Flowers of Italy's Gargano **Peninsula**

Naturetrek Tour Report

22 - 29 April 2013







Tuberaria guttata Spotted Rock-rose



Southern Festoon butterfly



Report & images compiled by Andrew Cleave MBE



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Summary

We enjoyed pleasant sunny weather almost every day, but with one or two wet spells towards the end of the week. There was warm sunshine to encourage butterflies out on to the wing and enable the photographers to get plenty of good shots. The orchids, and especially the Ophrys genus, were the main attraction for most of the group, with over 40 species and hybrids found, but we also had some good opportunities to study some of the other interesting flora of the region, with some breathtaking displays of Poet's Narcissi, Anemones, Cyclamens Giant Fennel and Crown Daisies, plus many more colourful Mediterranean species including some endemics, and a number of British rarities. Butterflies on the wing during week included some obliging Swallowtails, Scarce Swallowtails, Southern Festoon, various blues and a variety of 'whites' including the attractive Dappled White. Italian Wall Lizards were seen every day, the males being especially conspicuous with their green head markings, and there were glimpses of a few other reptiles, including Terrapins, Three-toed Skinks and melanic forms of the Grass Snake. A bird-watching interlude on the coast gave us some good views of a number of wetland birds, and we saw and heard many more typical Mediterranean birds during the week. Our daily picnics of local produce were much appreciated.

Day 1

Monday 22nd April

Weather: Sunny on arrival. 24°C

Andrew and Lee were waiting at Bari Airport for the group as the flight from Gatwick arrived promptly. As soon as everyone had been introduced we headed for the two mini-buses which were parked about 250m away, loaded up and set off on the journey to Monte Sant'Angelo.

The first length of the journey took us along the auto-route where we passed the extensive olive plantations and market gardens of the lowland areas. After leaving the auto-route we headed for the coast along minor roads lined with eye-catching displays of Crown Daisies, Mallows, Poppies and Giant Fennel. Lesser Kestrels and Marsh Harriers were noted as we drove through open farmland. We stopped off at an area of salt-pans and muddy creeks near a deserted beach where we found some typical coastal plants such as Sea Medick, Sea Rocket, Sea Stock, Squirting Cucumber and Bellardia. However, our attention was soon distracted by all the birds; Greater Flamingos, Spoonbills, Little Egrets, Pygmy Cormorants, Avocets and Black-winged Stilts were found in the shallow lagoons and Fan-tailed Warblers were watched displaying nearby.

After this stop we drove to another area of coastal wetland near Zaponetta where there we found even more Flamingos, plus Slender-billed Gull, Marsh Harrier, Kentish Plover and Stone Curlew. After this breath of sea air we headed for the hotel at the top of Monte Sant'Angelo and an hour later checked in to our rooms. Some of the group set off immediately to look around the historic town whilst others went to explore the open area behind the hotel, and when we met for our first briefing before our evening meal they had some interesting photographs of the first of the orchids to show us.

Day 2

Weather: A sunny day, but with a gentle breeze. 24°C

Tuesday 23rd April

We all met up again at breakfast and then Andrew and Lee went shopping in the town for lunch ingredients. We were ready for our first day out at about 09 15. Our first real look at the Gargano flora was at the side of the road, only a few minutes drive from the hotel, along the narrow, pot-holed road leading to the nearby Pulsano Monastery. Even before we got out of the mini-buses a few small orchids could be seen growing beside the road, including the diminutive form of the Yellow Bee Orchid, *Ophrys sicula*, and the endemic derivative of the Early Spider Orchid *Ophrys garganica*. Working our way carefully over the short turf, many more orchid species were found, growing amongst the bright yellow flowers of Alyssum *Saxatile* and Horseshoe Vetch *Hippocrepis comosa*. The most common orchid on show was the Pink Butterfly Orchid *Orchis papilionaceae*, and all around were many spikes of the Green-veined Orchid *Orchis morio*, showing some variation in form and colour. We were also able to find one or two of the hybrids between these two species.

Further up the slope the prickly cushions of the Spiny Spurge Euphorbia spinosa caught our attention, partly because of their colour, but also because they turned out to be delicately scented, filling the air with a honey-like perfume. More of the variants of the Early Spider Orchid Ophrys sphegodes were found on the higher slopes and there were plenty of opportunities for the photographers to choose the best specimens and concentrate on getting good shots. We added specimens of Bertoloni's Bee Orchid Ophrys bertolonii, and Ophrys promontorii to the list before dragging ourselves away. Moving further along the road, we parked beside a little copse of Hornbeams and checked the slopes on either side of the road leading up to a radio mast. Here we added some fine Milky Orchids Orchis lactea to the list as well as more Ophrys species and many more Man Orchids Orchis anthropophorum. Some tight buds of Lady Orchids were spotted, but we could not find any of last year's Giant Orchids here.

We then drove to the monastery at the end of the road where we parked beneath some trees for our first picnic of the local cheeses, proscuitto,s, the delicious tomatoes, fennel and peppers, herbs freshly gathered from the hillsides and some local wines from the Puglia region. The walls of the monastery supported some interesting species, including Henbane, *Hyoscyamus niger* and we looked for the endemic Pale Goldendrops *Onosma lucana* in its usual site on the edge of the gorge, where a few flower spikes were spotted; we found more in a less precarious position later on. The three species of Asphodel all grow in the same spot here, and we also found a lovely plant of Ground Pine *Ajuga chamaepitys* close to the Monastery. A gentle walk down the wide track behind the monastery led us to a fine colony of Bumblebee Orchids *Ophrys bombyliflora* and some newly-opened Late Spider Orchids *Ophrys fuciflora* and the endemic *Ophrys apulica*. A Blue Rock-thrush could be heard singing, but was too far off for a good view. After a really exciting start to the trip, with lots of new plants for everyone to photograph, we returned to the hotel and discussed our finds and the plans for the next day before a very enjoyable evening meal.

Day 3

Wednesday 24th April

Weather: Sunny all day. 24°C

After Andrew and Lee had collected the provisions for lunch we loaded up and took the road out of town towards San Giovanni Rotondo. Our first stop of the day was in the valley below Monte Sant'Angelo where we looked in the cultivated fields alongside the road. This area was a surprising habitat for the Wild Tulip *Tulipa sylvestris* and a few of the bright yellow blooms were spotted growing amongst the cereal crops and on a bank above the parking place. Some spikes of Wild Gladiolus *Gladiolus italicus* were also noted and on the stony field margins Cotswold Pennycress *Thlaspi perfoliata* was flowering, and there were the remains of Winter Aconite *Eranthis hyemalis* as well as a few interesting 'cornfield weeds' which are now very rare in Britain.

The next roadside stop, a few miles further on, enabled us to find more of the open habitat *Ophrys* species, including several specimens of the very confusing Early Spider Orchid *Ophrys sphegodes* group. Lovely displays of Irises *Iris lutescens* caught our eye as we neared the parking area, and a short walk towards a little copse revealed some of the endemic Violas *Viola heterophylla ssp graeca*. The flatter area adjacent to the parking area was covered in orchids and we added a few new species to the list, including Lizard Orchids still in tight bud and some tiny Burnt Orchids *Neotinea ustulata*. Driving on a short distance towards the forest enabled us to find a stand of the beautiful wild Peony *Paeonia mascula* in perfect condition on a lightly wooded bank; a Nightingale serenaded us here and Swallowtail Butterflies challenged the photographers to get a good shot. The winding, single-track road into the forest gradually turned into a stony track with steep banks lined with ferns and mosses, and we spotted large stands of narcissi and anemones flowering in several places. We stopped for our picnic in a peaceful clearing in the woods where picnic tables and litter bins had been provided, and the only sounds were distant cow bells and bird song. During the picnic there were some sightings of Firecrests in the ivy above us.

After our picnic we set off to walk through the forest towards the Piscina Pantolfe. Nuthatches were very vocal in the tree-tops, and there were distant calls of Cuckoo and both Green and Middle-spotted Woodpecker.

We wandered through the forest and came to a stony hillside where *Iris lutescens* and Iris pseudopumila were flowering in profusion and other sun-loving species were found amongst the rocks. Some good specimens of the Spectacled Ophrys *Ophrys biscutella* were found here, and the curious Round-leaved Birthwort *Aristolochia rotundifolia* was abundant in the shady spots. A patch of Roman Orchids *Dactylorhiza romana* was found on top of a bank but more eye-catching was the abundance of the Coral-root Bittercress *Cardamine bulbifera* and Bird-in-a-bush *Corydalis solida*. On returning to the vehicles we drove slowly out of the forest, stopping to photograph the Narcissi at one spot where they were particularly abundant, and then paused once more by the tulip fields for another look. We arrived back at the hotel in time for some of the group to explore the town and the open areas behind the hotel before our evening get-together.

