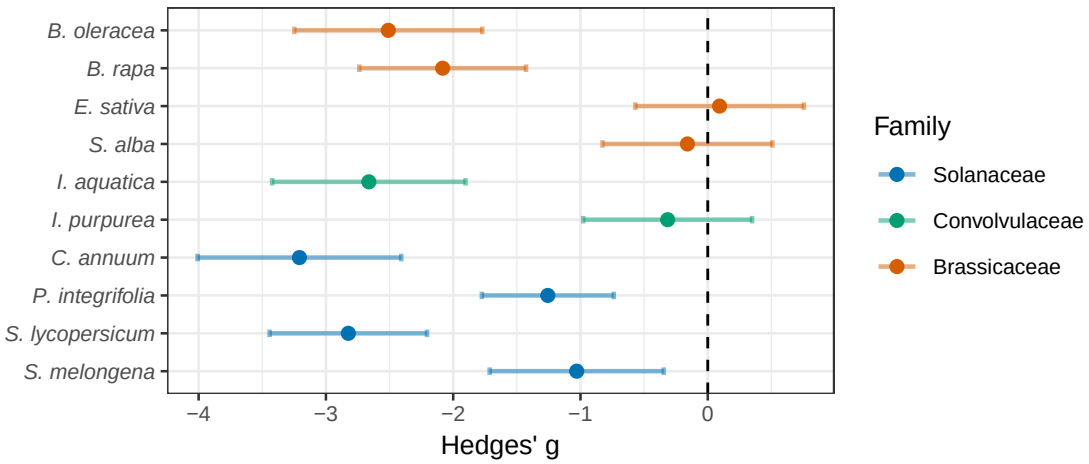
B. oleracea
B. rapa
E. sativa
S. alba
I. aquatica
I. purpurea
C. annuum
P. integrifolia
S. lycopersicum
S. melongena
−4
−3
−2
−1
0
Hedges' g
Family
Solanaceae
Convolvulaceae
Brassicaceae

Figure 3

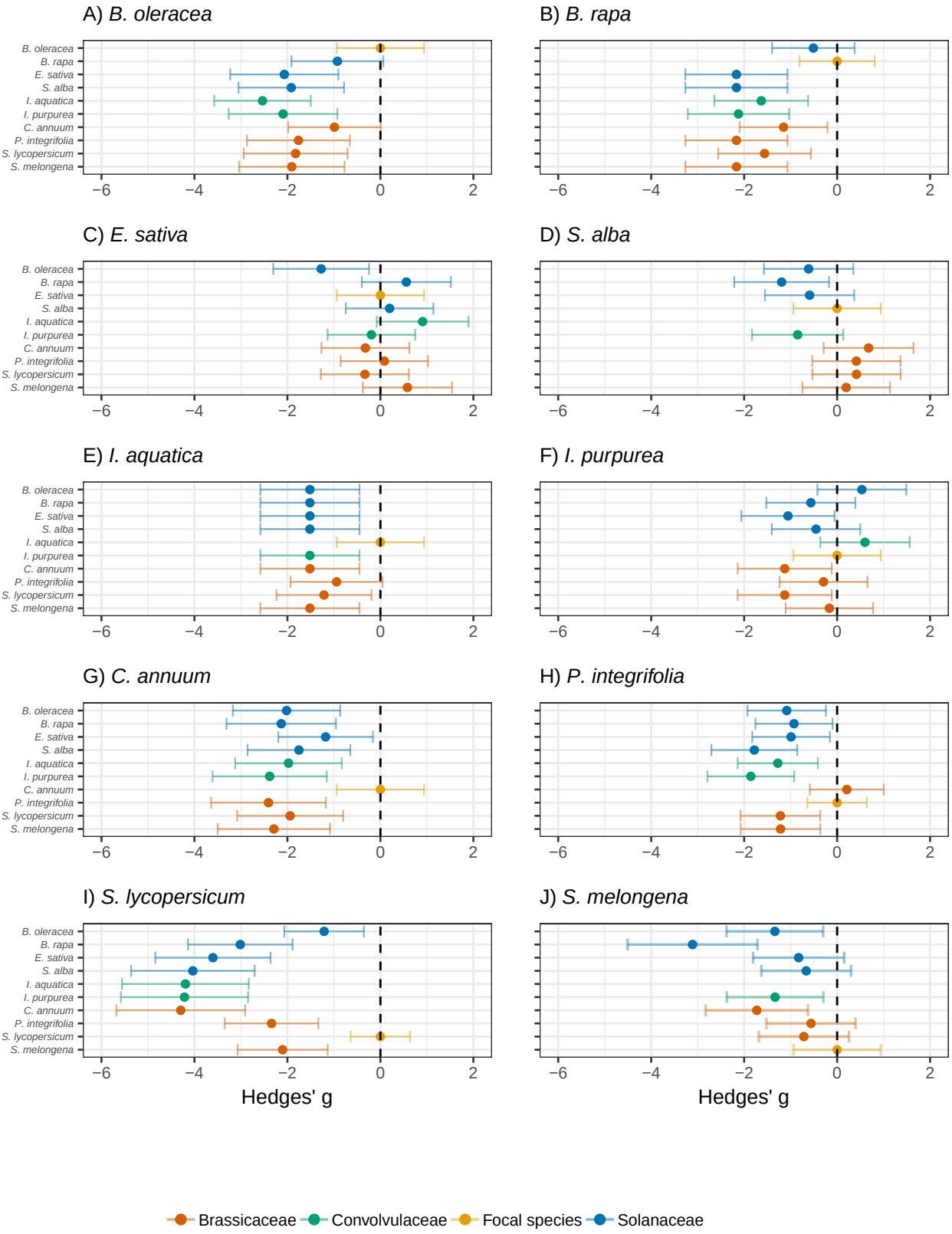
A) B. oleracea
B) B. rapa
C) E. sativa
D) S. alba
E) I. aquatica
F) I. purpurea
G) C. annuum
H) P. integrifolia
I) S. lycopersicum
J) S. melongena
B. oleracea
B. rapa
E. sativa
S. alba
I. aquatica
I. purpurea
C. annuum
P. integrifolia
S. lycopersicum
S. melongena
−6
−4
−2
0
2
Hedges' g
Brassicaceae
Convolvulaceae
Focal species
Solanaceae

