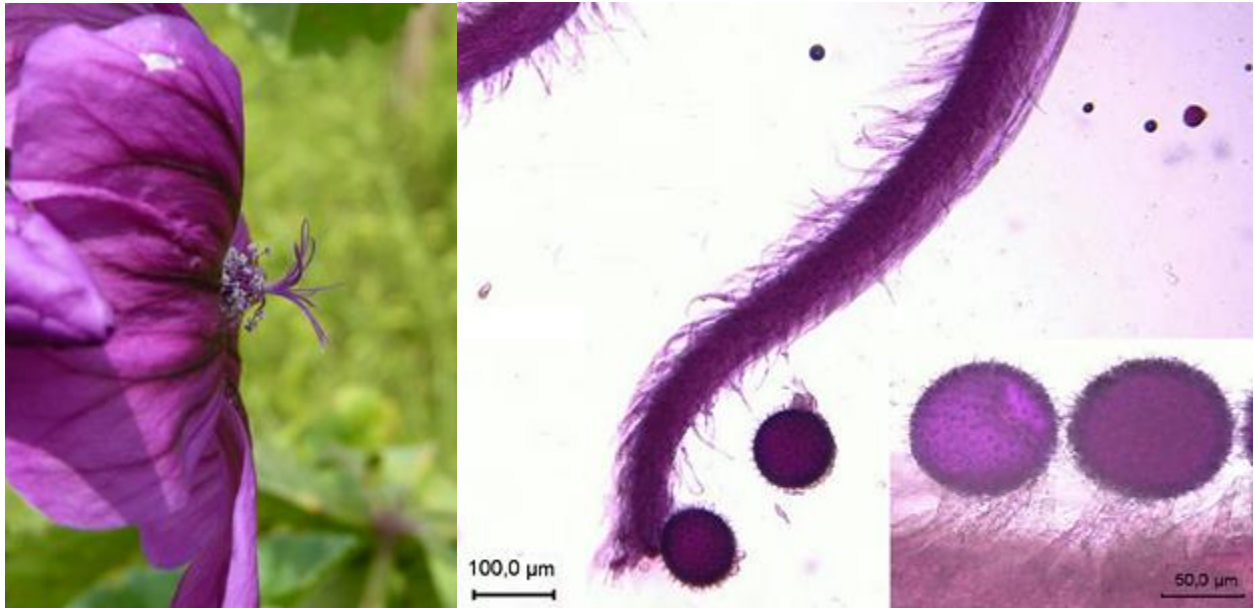


## Appendices

Appendix I. Flowers and stigmas with pollen grains (mounted in glycerin-jelly slides and stained with basic fuchsin) of (A) *Malva sylvestris*, (B) *Borago officinalis* and (C) *Onobrychis viciifolia*.



(A) Flower with developed stigma (arrow, left) and a section of a stigmatic filament of *M. sylvestris* with conspecific pollen grains and close-up of pollen grains adhered to the stigma (right).



(B) Flower with developed stigma (arrow, left) and stigma of *B. officinalis* with conspecific pollen grains (arrows, right).



(C) Flower with developed stigma (arrow, left) and stigma of *O. viciifolia* with conspecific pollen grains (right).

Appendix II. Exemplary photographs of the analysed flower-visitor groups of (A) *M. sylvestris*, (B) *B. officinalis* and (C) *O. viciifolia*, exceeding mean number of pollen grains on unvisited stigmas.



(A) Flower-visitor groups of *M. sylvestris* (from left to right and top to bottom): *Apis mellifera*, *Bombus terrestris* complex, *Bombus lapidarius* complex, Halictidae.



(B) Flower-visitor groups of *B. officinalis* (from left to right and top to bottom): *Apis mellifera*, *Bombus terrestris* complex, *Bombus lapidarius* complex, *Bombus sylvarum*, *Megachile*, Halictidae.



(C) Flower-visitor groups of *O. viciifolia* (from left to right and top to bottom): *Apis mellifera*, *Bombus lapidarius* complex, *Bombus sylvarum*, *Megachile*, Halictidae.