Day 4

Thursday 25th April

Weather: Sunny all day, light breeze. 24°C

Our plan for today was to visit the well-known botanical site of Monte Sacro, and it promised to be another lovely sunny day. We made an early start to make best use of the time, and stopped at the supermarket for lunch provisions on the way. The route to Mattinata involves a long drive down a road made up of continuous hairpin bends, but with lovely views of the Gargano landscape and the coast. We were able to stop beside the road at one point with views of terraces all around, to admire the Mallow-leaved Bindweed *Convolvulus althaeoides*, and the striking bright yellow Woad *Isatis tinctoria* which were flowering profusely on a sunny verge. A short stroll along the terraced hillside beneath the olive trees produced a few more species for the list including our first Tongue Orchids *Serapias lingua*, and the lemonyellow flowers of *Urospermum dalechampii*.

Mattinata is by-passed with tunnels, underpasses and roundabouts, before another very steep road with yet more hairpin bends ends at the starting point for a walk up Monte Sacro. This is a very well-known stony hill with a rich and fascinating flora. A well-trodden and way-marked path leads to the summit of the hill where there are the ruins of a monastery, but there is so much to see on the way that most of us only made it as far as the start of the pine forest. A new species for the list was the Four-spotted Orchid *Orchis quadripunctata*, and in addition there were a few very photogenic Spectacled Orchids *Ophrys biscutella*. More Man Orchids and Naked Man Orchids *Orchis italica were* seen amongst the rocks and the yellow flowers of Rock-rose added a further splash of colour, with several specimens of the Spotted Rock-rose *Tuberaria guttata* being found as well. Just before reaching the woodland on the steep slope a large patch of Sparse-flowered Orchids *Orchis pauciflora* and Four-spotted Orchids *Orchis quadripunctata* were found.

We had our picnic back at the road appreciating the shade of the trees after a busy morning in the sunshine. A German botanist from Munich found us and was most complimentary about the Naturetrek reports which he had discovered online, and was excited to bump into the person who had written them! We retraced our route with a stop along the way to check out another promising-looking open area which turned out to have some splendid displays of Bertoloni's Bee Orchids and some fine specimens of *Ophrys bertoloniformis* as well as several fairly obliging butterflies for the photographers.

After driving back around Mattinata we stopped at the start of the track to Monte Saraceno, a limestone outcrop and historical site overlooking the sea. Our walk along the track produced two species of Cistus (C. salvifolius, and C. monspeliensis) growing in close proximity which made for easy identification, although the Pink Cistus (C. creticus) which we had seen flowering profusely on the roadsides, was not in flower here. More orchids, including Ophrys melena were found along the track, and there were some good butterfly sightings, including the Swallowtail, Scarce Swallowtail, Wall Brown and Baton Blue. The dozens of chambered tombs at the end of the headland, dating from about 1000BC, and carved out of the solid limestone, proved to be very interesting, and some of them supported colonies of Maidenhair Fern Adiantum capillus-veneris. We returned to the hotel after another very exciting day, and some of the party explored the town again before our evening get-together.

Day 5

Friday 26th April

Weather: Sunny all day. 24°C

We had a slightly later start today in order to allow some time for a further look around the town, visit the Castle book shop and check the slopes behind the hotel. We met at the front of the hotel and took the Pilgrim's Path down from the Castle to the valley below. This ancient track-way led us along the hillside with beautiful views of the surrounding landscape and some close encounters with yet more orchids. Butterflies were on the wing here and Nightingales, Sub-alpine Warblers and Whitethroats were singing from either side of the track. Although the town was very busy with Pilgrims and there was lots of road traffic we had the Pilgrim's Path to ourselves. A few Lady Orchids were spotted on the steep slopes above us and we enjoyed the sight of the tiny Spring Rock-cress *Arabis verna* and the endemic sub-species of Aubrieta. Towards the bottom of the path an exciting discovery was a clump of the elusive Dense-flowered Orchid *Neotinea intacta*, which we must have overlooked in the previous week. Once we had collected both mini-buses we set off to the forested slopes below Monte Calvo, the highest peak in the Gargano.

We stopped at a quiet picnic area where tracks led off into the forest. A Nightingale sang from a bramblepatch beside the mini-bus, and in the surrounding forest and clearings there were colourful displays of Anemone appenina, Narcissus poeticus and Euphorbia amygdaloides. A few Roman Orchids Dactylorrhiza romana were found here, and near the track some emerging spikes of Bird's-nest Orchid Neottia nidus-avis were spotted with two fine Morel Fungi Morchellus esculentus growing close by. After our picnic we explored more of this area, checking a sunny clearing with some fine Sparse-flowered Orchids and several other species, including a few Tongue Orchids. A single spike of the Elder-flowered Orchid Dactylorhiza sambucina was found in a shady part of the woods and one example of the Heart-flowered Serapia Serapias cordigera was also found. Our last stop of the day was near an isolated restaurant where we wandered around some gardens and un-inhabited houses looking for more orchids in the clearings. We found plenty more Roman Orchids here, and lots of leaves and tight buds of the Common Spotted Orchid Dactylorrhiza fuchsii. A fine specimen of Ophrys exaltata was still showing some flowers in the parking area and several more *Ophrys* species were seen on either side of the road. One of the trees spreading freely in this area was the Wild Service Tree Sorbus torminalis. After another long sunny day we retraced our route to the hotel and met before dinner to check over the finds of the day and discuss the plans for moving to our next hotel.

Day 6

Saturday 27th April

Weather: Sunny and warm at first but becoming cloudy with showers later. 25°C

We packed up and left the Palace Hotel this morning and drove into the Foresta Umbra, the "shady forest" which is composed largely of dense groves of beech and hornbeam. Our first stop on the journey was at a little track which led into a plantation of pines where there were many of the now familiar orchids in flower, including some very fine displays of Italian Man Orchids *Orchis italica* and still more of the various 'Bee' orchids, including the endemic *Ophrys promontorii* and some very confusing hybrids. *Ophrys virescens* was present here and there were some very fine specimens of *Ophrys sphegodes*, in perfect condition for photography. Cloudy conditions and a brief shower of rain slowed the butterflies down and there were some very good photo opportunities here.

We stopped deep in the forest at a roadside picnic spot which gave us the opportunity for a walk along an easy trail where there were many ferns producing fresh green fronds and the rare British lichen, Tree Lungwort Lobaria pulmonaria on the trunks of trees along the path. Various garlic-scented species were encountered here, including the British native, Ramsons Allium ursinum. The landscape here was deeply pitted with huge hollows which apparently are collapsed caves. At a little woodland lake several terrapins and a grass snake were spotted basking along a fallen tree, and large numbers of tadpoles were seen, although there were few birds to watch here. Several large fish, some looking like Golden Orfe and others like Chub, were seen in the shallows. After another delicious lunch under the shelter of the beech trees we moved off, pausing to watch some bedraggled-looking Fallow Deer in an enclosure. At a lay-by several kilometres down the hill we stopped to admire an attractive display of the delicately-scented Spring Cyclamen Cyclamen repandum growing on steep slopes, where there were a few more British native species as well, including Fiddle Dock Rumex pulcher and Stinking Iris Iris foetidissima.

Having left the forest, we arrived at the coastal plains, driving through Olive and Citrus groves before we stopped at the not-so-scenic "Fly-tip Stop"; it was drizzling here so Andrew and Lee checked the site quickly and it appeared that cattle had still been grazing here and there was a lot of trampling so we decided to move on to our hotel. It did not take long to reach the little fishing harbour of Peschici where we checked in to the Hotel Elisa, our base for the final two nights of the trip. Most of the group explored the town and harbour, enjoying the views of the sea and sampling the ice-creams or wandering through the maze of streets in the old town. Alpine Swifts were spotted by a few sharp-eyed observers and a Blue Rock-thrush could be heard singing on the hillside behind the hotel. Our evening meal was a splendid selection of freshly prepared local seafood.

Day 7

Sunday 28th April

Weather: A sunny day with a gentle breeze in the hills. 25°C

It was Sunday morning and there was no need to go shopping as Andrew and Lee had collected supplies the night before so we made an early start and drove west out of Peschici, along more steep and twisting roads, pausing first to look down over the cliffs at the Trabucco – the complicated arrangement of nets and poles traditionally used to catch fish from the rocks.

We had a quick look at the shrubby Apple of Sodom Solanum sodomaeum growing on the cliff edge, but the sellers of local produce parked in the lay-by were not very impressed by our lack of patronage of their stalls, so a few dried chillies and carob pods were purchased before we left. Further twists and turns in the road led us past olive groves, one of which supported a lovely stand of Lady Orchids Orchis purpurea where everyone was impressed by the size and beauty of the showiest orchids we had seen all week. We eventually reached a highway which enabled us to get to the west of the peninsula. Here we headed inland to explore the Bosco de Spinapulci - "Forest of the Spiny Flea", a high limestone plateau with forests and meadows and a few pot-holed roads. After leaving the Autoroute we paused on a lane where the elegant purple Mullein Verbascum phoenicium, was flowering, and close by we found Honeywort Cerinthe major and wild Asparagus, the plant which we had noted on sale on the roadsides on our journey. A few Pyramidal Orchids Anacamptis pyramidalis were fully open, and a few more of the Ophrys sphegodes group were found along the lane with a few good spikes of the Dark Ophrys Ophrys incubacea. Sub-alpine and Sardinian Warblers were very vocal in the scrub alongside the road and Cuckoo and Golden Oriole called from the hillside.