Figure 4

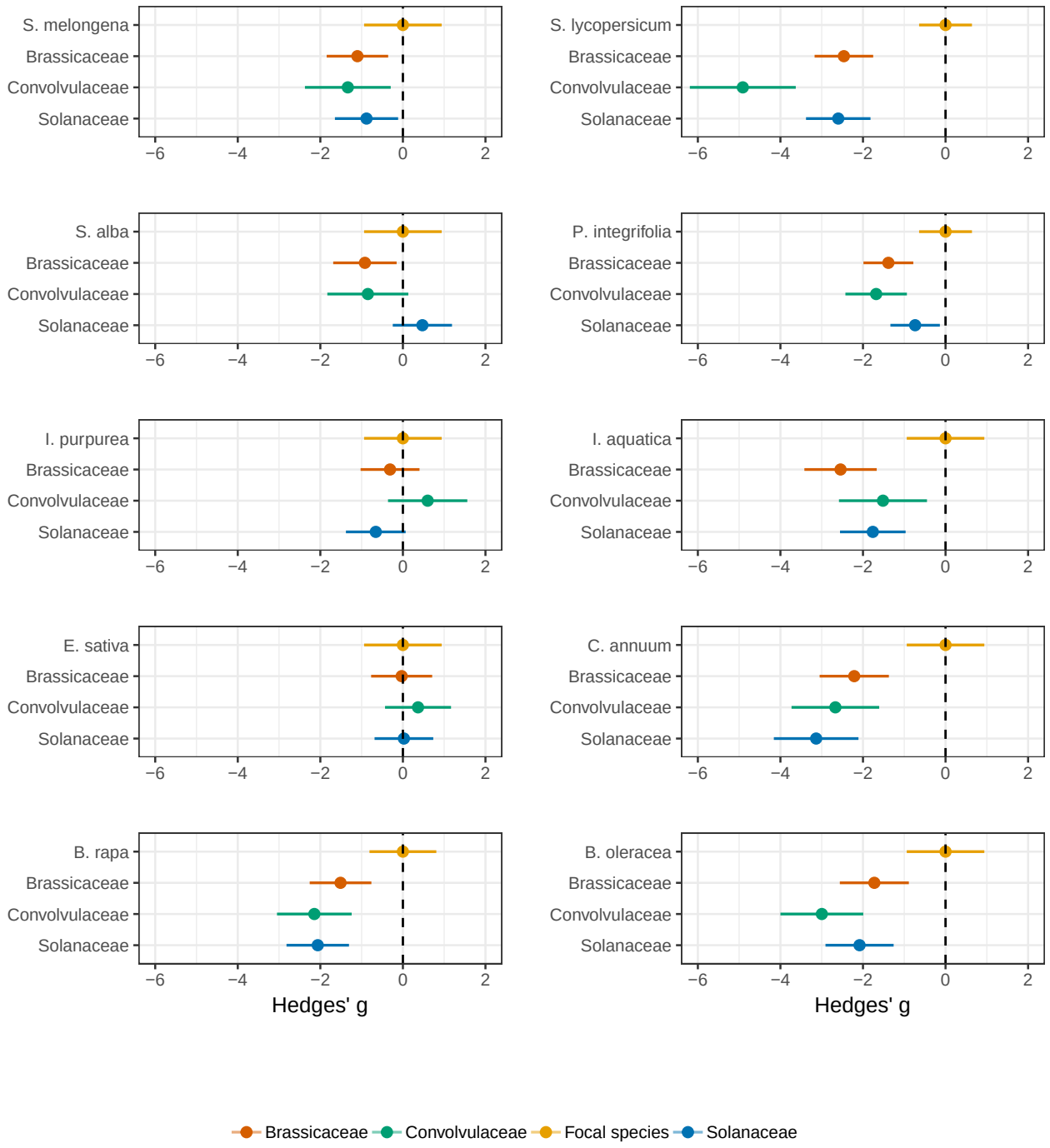
S. melongena
S. lycopersicum
S. alba
P. integrifolia
I. purpurea
I. aquatica
E. sativa
C. annuum
B. rapa
B. oleracea
Brassicaceae
Convolvulaceae
Solanaceae
−6
−4
−2
0
2
Hedges' g
Brassicaceae
Convolvulaceae
Focal species
Solanaceae

