

**Table S1. Pollinator records available for *Ophrys helenae*, the outcrossing *Serapias* species and the *Oncocyclus* irises.** The table shows that (i) pollinators are primarily male insects, (ii) different plant species attract the same insect species as pollinator (i.e., evidence for pollinator sharing), and (iii) that species in the tribe Eucerini are frequently observed as pollinators in each plant group.

<b><i>Ophrys</i> species</b>	<b>Pollinator species</b>	<b>Family, Tribe</b>	<b>Sex</b>	<b>Pollinator behaviour</b>	<b>References</b>
<i>Ophrys helenae</i>	<i>Eucera vulpes</i> BRULLÉ	Apidae, Eucerini	M	Sleeping on the flower labellum, under the column (morning/late afternoon)	(1); present study
	<i>Synhalonia rufa</i> (LEPELETIER)	Apidae, Eucerini	M	Sleeping on the flower labellum, under the column (morning/late afternoon)	(1); present study
	<i>Synhalonia lucasi</i> (GRIBODO)	Apidae, Eucerini	M	Sleeping on the flower labellum, under the column (morning/late afternoon)	(1)
<b><i>Serapias</i> species</b>	<b>Pollinator species</b>	<b>Family, Tribe</b>	<b>Sex</b>	<b>Pollinator behaviour</b>	<b>References</b>
<i>S. lingua</i>	<i>Ceratina cucurbitina</i> (ROSSI)	Apidae, Ceratini	M	Pseudocopulation with the floral callus during the day	(2-3); present study
<i>S. olbia</i>	<i>Chysura</i> sp.	Chrysididae, Chrysidini	M/F	Sleeping in the floral tube (morning/late afternoon)	present study
<i>S. vomeracea</i>	<i>Andrena</i> sp.	Andrenidae, Andrenini	M	Sleeping in the floral tube (morning/late afternoon)	(4)
	<i>Anthidium manicatum</i> (LINNAEUS)	Megachilidae, Anthidiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Ceratina</i> sp.	Apidae, Ceratini	M/F	Sleeping in the floral tube (morning/late afternoon)	(5-7)

	<i>Chrysura refulgens</i> (SPINOLA)	Chrysididae, Chrysidini	M	Sleeping in the floral tube (morning/late afternoon)	(7)
	<i>Eucera clypeata</i> ERICHSON	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Eucera</i> sp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(4-6); present study
	<i>Eucera</i> cfr. <i>longicornis</i> (LINNAEUS)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(6)
	<i>Halictus scabiosae</i>	Halictidae, Halictini	F	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile centuncularis</i> LINNAEUS	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	(5-6)
	<i>Megachile willughbiella</i> KIRBY	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile melanopyga</i> COSTA, 1863	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	(8)
	<i>Osmia</i> sp.	Megachilidae, Osmiini	M/F	Sleeping in the floral tube (morning/late afternoon)	(4-6)
	<i>Rhodanthidium</i> sp.	Megachilidae, Anthidiini	M/F	Sleeping in the floral tube (morning/late afternoon)	(5)
	<i>Osmia aurulenta</i> (PANZER 1799)	Megachilidae, Osmiini	M/F	Sleeping in the floral tube (morning/late afternoon)	(9-10)
	<i>Osmia leaiana</i> (KIRBY, 1802)	Megachilidae, Osmiini	M/F	Sleeping in the floral tube (morning/late afternoon)	(10)
<i>S. levantina</i>	<i>Osmia</i> sp.	Megachilidae, Osmiini	M/F	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Eucera decipiens</i> ALFKEN	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study

	<i>Eucera friesei</i> RISCH	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile sicula</i> (ROSSI)	Megachilidae, Megachilini	M	Sleeping on the flower labellum, under the column (morning/late afternoon)	present study
<i>S. neglecta</i>	<i>Eucera collaris</i> DOURS	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Rhodanthidium septemdentatum</i> (LATREILLE, 1809)	Megachilidae, Anthidiini	M	Sleeping in the floral tube (morning/late afternoon)	(9)
<i>S. nurrica</i>	<i>Megachile</i> sp.	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon) + self-pollination	present study
<i>S. cordigera</i>	<i>Dioxys cincta</i> JURINE	Megachilidae, Dioxyni	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Eucera clypeata</i> ERICHSON	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Eucera collaris</i> DOURS	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Hoplitis acuticornis</i> DUFOR & PERRIS	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Hoplitis adunca</i> (PANZER)	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Hoplitis benoisti</i> (ALFKEN)	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Hoplitis annulata annulata</i> (LATREILLE)	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Osmia argyropyga</i> PÉREZ	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study

	<i>Osmia bicolor</i> (SCHRANK)	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Osmia caerulescens</i> LINNAEUS	Megachilidae, Osmiini	M/F	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Osmia signata</i> ERICHSON	Megachilidae, Osmiini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile albisecta</i> KLUG	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile centuncularis</i> LINNAEUS	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile pilidens</i> ALFKEN	Megachilidae, Megachilini	M/F	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Megachile willughbiella</i> KIRBY	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	present study
<i>S. perez-chiscanoi</i>	<i>Eucera</i> sp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon) + self-pollination	(11-12)
<b><i>Oncocyclus</i> species</b>	<b>Pollinator species</b>	<b>Family, Tribe</b>	<b>Sex</b>	<b>Pollinator behaviour</b>	<b>References</b>
<i>I. atrofusca</i>	<i>Andrena</i> cfr. <i>curiosa</i> (MORAWITZ)	Andrenidae, Andrenini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Synhalonia plumigera</i> (KOHL)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera</i> spp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Synhalonia</i> sp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)

<i>I. atropurpurea</i>	<i>Megachile sicula</i> (ROSSI)	Megachilidae, Megachilini	M	Sleeping in the floral tube (morning/late afternoon)	(13); present study
	<i>Synhalonia spectabilis</i> (MORAWITZ)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Eucera</i> spp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
<i>I. bismarckiana</i>	<i>Andrena</i> sp.	Andrenidae, Andrenini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Synhalonia rufa</i> (LEPELETIER)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Synhalonia plumigera</i> (KOHL)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera curvitaris</i> MOCSARY	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera furfurea</i> VACHAL	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera</i> sp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
<i>I. cedretii</i>	<i>Eucera</i> sp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(6)
	<i>Xylocopa</i> sp.	Apidae, Xylocopini	M/F	Visiting flowers during the day	(14)
<i>I. haynei</i>	<i>Synhalonia plumigera</i> (KOHL)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(14)
	<i>Eucera curvitaris</i> MOCSARY	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera furfurea</i> VACHAL	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)

	<i>Eucera</i> spp.	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
<i>I. hermona</i>	<i>Eucera edentata</i> RISCH	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	present study
	<i>Andrena ocreata</i> (CHRIST)	Andrenidae, Andrenini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Synhalonia plumigera</i> (KOHL)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera antiochus</i> BAKER	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera furfurea</i> VACHAL	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
	<i>Eucera gaullei</i> VACHAL	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
<i>I. lortetii</i>	<i>Synhalonia plumigera</i> (KOHL)	Apidae, Eucerini	M	Sleeping in the floral tube (morning/late afternoon)	(13)
<i>Iris paradoxa</i>	<i>Xylocopa valga</i> GERSTAECKER	Apidae, Xylocopini	M	Pseudocopulation with the reduced floral fall during the day	present study

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