Further on we stopped in a disused quarry and explored the slopes around it; more of the Spring Cyclamen was in flower, and the two new orchid species noted were the very rare Small-patterned Ophrys Ophrys parvimaculata and the Provence Orchid Orchis provincialis. Further up the slope there were several Tongue Orchids showing considerable colour variation. Various prickly shrubs grew here, especially the aptly named Christ's Thorn Palliurus spina-christi. We then attempted to drive up onto the limestone plateau along a rough track to get to our usual picnic spot but the track was blocked by a large van. On investigating the van, two policemen appeared who were adamant that we could not drive along the road; apparently there were some road works, or some other blockage. We had to return to the quarry road which we followed further up the hill until we found a good spot for our picnic. The woods here had more cyclamens, more of the rare Small-patterned Ophrys and plenty of other interesting woodland species.

After lunch we drove further along the deserted road and stopped at a sunny glade where an Ascalaphid caught our attention. The purple orchids here turned out be *Orchis picta* – a sparse flowered version of *Orchis morio*. A couple of spikes of Bee Orchid *Ophrys apifera* were also found in the clearing, with a few small Lupins just coming into bud as well. It was eventually time to leave so we returned to Peschici where we arrived in time for more exploration of the harbour and the beach, some ice-creams, and some photo opportunities with El Capo at his beach-front cafe before we had to do the on-line check-in for tomorrow's flight home. Our final evening meal was another delicious selection of the local sea-food.

Day 8 Monday 29th April

Weather: Mostly grey and cloudy, with a strong breeze on the coast. 16°C

This morning we had to pack up and leave, as this was the end of our stay in Gargano, so we had an early breakfast and left Peschici by 7.00 am, retracing our steps from yesterday's outing before reaching the auto-route which led back to Bari. This gave us a final view of the limestone massif of Gargano before we reached the coastal plains and the agricultural zone.

We arrived at the airport in plenty of time for the check-in and after a slight delay were on our way back to Gatwick after a very exciting week amongst the wild flowers of the Gargano Peninsula.

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Peschici

Species Lists

Plants

Scientific name Common name Location

PTERIDOPHYTES FERNS & ALLIES

Selaginellaceae Lesser Clubmoss Family

Selaginella denticulata Mediterranean Clubmoss On rocks, Monte Sacro, Bosca da

Spina Pulci

Adiantaceae Maidenhair Fern Family

Adiantum capillus-veneris Maidenhair Fern In tombs, Monte Saraceno

Aspleniaceae Spleenwort family

Asplenium adiantum-nigrum Black Spleenwort On rocks and walls, shady sites,

widespread.

Asplenium trichomanes Maidenhair Spleenwort On rocks and walls, shady sites,

common.

Ceterach officinarum Rustyback On sunny rocks and walls,

frequent.

Phyllitis scolopendrium Hart's-tongue Fern Shaded sites, woodlands.

Dennstaeditiaceae Bracken Family

Pteridium aquilinum Bracken

Dryopteridaceae Buckler-fern Family

Dryopteris dilatataBroad Buckler-fernForesta UmbraPolystichum setiferumSoft-shield FernCyclamen site

PINOPSIDA (GYMNOSPERMS) CONIFERS

Cupressaceae Juniper Family

Cupressus sempervirensItalian CypressWidespread, gardens, roadsides.Juniperus oxycedrusPrickly JuniperOpen, stony hillsides, common.

Pinaceae Pine Family

Pinus halepensisAleppo PineMonte SaracenoPinus pinasterMaritime PineWidespread

Pinus pinea Stone or Umbrella Pine Planted along roadsides, lowland

areas.

Taxaceae Yew Family

Taxus baccata Yew Bosco Quarto, Foresta Umbra

MAGNOLIOPSIDA (ANGIOSPERMS) FLOWERING PLANTS

Magnoliidae (Dicotyledons)

Acanthaceae Bear's-breech Family

Acanthus mollis Bear's-breech Leaves only, Monte Saraceno area

Aceraceae Maple Family

Acer campestrisField MapleWidespread, woodlands.Acer platanoidesNorway MapleMonte Sant'Angelo

Achillea millefolium

Andryala integrifolia

Artemisia absinthium

Scientific name Common name Location Acer pseudoplatanus Sycamore Widespread, woodlands. Acer obtusatum Bosnian Maple Monte Sacro Acer opalus Italian Maple Monte Sant'Angelo Aizoaceae **Dew-plant Family** Carpobrotus acinaciiformis Peschici Sally-my-handsome **Sumach Family** Anacardiaceae Cotinus coggygria Smoke Tree nr Peschici Pistachia lentiscus Mastic Tree Widespread in open, stony sites, Pistacia terebinthus **Turpentine Tree** Pulsano Gorge, Bosca da Spina Pulci **Carrot Family Apiaceae** Conium maculatum Hemlock Roadsides, lay-bys. Daucus carota Wild Carrot Roadsides, lay-bys. Eryngium campestre Field Eryngo Leaves only, open ground Ferrula communis Giant Fennel Widespread along roadsides, mostly coastal Broad-leaved Sermountain Laserpitium latifolium Leaves only, Pilgrim's Path Orlaya grandiflora Orlava Widespread in open, stony areas Petroselinum crispum Parsley Monte Saraceno Sanicula europaea Sanicle Foresta Umbra Scandix pecten-veneris Shepherd's Needles Widespread, field margins, stony areas. Perfoliate Alexanders Smyrnium perfoliatum Monte Sacro, Pulsano Thapsia Thapsia garganica leaves only, open stony areas Tordylium apulum Tordylium Olive grove nr Mattinata Torilis arvensis Spreading Hedge Parsley Roadsides, lay-bys. **Periwinkle Family Apocynaceae** Nerium oleander Oleander Pulsano Monastery Vinca major Periwinkle Mullein stop Aquifoliaceae **Holly Family** Ilex aquifolium Holly Common in woodlands Aralaceae Ivy Family Hedera helix lvy Widespread Aristolochiaceae **Birthwort Family** Aristolochia rotunda A Birthwort Bosca da Spina Pulci, Bosco Quarto A Birthwort Aristolochia pallida Milkweed Family Asclepiadaceae Vincetoxicum hirundinaria Swallow-wort Leaves only, Asteraceae **Daisy Family**

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Yarrow

Andryala

Wormwood

Leaves only

widespread

Roadside stop

Leaves and tight buds only,

Scientific name	Common name	Location
Bellis perennis	Daisy	Widespread in grassy areas and fields
Bellis sylvestris	Southern Daisy	Widespread in woodlands and hillsides
Calendula arvensis	Field Marigold	Abundant on roadsides, field
Carduus chrysacanthus	Apennine Thistle	margins Leaves only
Cirsium eriophorum	Woolly Thistle	leaves only
Crepis rubra	Pink Hawksbeard	Widespread in sunny sites, roadsides
Crupina crupinastrum	Crupina	Leaves and buds only
Doronicum columnae	Heart-leaved Leopard's-bane	Woodlands and shady banks
Evax pygmaea	Evax	Common on open stony sites
Galactites tomentosa	Galactites	Leaves only
Glebionis (Chrysanthemum) coronarium	Crown Daisy	Abundant on roadsides, field margins, coastal
Glebionis (Chrysanthemum) segetum	Corn Marigold	Local in some cultivated fields
Helichrysum stoechas	Curry Plant	Pulsano Gorge
Hyoseris radiata	a 'dandelion'	Widespread in grassy areas and fields
Inula verbascifolia	a 'Ploughman's Spikenard' type	near Tulip fields
Jurinea mollis	a Thistle	Leaves and buds only
Matricaria recutita	Scented Mayweed	Mullein stop area
Pallenis spinosa	Pallenis	Mullein stop
Phagnalon rupestre	Phagnalon	Pulsano Gorge
Ptilostemon gnaphaloides	a Ptilostemon	Pulsano Gorge
Reichardia tingitana	-	Roadside stop
Rhagadolius stellatus	Star Hawkbit	Pulsano Gorge
Scorzonera lacinata	Cut-leaved Viper's-grass	Mullein stop
Scorzonera villosa	Hairy Viper's Grass	Bosco da Spina Pulci
Senecio gallicus	-	Monte Sacro area
Senecio vulgaris	Groundsel	Tulip fields
Silybum marianum	Milk Thistle	Widespread, roadsides, Pulsano Monastery
Sonchus asper	Prickly Sow Thistle	Tulip fields
Taraxacum agg.	a Dandelion	Roadsides and labys
Tragopogon crocifolius	-	?
Tragopogon porrifolius	Salsify	Mullein stop and other roadsides
Tragopogon sinuatus	-	?
Tripleurospermum inodoratum	Scentless Mayweed	Roadsides and labys
Tussilago farfara	Colt's-foot	Leaves only near Quarry stop
Urospermum dalechampii	Urospermum	Pulsano area, olive grove stop
Urospermum picroides	-	Orchid stop near Bosco Quarto
Betulaceae	Birch Family	
Betula pendula	Silver Birch	Monte Sant'Angelo - Pilgrim's Path
Corylus avellana	Hazel	Forest Umbra
Carpinus orientalis	Eastern Hornbeam	Monte Calvo
Ostrya carpinifolia	Hop Hornbeam	Bosco Quarto
Boraginaceae	Forget-me-not Family	
Alkanna lehmanii	Dyer's Alkanet	Roadside stop
Anchusa caerulea	-	Pulsano area
Anchusa cretica	-	Bosca da Spina Pulci, Bosco Quarto