Appendix III. All flower-visitor groups observed on (A) *Malva sylvestris*, (B) *Borago officinalis* and (C) *Onobrychis viciifolia*, the numbers of visits per group and percentages of the total numbers of visits recorded per plant species.

(A) Observed flower-visitor groups of *M. sylvestris*

Flower-visitor group	Number of visits	Percentage of total visits [%]
Bees (Anthophila)	2998	97.56
<i>Apis mellifera</i>	2715	88.35
<i>Bombus lapidarius</i> complex	182	5.92
<i>Bombus terrestris</i> complex	56	1.82
Halictidae (< 10 mm)	34	1.11
Unidentified small bee	9	0.20
<i>Halictus scaberosae</i>	2	0.07
Other hymenoptera	3	0.10
<i>Ichneumonidae</i>	3	0.10
Hoverflies (Syrphidae)	24	0.78
<i>Episyrphus balteatus</i>	12	0.39
Unidentified hoverfly	9	0.29
<i>Sphaerophoria scripta</i>	1	0.03
<i>Melanostoma mellinum</i>	2	0.07
Other diptera	17	0.55
Brachycera	17	0.55
Beetles (Coleoptera)	28	0.91
<i>Rhagonycha fulva</i>	23	0.75
<i>Brassicogethes aeneus</i>	2	0.07
<i>Harmonia axyridis</i>	1	0.03
<i>Oxythyrea funesta</i>	1	0.03
Unidentified beetle	1	0.03
True Bugs (Heteroptera)	3	0.10
<i>Heteroptera</i>	3	0.10
Net-winged insects (Neuroptera)	1	0.03
<i>Chrysopidae</i>	1	0.03
Butterflies (Lepidoptera)	1	0.03
<i>Aglais urticae</i>	1	0.03

(B) Observed flower-visitor groups of *B. officinalis*

Flower-visitor group	Number of visits	Percentage of total visits [%]
Bees (Anthophila)	3097	98.99
<i>Apis mellifera</i>	2821	87.34
<i>Bombus terrestris</i> complex	234	7.25
<i>Megachile</i>	31	0.96
Unidentified small bee	28	0.87
<i>Bombus lapidarius</i> complex	25	0.77
<i>Bombus sylvarum</i>	25	0.77
Halictidae (< 10 mm)	21	0.65
<i>Andrena</i>	10	0.31
<i>Hylaeus</i>	2	0.06
Other hymenoptera	3	0.09
<i>Vespula</i>	3	0.09
Hoverflies (Syrphidae)	23	0.70
<i>Episyrphus balteatus</i>	14	0.43
<i>Sphaerophoria scripta</i>	4	0.12
Unidentified hoverfly	3	0.09
<i>Melanostoma mellinum</i>	2	0.06
Beetles (Coleoptera)	4	0.12
<i>Brassicogethes aeneus</i>	4	0.12
True bugs (Heteroptera)	1	0.03
<i>Eurydema oleracea</i>	1	0.03
Butterflies (Lepidoptera)	2	0.06
<i>Pieris</i>	2	0.06

(C) Observed flower-visitor groups of *O. viciifolia*

Flower-visitor group	Number of visits	Percentage of total visits [%]
Bees (Anthophila)	2154	97.87
<i>Bombus lapidarius</i> complex	1325	60.20
<i>Apis mellifera</i>	251	11.40
<i>Bombus sylvarum</i>	196	8.91
<i>Bombus terrestris</i> complex	184	8.36
<i>Megachile</i>	119	5.41
Halictidae (< 10 mm)	49	2.23
<i>Andrena</i>	29	1.32
Unidentified small bee	1	0.05
Hoverflies (Syrphidae)	25	1.14
<i>Episyrphus balteatus</i>	15	0.68
<i>Melanostoma mellinum</i>	5	0.23
Unidentified hoverfly	4	0.18
<i>Sphaerophoria scripta</i>	1	0.05
Other diptera	6	0.27
Brachycera	6	0.27
Beetles (Coleoptera)	15	0.78
<i>Brassicogethes aeneus</i>	7	0.32
<i>Rhagonycha fulva</i>	4	0.18
Unidentified beetle	4	0.18
Butterflies (Lepidoptera)	1	0.05
Hesperiidae	1	0.05