Figure 5

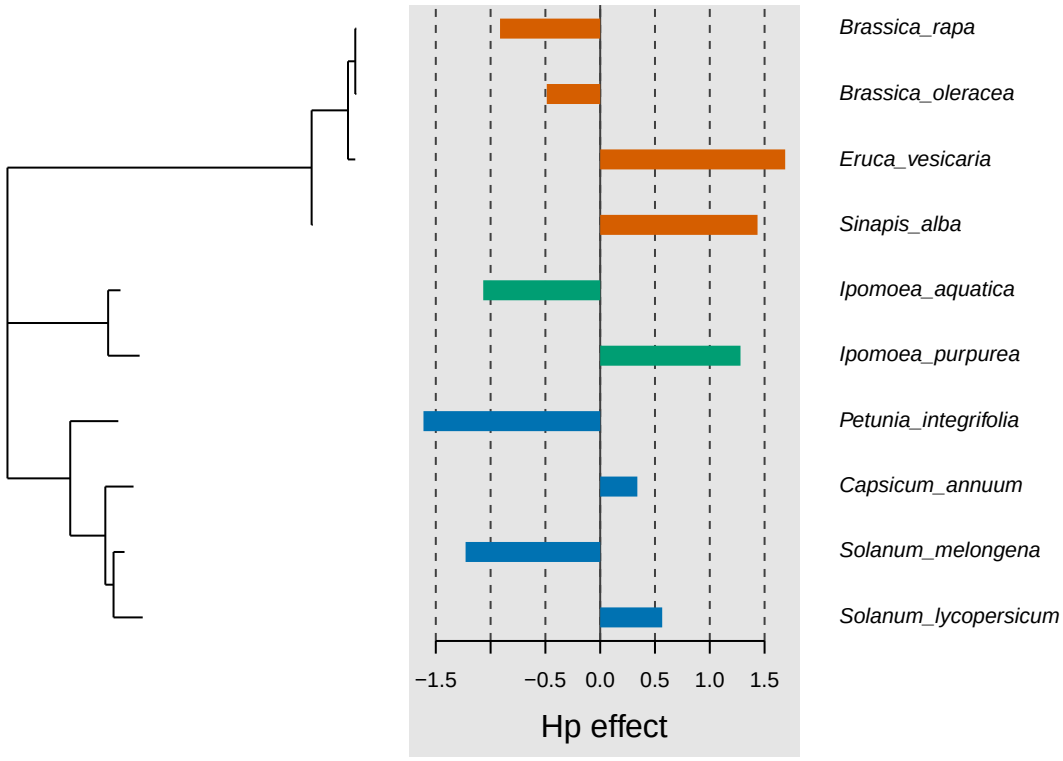
Brassica_rapa
Brassica_oleracea
Eruca_vesicaria
Sinapis_alba
Ipomoea_aquatica
Ipomoea_purpurea
Petunia_integrifolia
Capsicum_annuum
Solanum_melongena
Solanum_lycopersicum
−1.5
−0.5
0.0
0.5
1.0
1.5
Hp effect