Scientific name	Common name	Location
Anchusa azurea (italica)	Large Blue Alkanet	nr Fly-tip stop
Borago officinalis	Borage	Pulsano area
Lithospermum (Buglossoides) arvense	Corn Gromwell	Tulip fields
Lithospermum (Buglossoides) purpurocaerulea	Purple Gromwell	Pulsano area
Cerinthe major	Honeywort	Olkve groves nr Peschici, Mullein
• • • • • • • • • • • • • • • • • • •		stop
Cynoglossum creticum	Cretan Hound's-tongue	Orchid stop nr Bosco Quarto
Echium italicum	Pale Bugloss	Roadside stop
Echium platagineum	Purple Viper's Bugloss	Widespread on coastal sandy areas
Myosotis arvensis	Field Forget-me-not	Tulip fields and other grassy areas
Myosotis discolour	Changing Forget-me-not	Pusano area
Myosotis ramosissima	Early Forget-me-not	Pilgrim's Path
Myosotis sylvatica	Wood Forget-me-not	Bosco Quarto, Foresta Umbra
Onosma lucana*	Pale Goldendrops	leaves only, Pulsano monastery and gorge
Pulmonaria montana	Mountain Lungwort	Bosco Quarto, Foresta Umbra
Pulmonaria officinalis	Common Lungwort	Bosco Quarto
Brassicaceae	Cabbage Family	
Aethionema saxatile	Burnt Candytuft	Bosco Quarto iris slopes
Alliaria petiolata	Garlic Mustard	roadsides and lay-bys, Cyclamen stop
Alyssoides sinuata	Alyssoides	walls of Pulsano monastery
Alyssum montanum	Mountain Alyssum	widespread in open, sunny areas
Alyssum saxatile	Yellow Alyssum	widespread in open, sunny areas
Arabis caucasica	Garden Rockcress	abundant on slopes below Monte Sant'Angelo
Arabis hirsuta	Hairy Rockcress	?
Arabis turrita	Tower Mustard	roadsides
Arabis verna	Spring Rockcress	Pilgrim's Path and Monte Sacro
Aubrieta columnae subsp. italica	an Aubrieta	Monte Sant'Angelo and Pilgrim's Path
Biscutella didyma	Biscutella	widespread
Bunias erucago	Bunias/Warty Cabbage	nr Tulip fields
Cakile maritima	Sea Rocket	coastal sands nr Zaponetta
Capsella bursa-pastoris	Shepherd's Purse	Tulip fields
Cardamine bulbifera	Coralroot Bittercress	Bosco Quarto and Foresta Umbra
Cardamine plumieri	Ivy-leaved Bittercress	Bosco Quarto and Foresta Umbra
Cheiranthus cheiri	Wallflower	Pulsano Monastery
Descurainia sophia	Flixweed	roadsides and lay-bys
Diplotaxis sp.	A Wall-rocket	Pulsano Monastery
Eruca sativa	Wild Rocket	Pulsano area
Fourraea alpina	a small rock cress	Bosco Quarto iris slopes
Hirschfeldia incana	Hoary Mustard	common on roadsides and field margins
Isatis tinctoria	Woad	widespread on roadsides
Lepidium (Cardaria) draba	Hoary Cress	nr Peschici
Lepidium latifolium	Dittander	nr Peschici
Lobularia maritima	Sweet Alison	Pulsano area
Matthiola incana	Hoary Stock	Peschici cliffs and Zaponetta
Raphanes raphanistrum	Wild Radish	nr Mullein stop
Sinapis alba	Charlock	Fields and cultivated areas
Sinapis arvensis	White Mustard	Roadsides
Sisymbrium officinale	Hedge Mustard	Roadsides

roadsides, nr Mattinata and

Scientific name Common name Location

Thlaspi sp A Penny-cress Tulip fields

Cactaceae

Prickly Pear Opuntia ficus-indica around Mattinata

Cactus Family

Bellflower Family

Honeysuckle Family

Campanulaceae

Campanula garganica* a Bellflower (endemic) Peschici Legousia speculum-veneris Large Venus's Looking Glass

Caprifoliaceae

Lonicera etrusca Etruscan Honeysuckle nr Mullein stop Lonicera periclymenum Honeysuckle Foresta Umbra Sambucus ebulus **Dwarf Elder or Danewort** nr Peony stop Sambucus nigra Elder woodland margins

Caryophyllaceae

Arenaria serpyllifolia Thyme-leaved Sandwort tulip fields Cerastium fontanum Common Mouse-ear quarry stop Sticky Mouse-ear Monte Saraceno Cerastium glomeratum A Sandwort Monte Saraceno Minuartia serpyllifolia

Pink Family

Silene colorata a catchfly widespread - open sunny areas

Silene conoidea Monte Saraceno

Sand Catchfly coastal sands nr Zaponetta Silene conica

Small-flowered Catchfly Silene gallica Tulip fields Silene italica Italian Catchfly Monte Saraceno Silene latifolia White Campion roadside stop Silene vulgaris **Bladder Campion** Peschici Stellaria media Common Chickweed Bosco Quarto Stellaria nemorum Wood Stitchwort Bosco Quarto

Celastraceae

Euonymus europaeus Spindle Pulsano Gorge

Chenopodiaceae

Chenopodium album Fat Hen Pulsano monastery

Cistaceae

Cistus creticus

Rock-rose Family Pink Cistus

Spindle Family

Goosefoot Family

Peschici

Narrow-leaved Cistus Cistus monspeliensis Monte Saraceno

Monte Saraceno, Peschici Cistus salvifolius Sage-leaved Cistus

Helianthemum apenninum White Rockrose Monte Sacro

Helianthemum oelandicum subsp.canum Hoary Rockrose Pulsano area, Monte Sacro

Bindweed Family

Helianthemum nummularium Rockrose widespread Tuberaria guttata Spotted Rockrose Monte Sacro

Convolvulaceae

Calystegia sepium Hedge Bindweed nr Tulip fields

Convolvulus althaeoides Mallow-leaved Bindweed Roadsides and open, sunny areas

Convolvulus althaeoides subsp.tenuissimus a Mallow-leaved Bindweed

Cuscuta epithymum Common Dodder Monte Calvo area

Hippocrepis emerus subsp. emeroides

Cyclamen stop - on steep bank

Scientific name	Common name	Location
Cornaceae	Dogwood Family	
Cornus sanguinea	Dogwood	nr Peschici
•	C	
Crassulaceae	Stonecrop Family	
Sedum acre	Biting Stonecrop	Pulsano Gorge
Sedum rubens	Reddish Stonecrop	nr Monte Sacro
Sedum stellatum	Starry Stonecrop	nr Monte Sacro
Umbilicus rupestris	Wall Pennywort	Foresta Umbra, Bosco Quarto, Pulsano
Cucurbitaceae	Cucumber family	
Ecballium elaterium	Squirting Cucumber	nr Zaponetta, coastal sands
Bryonia dioica	White Bryony	Puylsano
Dipsacaceae	Teasel Family	
Dipsacus fullonum	Wild Teasel	Leaves only
Lomelosia crenata	-	nr Monte Sacro
Scabiosa sp.	A Scabious	roadside nr Monte Sacro
Ericaceae	Heather Family	
Erica arborea	Tree Heather	Approach to Foresta Umbra
Euphorbiaceae	Spurge Family	
Euphorbia amygdaloides	Wood Spurge	Foresta Umbra, Bosco Quarto
Euphorbia biumbellata	Whorled Spurge	Monte Sacro
Euphorbia characias subsp.characias	Mediterranean Spurge	Open, stony areas
Euphorbia helioscopia	Sun Spurge	Widespread in open, sunny areas
Euphorbia myrsinites	Broad-leaved Glaucous Spurge	Monte Sacro
Euphorbia nicaeensis	-	?
Euphorbia peplus	Petty Spurge	roadsides and sands near coast
Euphorbia segetalis	-	nr Monte Sacro
Euphorbia spinosa	a 'hedgehog' plant	widespread in open, sunny areas
Mercurialis annua	Annual Mercury	Pulsano Gorge
Mercurialis perennis	Dog's Mercury	Foresta Umbra
Fabaceae	Pea Family	
Anagyris foetida	Bean Trefoil	Mullein stop
Anthyllis barba-jovis	Jupiter's Beard	Cliffs at Peschici
Anthyllis tetraphylla	Bladder Vetch	nr Fly-tip stop
Anthyllis vulneraria agg	Kidney Vetch	scattered in open sunny areas
Anthyllis vulneraria subsp. praepropera	Mediterranean Kidney Vetch (Pink)	widespread in open sunny areas
Astragalus echinatus	a Milk Vetch	nr Monte Sant'Angelo
Astragalus hamosus	a Milk Vetch	Monte Sacro area
Astragalus monspessulanus	False Vetch	Pulsano area
Calycotome infesta	Spiny Broom	scattered sites
Ceratonia siliqua	Carob	Monte Saraceno
Cercis siliquastrum	Judas Tree	Pulsano monastery
Coronilla scorpioides	Annual Scorpion Vetch	scattered sites, roadsides
Cytisus decumbens ssp. elatior	Prostrate Broom	Pulsano Gorge
Dorycnium hirsutum	Dorycnium	Monte Sacro area
Hedysarum coronarium	Harsashaa Vatah	roadside stop
Hippocrepis comosa	Horseshoe Vetch	Peschici - cliff-top site

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False Senna

Scientific name	Common name	Location
Hippocrepis glauca	a Horseshoe Vetch	open sunny areas - scattered
Hippocrepis unisiliquosa	-	Monte Saraceno
Lathyrus aphaca	Yellow Vetchling	widespread in open sunny areas
Lathyrus cicera	a red Vetchling	common in open, grassy areas
Lathyrus clymenum		roadsides near Peony stop
Lathyrus ochrus	-	Fly-tip stop
Lathyrus setifolius	Red Grass Vetchling	roadside stop nr Peschici
Lathyrus venetus		roadsides
Lotus corniculatus	Bird's-foot Trefoil	roadsides, open areas
Lotus cytisodes	a Trefoil	Monte Sacro roadside
Lotus edulis	Edible Lotus	coastal roadside stop
Lupinus micranthus	Hairy Lupin	Bosca da Spina Pulci
Medicago arabica	Spotted Medick	roadsides, field margins
Medicago orbicularis	Large Disk Medick	nr Monte Saraceno
Medicago marina	Sea Medick	coast nr Zaponetta
Medicago polymorpha	Toothed Medick	nr Mullein stop
Medicago rigidula	-	Pilgrim's Path
Melilotus indicus	Small Mellilot	roadsides and lay-bys
Onobrychis aquidentata	a Sainfoin	Iris slopes
Onobrychis caput-galli	Cock's-comb Sainfoin	nr Mullein stop
Onobrychis crista-galli	-	Bosca da Spina Pulci
Onobrychis saxatilis	Rock Sainfoin	?
Pisum sativum	a Pea	nr Peony stop
Psoralea bituminosa	Pitch Trefoil	Bosca da Spina Pulci
Robinia pseudacacia	False Acacia	Roadsides, town gardens
Scorpiurus muricatus	Scorpiurus	stony track nr Pulsano monastery
Securigera (Coronilla) varia	Crown Vetch	Pulsano Gorge
Spartium junceum	Spanish Broom	hillsides near coast at Peschici
Tetragonolobus purpureus	Winged/Asparagus Pea	common in open, grassy areas
Trifolium angustifolium	Narrow-leaved Clover	roadsides
Trifolium campestre	Hop Trefoil	common in stony areas
Trifolium dubium	Lesser Trefoil	grassy areas
Trifolium hirtum	Hairy Trefoil	?
Trifolium incarnatum	Crimson Clover	roadsides near coast
Trifolium medium	Zigzag Clover	Monte Sant'Angelo nr hotel
Trifolium pratense	Red Clover	field margins
Trifolium repens	White Clover	field margins
Trifolium resupinatum	Reversed Clover	roadside nr Bosco Quarto
Trifolium stellatum	Star Clover	widespread in open sunny areas
Trifolium subterraneum	Burrowing Clover	Iris slopes
Trifolium tomentosum	Woolly Trefoil	Monte Sant'Angelo nr hotel
Vicia barbazitae	a small vetch	Bosco Quarto
Vicia benghalensis	Benghal Vetch	roadside stop
Vicia bithynica	Bithynian Vetch	Pilgrim's Path
Vicia cracca	Tufted Vetch	grassy areas, nr Peschici
Vicia hirsuta	Hairy Tare	field margins
Vicia hybrida	a Yellow Vetch	?
Vicia lutea	Yellow Vetch	grassy roadside areas and lay-bys
Vicia melanops	Black Vetch	Pilgrim's Path
Vicia narbonensis	-	field margins
Vicia perigrina	Wandering Vetch (two-tone flowers)	Viola stop nr Bosco Quarto
Vicia sativa agg	Common Vetch	roadsides, field margins
		-

Scientific name Common name Location

Vicia villosa Fodder Vetch Fly-tip stop

Fagaceae Beech Family

Castanea sativa Sweet Chestnut Foresta Umbra Fagus sylvatica Beech Foresta Umbra Bosco Quarto Quercus cerris Turkey Oak Quercus coccifera Spanish Oak Monte Sacro Quercus cerris Turkey Oak widespread Quercus ilex Holm Oak widespread

Quercus pubescens Downy Oak Bosca da Spina Pulci

Fumariaceae Fumitory Family

Corydalis solidaBird-in-a-bushBosco QuartoFumaria capreolataTall Ramping Fumitoryroadside stopsFumaria muralisCommon Ramping FumitorywidespreadFumaria officinalisCommon Fumitorywidespread

Gentianaceae Gentian Family

Blackstonia perfoliata Yellow-wort Olive groves nr Peschici

Geraniaceae Crane's-bill Family

Erodium ciconiuma Stork's-billField margins, stony slopesErodium cicutariumCommon Stork's-billtracks and paths, widespreadErodium malacoidesMallow-leaved Stork's-billnr Mullein stop

Geranium columbinumLong-stalked Crane's-billMullein stopGeranium dissectumCut-leaved Crane's-billMonte Sant'AngeloGeranium lucidumShining Crane's-billMonte Sant'Angelo

Geranium molleDove's-foot Crane's-billwidespreadGeranium purpureumLittle RobinMonte SacroGeranium robertianumHerb RobertwidespreadGeranium rotundifoliumRound-leaved Stork's-billwidespreadGeranium sanguineumBloody Crane's-billQuarry stop

Lamiaceae Deadnettle Family

Acinos alpinusAlpine Basil ThymePilgrim's PathAjuga chamaepitysGround PinePulsano MonasteryAjuga genevensisBlue BugleForesta Umbra

Ajuga orientalis Oriental Bugle ?

Clinopodium acinosBasil-thymevarious orchid sitesLamium bifidum-Pilgrim's PathLamium garganicumLarge Red DeadnettleMonte Sant'Angelo

Lamium maculatumSpotted DeadnettlePilgrim's PathMarrubium vulgareWhite HorehoundMonte SaracenoOriganum vulgareOreganosunny hillsides and stony slopes

Prasium majus Prasium Monte Saraceno

Prasium majus Prasium Monte Saraceno
Prunella vulgaris Selfheal Cyclamen stop

Rosmarinus officinalis Rosemary common on open hillsides, roadsides

Salvia argenteaSilver SageLeaves onlySalvia fruticosaThree-leaved SageMonte SarcenoSalvia pratensisMeadow ClaryWidespreadSalvia verbenacaWild ClaryWidespreadSatureja hortensisSummer Savorynr Mattinata

Plantago arenaria

Scientific name	Common name	Location
Sideritis romana	Common Sideritis	Monte Saraceno
Sideritis syriaca	Syrian Sideritis	?
Stachys cretica	Mediterranean Woundwort	Monte Saraceno
Stachys officinalis	Betony	nr Bosco Quarto
Thymus capitatus	A Thyme	sunny open areas
,	,	, ,
Linaceae	Flax Family	
Linum bienne	Pale Flax	Iris slopes
Linum catharticum	Fairy (Purging) Flax	widespread
Linum narbonense	Beautiful Flax	nr Bosco Quarto
Linum perenne	Perennial Flax	Pulsano area
Linum tenuifolium	-	?
Linum trigynum	-	Monte Sacro
Makasasa	Mellow Femily	
Malvaceae	Mallow Family Tree Mallow	?
Lavatera arborea	Cretan Mallow	·
Lavatera cretica	Cretan Mallow	coast nr Zaponetta
Malva cretica	Door of Mallano	roadside nr Mattinata
Malva neglecta	Dwarf Mallow	coast nr Zaponetta
Malva sylvestris	Common Mallow	widespread along roadsides
Moraceae	Mulberry Family	
Ficus carica	Fig	widely naturalised and cultivated
Oleaceae	Olive Family	
Fraxinus ornus	Flowering Ash	Widespread, hillsides, Bosco da Spina Pulci
Ligustrum vulgare	Privet	Pulsano Gorge
Olea europaea	Olive	Widespread and abundant
Orobanchaceae	Broomrape Family	
Orobanche amethystea	Amethyst Broomrape	Pulsano gorge
Orobanche caryophyllacea	Clove-scented Broomrape	Monte Saraceno
Orobanche minor	Common Broomrape	dried seed heads only
Orobanche purpurea	Yarrow Broomrape	?
Orobanche rapum-genistae	Greater Broomrape	?
Crobanone rapam gemetae	Greater Broomrape	•
Oxalidaceae	Wood-sorrel Family	
Oxalis corniculata	Procumbent Yellow Sorrel	Pulsano Monastery
Oxalis pes-caprae	Bermuda Buttercup	nr Peschici
Paeoniaceae	Peony Family	
Paeonia mascula	A Peony	copses and shady sites nr Bosco
r doorna maddala	AT COMY	Quarto
Papaveraceae	Poppy Family	
Chelidonium majus	Greater Celandine	Pulsano area
Papaver apulum	-	nr Mullein stop
Papaver apalam Papaver hybridum	Rough Poppy	roadsides and field margins
Papaver rhoeas	Common Poppy	field margins
Plantaginaceae	Plantain Family	