Figure 6

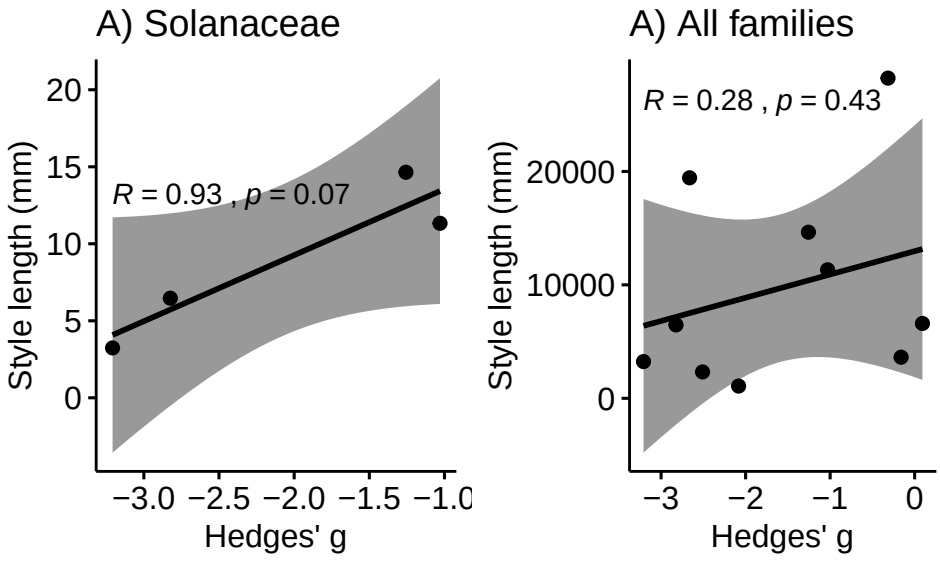
A) Solanaceae
A) All families
R = 0.93 , p = 0.07
R = 0.28 , p = 0.43
Style length (mm)
Hedges' g
20
15
10
5
0
20000
10000
−3.0
−2.5
−2.0
−1.5
−1.0
−3
−2
−1
0