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Branched Plantain

quarry stop

Ranunculus muricatus

Scientific name Common name Location Plantago coronopus Buck's-horn Plantain widespread on paths, grassy areas Hare's-foot Plantain Plantago lagopus coast nr Zaponetta Ribwort Plantain Plantago lanceolata roadsides Plantago maritima Sea Plantain on cliffs. Peschici Plantago seraria Monte Saraceno Polygalaceae Milkwort Family Polygala nicaeensis Nice Milkwort Iris slopes widespread in grassy areas Polygala vulgaris Common Milkwort **Knotweed Family** Polygonaceae Rumex obtusifolius **Broad-leaved Dock** Cultivated areas Rumex pulcher Fiddle Dock Cyclamen site Primulaceae **Primrose Family** Anagallis arvensis (Red & Blue forms) Scarlet Pimpernel Field margins, stony areas Cyclamen hederifolium Ivy-leaved Sowbread Leaves only, Foresta Umbra Cyclamen repandum Spring Cyclamen Woodland sites nr Bosca da Spina Pulci Ranunculaceae **Buttercup Family** Ar

Nariaricalaccac	Butter cup i aiiiiiy	
Anemone apennina	Blue Anemone	Widepread in woodlands
Anemone hortensis	-	Open sites, widespread
Clematis ficaria	a Clematis	leaves and buds only
Delphinium peregrinum	a Larkspur	leaves only
Eranthis hyemalis	Winter Aconite	Tulip fields - in seed.
Nigella damascena	Love-in-a-mist	leaves only
Ranunculus acris	Meadow Buttercup	widespread in grassy areas
Ranunculus arvensis	Corn Buttercup	nr Monte Sant'Angelo
Ranunculus bulbosus	Bulbous Buttercup	field margins, nr tulip fields
Ranunculus ficaria	Lesser Celandine	widespread in grassy areas
Ranunculus millefoliatus	-	Pilgrim's Path

Ranunculus sceleratus Celery-leaved Buttercup ditches nr Zaponetta
Ranunculus velutinus - grassy areas nr Bosco Quarto

Rough-fruited Buttercup

nr Tulip fields

ResedaceaeMignonette FamilyReseda albaWhite Mignonettewidespread in open, stony areasReseda luteaWild Mignonetteroadsides, vergesReseda phyteumaCorn Mignonettefield margins

Rhamnaceae

Buckthorn Family

Palliurus spina-christi

Christ's Thorn

Mullein stop

Rhamnus alaternus

Mediterranean Buckthorn

Pulsano Gorge

Pulsano Gorge **Rose Family** Rosaceae Aremonia agrimonioides Bosco Quarto Hawthorn Crataegus monogyna widespread Cydonia oblonga Quince roadside stop Filipendula vulgaris Dropwort nr Mullein stop Fragaria vesca Wild Strawberry widespread

Geum urbanumWood AvensBosco QuartoMalus sylvestrisCrab AppleBosca da Spina Pulci

Scientific name Common name Location

Potentilla hirtaHairy CinquefoilMonte Sacro areaPrunus dulcisAlmondwidely cultivatedPrunus spinosaBlackthornroadsides

Pyracantha coccinia Firethorn planted - Monte Sant'Angelo

Pyrus amygdaliformisAlmond-leaved PearwidespreadRosa sp.A RosePulsano gorgeRubus fruticosus aggBramblewidespread

Rubus sanctus Bramble widespread

Sanguisorba (Poterium) verrucosumMediterranean Salad BurnetPulsano areaSorbus aucupariaRowan or Mountain AshMonte Calvo areaSorbus torminalisWild Service Treenr Monte Calvo

RubiaceaeBedstraw FamilyAsperula taurinaSouthern Woodruff

Asperula taurina Southern Woodruff ?

Cruciata laevipes Crosswort Pilgrim's Path

Galium aparine Cleavers roadsides and field margins
Galium mollugo Hedge Bedstraw nr hotel, Monte Sant'Angelo

Galium odoratum Woodruff Foresta Umbra

Galium setaceumPulsano MonasteryGalium verumLady's Bedstrawnot in flowerRubia peregrinaWild MadderMonte Saraceno

Sheradia arvensis Field Madder widespread

RutaceaeRue FamilyRuta chalepensisFringed Rue

Ruta chalepensis Fringed Rue leaves only, Pulsano Gorge

Santalaceae Sandalwood Family

Osyris alba Osyris foliage only
Thesium sp. a Bastard Toadflax Pulsano area

Saxifragaceae Saxifrage Family

Saxifraga bulbiferaBulbous SaxifrageForesta UmbraSaxifraga granulataMeadow Saxifragewidespread

Saxifraga tridactylites Rue-leaved Saxifrage walls and rocks, widespread

Scrophulariaceae Figwort Family

Antirrhinum siculumSicilian SnapdragonPeschici - Trabucco stopBellardia trixagoBellardiaCoastal site nr Zaponetta

Cymbalaria muralis Ivy-leaved Toadflax Walls, common, Monte

Sant'Angelo
Digitalis ferruginea Brown Foxglove leaves only
Euphrasia agg. Eyebright ?

Linaria pelisseriana Jersey Toadflax ?

Parentucella latifolia Southern Red Bartsia widespread in open, stony areas

Parentucellia viscosaYellow BartsiaFly-tip stopScrophularia peregrinaItalian (Nettle-leaved) Figwortnr Mullein stop

Scrophularia scopolii a Figwort leaves only, Monte Calvo area

Verbascum longifoliuma Mulleinroadside nr PeschiciVerbascum phoeniceumPurple Mulleinnr Bosca da Spina PulciVerbascum thapsusAaron's Rodwidespread on roadsides nr

Peschici

Verbascum undulatum a Mullein leaves and tight buds only

Veronica cymbalaria Cymbalaria-leaved Speedwell Bosco Quarto

Scientific name Common name Location Veronica hederifolia agg Ivy-leaved Speedwell widespread in shaded areas Veronica serpyllifolia Thyme-leaved Speedwell grassy areas Solanaceae **Nightshade Family** Hyoscyamus alba White Henbane walls of Pulsano Monastery Solanum sodomeum cliff-top nr Peschici Apple of Sodom Thymelaeaceae **Daphne Family** Daphne laureola Spurge Laurel Foresta Umbra **Ulmaceae Elm Family** Ulmus sp. An Elm Monte Sant'Angelo Urticaceae **Nettle Family** Parientaria judaica Pellitory of the Wall Common, rocks and walls Cultivated areas Urtica dioica Nettle Urtica pilulifera Roman Nettle Monte Saraceno Valerianaceae **Valerian Family** Centranthus ruber Red Valerian Widespread, roadsides Valeriana tuberosa Pulsano area Valerianella sp. A Cornsalad stony areas, Pulsano Gorge Violaceae **Violet Family** Viola arvensis Field Pansy Iris slopes, Viola site Viola heterophylla ssp. graeca nr Bosco Quarto Viola odorata Sweet Violet Foresta Umbra Viola riviniana Common Dog Violet nr Bosco Quarto Vitaceaea **Grape-vine Family** Vitis vinifera Grape widely cultivated

Liliidae (Monocotyledons)

Araceae Arum italicum subsp. italicum	Arum Family Large Cuckoo Pint	Monte Saraceno, Monte Sacro
•		•
Arum maculatum	Cuckoo Pint	Foresta Umbra
Cyperaceae	Sedge Family	
Carex caryophyllea	Spring Sedge	Quarry stop
Carex divulsa	Grey Sedge	Quarry stop
Carex sylvatica	Wood Sedge	Foresta Umbra
Dioscoreaceae	Black Bryony Family	
Tamus communis	Black Bryony	roadsides stops, shaded areas
Iridaceae	Iris Family	
Crocus sp.	a Crocus	leaves only
Gladiolus italicus	Field Gladiolus	leaves only, but one in flower nr Peschici
Moraea (Gynandriris) sisyrinchium	Barbary Nut	?
Hermodactylus tuberosus	Widow or Snake's-head Iris	widespread, most over, but in flower nr Pulsano

nr Monte Sacro and other sites

Ophrys bertoloniformis*

Scientific name	Common name	Location
Iris foetidissima	Stinking Iris	Foresta Umbra, Cyclamen stop
Iris lutescens*	-	hillsides in Bosco Quarto area
Iris pseudopumilla*	-	Bosco Quarto
Juncacaeae	Rush Family	
Luzula campestris	Field Wood-rush	Bosco Quarto
Luzula forsteri	Southern Wood-rush	Bosca da Spina Pulci
Liliaceae	Lily Family	
Allium neapolitanum	Naples Garlic	Pulsano Gorge
Allium pendulinum	Pendulous Garlic	Bosco Quarto
Allium roseum	Rose Garlic	Mullein stop
Allium subhirsutum	Hairy Garlic	widespread
Allium subvillosum	-	Pulsano Gorge
Allium triquetrum	Three-cornered Leek	nr Peschici
Allium ursinum	Ramsons	Foresta Umbra
Asparagus acutifolius	Spiny Asparagus	widespread, esp Bosca da Spina Pulci
Asphodeline lutea	Yellow Asphodel	locally common
Asphodelus aestivus	Common Asphodel	widespread
Asphodelus fistulosus	Hollow-leaved Asphodel	Pulsano
Bellevalia dubia	Bellevalia	scattered sites on sandy ground
Galanthus sp	Snowdrop sp	leaves and seed-pods only, Bosco Quarto
Muscari comosum	Tassel Hyacinth	widespread
Muscari neglecta	Dark Grape Hyacinth	abundant in some stony areas
Narcissus poeticus	Pheasant's-eye Daffodil	Bosco Quarto
Ornithogalum (umbellatum) angustifolium	Common Star of Bethlehem	widespread
Ornithogalum montanum	Star of Bethlehem	Iris slopes
Ornithogalum pyrenaicum	Bath Asparagus	Mullein stop, buds only
Polygonatum multiflorum	Solomon's Seal	Foresta Umbra
Ruscus aculeatus	Butcher's Broom	widespread, Bosco Quarto,
Smilax aspera	Common Smilax	Foresta Umbra Pulsano Gorge
Tulipa sylvestris	Wild Tulip	abundant in fields below Monte
Urginea maritima	Sea Squill	Sant'Angelo leaves only - widespread.
Orchidaceae	Orchid Family	
	_	Mullain aton
Anacamptis pyramidalis	Pyramidal Orchid	Mullein stop
Cephalanthera longifolia	Sword-leaved Helleborine	Leaves only, nr summit of Monte Sacro
Dactylorhiza fuchsii	Common Spotted-orchid	Leaves and buds only
Dactylorhiza romana	Roman Orchid	Bosco Quarto and other sites
Dactylorhiza sambucina	Elderflower Orchid	scarce, below Monte Calvo
Himantoglossum hircinum	Lizard Orchid	leaf rosettes and tight buds only.
Himantoglossum (Barlia) robertianum	Giant Orchid	going over, a few plants near Bosco Quarto
Neottia nidus-avis	Bird's Nest Orchid	Tight buds, and old flower spikes, Bosco Quarto
Neotinea maculata (intacta)	Dense-flowered Orchid	Pilgrim's Path
Ophrys apifera	Bee Orchid	Going over, a few plants near Mullein stop
Ophrys apulica*	Apulian Ophrys	Pulsano Gorge, Fly-tip stop
Onhrue hartalaniformie*		nr Monte Sacro and other cites

Scientific name	Common name	Location
Ophrys bertolonii	Bertoloni's Bee Orchid	nr Monte Sacro and other sites
Ophrys biscutella	Spectacled Ophrys	Bosco Quarto and other sites
Ophrys bombyliflora	Bumblebee Ophrys	Pulsano Gorge
Ophrys exaltata (archipelagi)	-	roadside below Monte Calvo
Ophrys fuciflora	Late Spider Orchid	Pulsano area
Ophrys fusca	Sombre Bee Orchid	Going over, Monte Saraceno
Ophrys incubacea	Dark Ophrys	roadside stop nr Foresta Umbra
Ophrys iricolor		Monte Sant'Angelo
Ophrys melena / numida	a Yellow Ophrys	Monte Sacro
Ophrys passionis var. garganica*	Gargano Ophrys	Pulsano area and several other sites
Ophrys phryganae	a Yellow Ophrys	scattered sites, open stony areas
Ophrys promontorii*	-	Pulsano areas
Ophrys sicula	-	common and widespread
Ophrys sipontensis*	-	scarce, Pulsano area and Monte Sacro
Ophrys sphegodes	Early Spider Orchid	widespread, seen at most orchid stops
Ophrys tenthredinifera	Sawfly Ophrys	Pulsano area, Monte Sacro and other sites
Ophrys virescens	-	Monte Saraceno
Orchis anthropophora	Man Orchid	widespread, seen at most orchid stops
Orchis italica	Naked Man Orchid	widespread, seen at most orchid stops
Orchis lactea	Milky Orchid	Pulsano area
Orchis morio	Green-winged Orchid	widespread
Orchis papilionacea	Pink Butterfly Orchid	widespread, open sunny sites
Orchis pauciflora	Sparse Flowered Orchid	Monte Sacro
Orchis picta	a Green-winged Orchid	one site only, below Monte Calvo
Orchis provincialis	Provence Orchid	Quarry stop
Orchis purpurea	Lady Orchid	nr Peschici in olive grove
Orchis quadripunctata	Four-spotted Orchid	Monte Sacro
Orchis (Neotinea) ustulata	Burnt Tip Orchid	nr Foresta Umbra
Serapias cordigera	Heart-flowered Tongue Orchid	Bosca da Spina Pulci
Serapias lingua Serapias parviflora	Tongue Orchid Small-flowered Tongue Orchid	Widespread, sunny areas scarce, few plants in one olive
Serapias vomeracea	Plough-share Tongue Orchid	grove Fly-tip stop, but grazed and trampled
Hybrids (a selection)		
Ophrys incubacea x Ophrys garganica	-	possible - nr Monte Sant'Angelo
Ophrys incubacea x Ophrys bertolonii	-	?
Orchis x bivonae (O.anthropophora x O.italica)	-	?
Orchis morio x Orchis papilionacea	-	Pulsano area
Poaceae	Grass Family	
Aegilops geniculata	Aegilops	Pulsano and other sites
Anisantha diandra	Great Brome	fields and roadsides
Anisantha sterilis	Barren Brome	scattered sites
Arundo donax	Giant Reed	wetlands nr coast
Anthoxanthum odoratum	Sweet Vernal Grass	Bosco Quarto
Avena barbata	Bristle Oat	Fields and grassy areas
Avena sterilis	Barren Oat	Fields and grassy areas

Scientific name Common name Location Avena sp. an Oat Briza maxima Large Quaking Grass Mullein stop Briza media Quaking Grass Quarry stop Bromus hordeaceus Soft-brome Peschici cliff-top Catapodium rigidum Fern Grass rocks nr Quarry stop Dactylis glomerata Cock's-foot Mullein Stop Festuca vivipera Viviparous Fescue Peschici nr coast Hordeum murinum Wall Barley Hordeum sp. a Barley widespread Lagurus ovatus Hare's-foot Grass Fly-tip stop Melica uniflora Wood Melick Foresta Umbra Phragmites australis Common Reed nr coastal salt pans Rostraria cristata Mediterranean Hair-grass Peschici Stipa pennata a Feather Grass hillsides nr Peschici

Lichens

Lobaria pulmonaria Tree Lungwort Bosco Quarato, Foresta Umbra

Birds (✓= recorded but not counted; h = heard only)

				April						
	Common name	Scientific name	22	23	24	25	26	27	28	29
1	Pygmy Cormorant	Phalacrocorax pygmeus	6							
2	Little Egret	Egretta garzetta	✓							
3	Eurasian Spoonbill	Platalea leucorodia	✓							
4	Glossy Ibis	Plegadis falcinellus	10							
5	Greater Flamingo	Phoenicopterus ruber	✓							
6	Common Shelduck	Tadorna tadorna	✓							
7	Black Kite	Milvus migrans	✓							
8	Marsh Harrier	Circus aeruginosus	✓							
9	Montagu's Harrier	Circus pygargus		✓	✓			✓		
10	Common Buzzard	Buteo buteo		✓	✓	✓	✓		✓	
11	European Honey Buzzard	Pernis apivorus							✓	
12	Booted Eagle	Hieraeetus pennatus							1	
13	Eurasian Sparrowhawk	Accipiter nisus		✓						
14	Common Kestrel	Falco tinnunculus		✓		✓			✓	
15	Lesser Kestrel	Falco naumanni	✓							
16	Eurasian Oystercatcher	Haematopus ostralegus	✓							
17	Black-winged Stilt	Himantopus himantopus	✓							
18	Stone Curlew	Burhinus oedicnemus	h							
19	Kentish Plover	Chasradrius alexandrinus	✓							
20	Little Stint	Calidris minuta	✓							
21	Wood Sandpiper	Tringa glareola	✓							
22	Green Sandpiper	Tringa ochropus	✓							
23	Common Sandpiper	Actitis hypoleuca	✓							
24	Marsh Sandpiper	Tringa stagnatilis	✓							
25	Black-headed Gull	Larus ridibundus	✓							
26	Slender-billed Gull	Larus genei	✓							
27	Yellow-legged Gull	Larus cachinnans	✓	✓		✓	✓	✓	✓	✓
28	Rock Dove /Feral Pigeon	Columba livia	✓	✓	✓	✓	✓	✓	✓	✓
29	Common Wood Pigeon	Columba palumbus				✓				