Figure 7

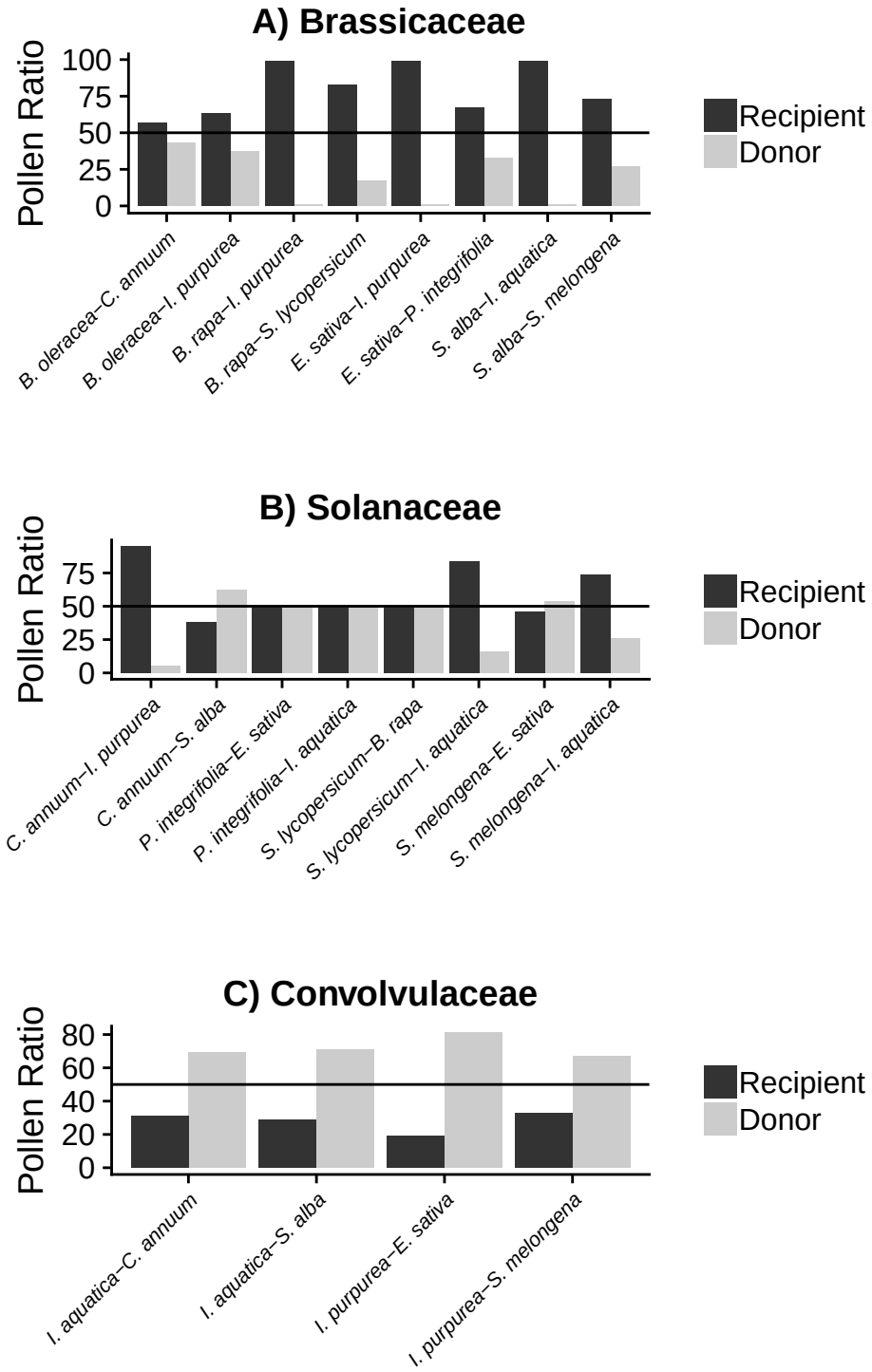
A) Brassicaceae
Pollen Ratio
100
75
50
25
0
B. oleracea–C. annuum
B. oleracea–I. purpurea
B. rapa–I. purpurea
B. rapa–S. lycopersicum
E. sativa–I. purpurea
E. sativa–P. integrifolia
S. alba–I. aquatica
S. alba–S. melongena
Recipient
Donor
B) Solanaceae
Pollen Ratio
75
50
25
0
C. annuum–I. purpurea
C. annuum–S. alba
P. integrifolia–E. sativa
P. integrifolia–I. aquatica
S. lycopersicum–B. rapa
S. lycopersicum–I. aquatica
S. melongena–E. sativa
S. melongena–I. aquatica
Recipient
Donor
C) Convolvulaceae
Pollen Ratio
80
60
40
20
0
I. aquatica–C. annuum
I. aquatica–S. alba
I. purpurea–E. sativa
I. purpurea–S. melongena
Recipient
Donor