						Α	pril			
	Common name	Scientific name	22	23	24	25	26	27	28	29
30	Eurasian Collared Dove	Streptopelia decaocto				✓			✓	
31	Common Cuckoo	Cuculus canorus		h	✓	✓	✓	h	✓	
32	Tawny Owl	Strix aluco						h		
33	Eurasian Scops Owl	Otus scops	h	h	h	h	h			
34	Common Swift	Apus apus	✓	✓	✓	✓	✓	✓	✓	✓
35	Alpine Swift	Apus melba						40+	40+	
36	Pallid Swift	Apus pallidus					✓		✓	
37	Eurasian Hoopoe	Upupa epops	✓		h	h	h	h	h	
38	European Bee-eater	Merops apiaster				h			h	
39	European Green Woodpecker	Picus viridis			✓		h		h	
40	Great Spotted Woodpecker	Dendrocopos major			✓	h	h			
41	Middle Spotted Woodpecker	Dendrocopos medius			✓					
42	Crested Lark	Galerida cristata	✓	✓		✓	✓		h	
43	Woodlark	Lullula arborea		h	h	h		h	h	
44	Barn Swallow	Hirundo rustica	✓	✓	✓	✓	✓	✓	✓	
45	Red-rumped Swallow	Hirundo daurica							✓	
46	Meadow Pipit	Anthus pratensis				✓				
47	Tree Pipit	Anthus trivialis			✓					
48	Yellow (Ashy-headed) Wagtail	Motacilla flava cinereocapilla	✓							
49	Robin	Erithacus rubecula				√				
50	Common Nightingale	Luscinia megarhynchos		h	✓		h	h	✓	
51	Black-eared Wheatear	Oenanthe hispanica		✓						
52	Common Stonechat	Saxicola torquata	√	h	✓	√	√			
53	Song Thrush	Turdus philomelos						✓	√	
54	Mistle Thrush	Turdus viscivorus		h	✓	h				
55	Blackcap	Sylvia atricapilla	✓	···	✓			✓	✓	
56	Common Whitethroat	Sylvia communis			h	✓		h		
57	Subalpine Warbler	Sylvia cantillans		√			✓	···	✓	
58	Zitting Cisticola	Cisticola juncidis	/							
59	Cetti's Warbler	Cettia cetti	'					h	h	
60	Firecrest	Regulus ignicapillus			✓		h		- ''	
61	Great Tit	Parus major		✓	· ✓	✓	· · · · · · · · · · · · · · · · · · ·	✓ ·	✓	✓
62	Blue Tit	Cyanistes caeruleus		, 	· /	· ✓	✓	· ·	· /	•
63	Eurasian Nuthatch	Sitta europaea			✓	✓	,	✓	h	
64	Eurasian Treecreeper	Certhia familiaris			h	, ·		, , , , , , , , , , , , , , , , , , ,	11	
65	Short-toed Treecreeper	Certhia brachydactyla						✓		
	•		/	✓	∨	✓	✓	▼	✓	✓
66	Common Magpie	Pica pica	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	∨	∨	✓	V	▼		•
67	Eurasian Jay	Garrulus glandarius	✓	∨ ✓	∨ ✓	✓ ✓	∨ ✓	✓	h ✓	✓
68	Western Jackdaw	Corvus corono cornix	✓ ✓	∨	∨ ✓	✓ ✓	∨ ✓	✓	∨ ✓	∨
69	Hooded Crow	Corvus corone cornix	V	∨	✓	'	V	'	V	,
70	Common Raven	Corvus corax	./	'	-					
71	Common Starling	Sturnus vulgaris	✓		I.					✓
72	Golden Oriole	Oriolus oriolus			h					
73	Italian House Sparrow	Passer domesticus italiae	✓	√	√	I.	I_	√	√	✓
74	Common Chaffinch	Fringilla coelebs		✓	✓	h	h	✓	√	
75	European Goldfinch	Carduelis carduelis	√			√			√	
76	European Serin	Serinus serinus	✓	✓	√	√		√	√	✓
77 78	Cirl Bunting	Emberiza cirlus		h	√	✓	✓	✓	h	
	Corn Bunting	Miliaria calandra	I .	✓	✓	1	1	I	1	

			April 22 23 24 25 26 27			ı				
	Common name	Scientific name	22	23	24	25	26	27	28	29
Bu	tterflies									
1	Swallowtail	Papilio machaon	√	✓	√	√	√	√	✓	✓
2	Scarce Swallowtail	Iphicides podalirius				✓	✓		✓	
3	Southern Festoon	Zerynthia polyxena				✓	✓		✓	
4	Cleopatra	Gonepteryx cleopatra				✓	✓		✓	
5	Brimstone	Gonepteryx rhamni					✓		✓	
6	Clouded Yellow	Colias crocea		✓	√	✓	✓	✓	✓	
7	Large White	Pieris brassicae		✓	√	✓	✓	✓	✓	
8	Small White	Pieris rapae	√	✓	√	√	√	✓	✓	
9	Southern Small White	Pieris mannii			√	√	√			
10	Orange Tip	Anthocharis cardamines	√	√	√	√	√	✓	✓	✓
11	Eastern Dappled White	Euchloe ausonia	√	✓	✓	✓	✓			
12	Eastern Bath White	Pontia edusa			√	✓				
13	Green Hairstreak	Callophrys rubi				✓	✓		✓	
14	Small Copper	Lycaena phlaeas				✓	✓			
15	Brown Argus	Aricia agestis						✓	√	
16	Holly Blue	Celastrina argiolus				✓				
17	Little Blue	Cupido minimus		✓		✓	✓	✓		
18	Common Blue	Polyommatus icarus		✓						
19	Chapman's Blue	Polyommatus thersites		✓	√	√				
20	Baton Blue	Pseudophilotes baton		✓		√				
21	Painted Lady	Vanessa cardui					√		✓	
22	Red Admiral	Vanessa atalanta				√	√		✓	
23	Peacock Butterfly	Inachis io								
24	Queen of Spain Fritillary	Issoria lathonia			✓	✓	✓			
25	Glanville Fritillary	Melitaea cinxia							✓	
26	Speckled Wood	Parage aegeria			✓					
27	Wall Brown	Lasiommata megera	-	✓						
28	Small Heath	Coenonympha pamphilus	<u> </u>	✓	,	✓ ·	✓ ·	,	· ·	
	oths									
1	Nine Spot Burnet	Syntomis phegea							✓	
2	5-Spot Burnet	Zygaena trifolii					✓			
3 Otl	Cream-Spot Tiger Moth	Arctia villica		✓					✓	
1	Field Cricket	Gryllus campestris							h	
2	an Ascalaphid	Libelloides coccajus							✓	
3	Bee Fly	Bombylius major		✓	✓			✓	✓	
4	Carpenter Bee	Xylocopa violacea		✓	✓			✓	✓	✓
5	Rose Chafer	Cetonia aurata							✓	
6	Flower Chafer	Oxythyrea funesta		✓				✓	✓	
7	a Dung Beetle	Scarabaeus sp		✓						
8	A Leaf Beetle	Chrysolina grossa		✓						
9	Mint Leaf Beetle	Chrysolina menthastri		✓						
10	Giant Centipede	Scolopendra cingulatus		✓	✓		✓		✓	
11	Scorpion	Euscopius flavicaudis		✓						
		,	+							

	Common name	Scientific name	April							
			22	23	24	25	26	27	28	29
Re	ptiles & Amphibians									
1	Edible Frog	Rana esculenta			✓					
2	Green Lizard	Lacerta viridis			✓	✓	✓		✓	
3	Common Wall Lizard	Podarcis muralis					✓		✓	
4	Italian Wall Lizard	Podarcis sicula	✓	✓	✓	✓	✓		✓	
5	Three-toed Skink	Chalcides chalcides			✓					
6	Grass Snake	Natrix natrix					✓	✓		
7	Common Toad	Bufo bufo						✓		
8	Stripe-necked Terrapin	Mauremys caspica						✓		