Figure 8

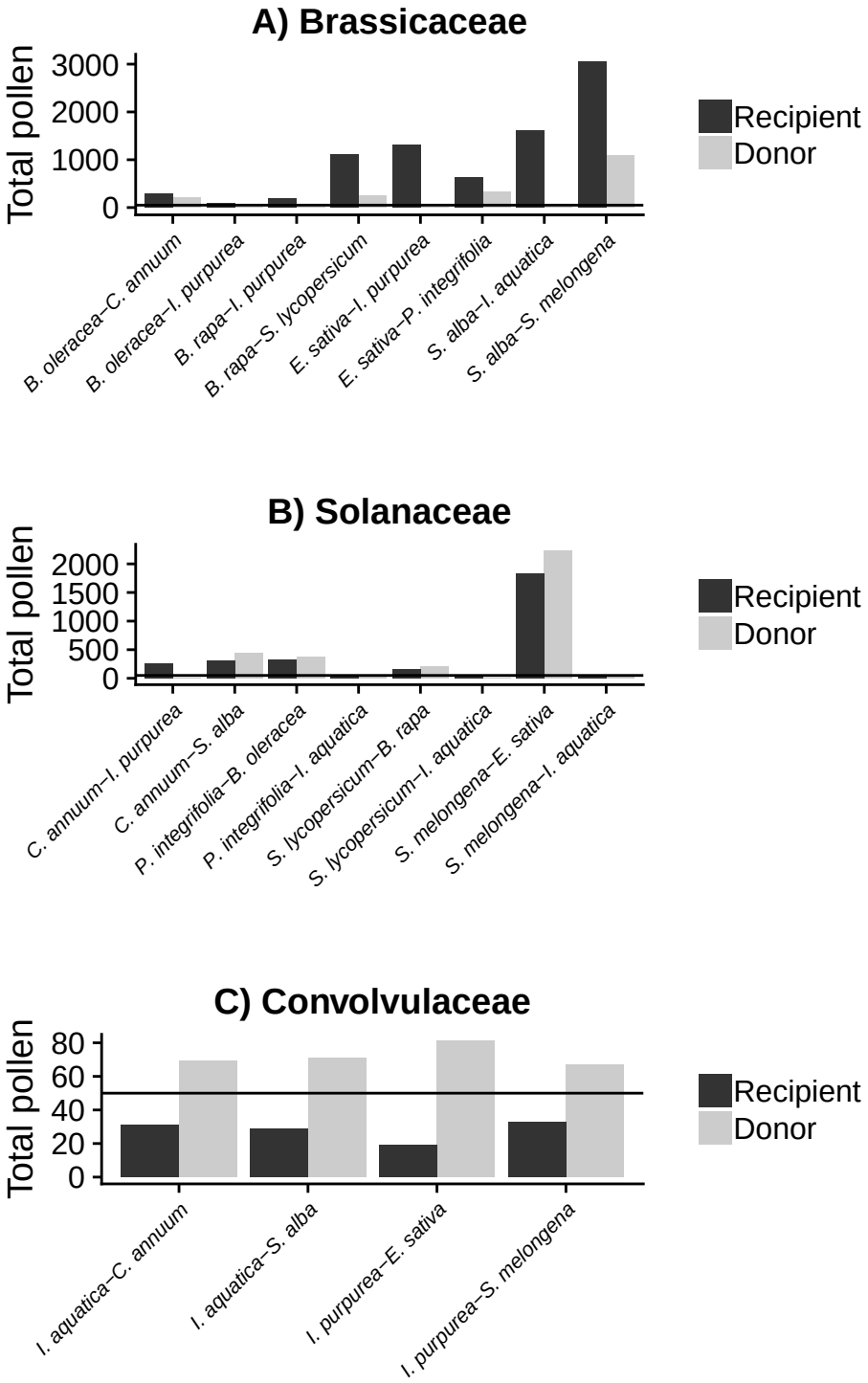
A) Brassicaceae
Total pollen
3000
2000
1000
0
B. oleracea–C. annuum
B. oleracea–I. purpurea
B. rapa–I. purpurea
B. rapa–S. lycopersicum
E. sativa–I. purpurea
E. sativa–P. integrifolia
S. alba–I. aquatica
S. alba–S. melongena
Recipient
Donor
B) Solanaceae
Total pollen
2000
1500
1000
500
0
C. annuum–I. purpurea
C. annuum–S. alba
P. integrifolia–B. oleracea
P. integrifolia–I. aquatica
S. lycopersicum–B. rapa
S. lycopersicum–I. aquatica
S. melongena–E. sativa
S. melongena–I. aquatica
Recipient
Donor
C) Convolvulaceae
Total pollen
80
60
40
20
0
I. aquatica–C. annuum
I. aquatica–S. alba
I. purpurea–E. sativa
I. purpurea–S. melongena
Recipient
Donor

Figure 9

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