Flowers of Italy's Gargano **Peninsula**

Naturetrek Tour Report

9 - 16 April 2018







Orchis lactea

Ophrys pegossppassionis





Common Swift

Holly Blues

Report and images by Andrew Cleave



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Summary

We enjoyed a week of pleasant sunny weather and were able to visit all of the key sites of the Gargano National Park where we found a huge range of orchids and other Mediterranean flora. The peaceful countryside was easily accessible and we walked along quiet tracks and through cool woodlands, and in many of the sites we were the only visitors there. We had picnics out of doors every day, with plenty of the local produce on offer. The historic town of Monte Sant'Angelo, with its whirling flocks of Swifts, was well worth a visit, and we ended the week in the picturesque small fishing port of Peschici where we enjoyed spectacular coastal views, Alpine Swifts nesting in the cliffs, and meals of the local seafood. As well as the rich flora we saw many species of butterflies, typical of this region, and had a good list of Mediterranean birds, especially on our visits to the coast.

Day 1 Monday 9th April

Our tour began in Bari where we all gathered after the early morning flight from Gatwick. There was the usual busy period when we had to collect the two minibuses but we were eventually on the road, quickly leaving Bari behind us and heading onto the open road in the flat agricultural land which was under cultivation for as far as we could see. We drove through mile after mile of olive groves, vineyards, market gardens and orchards, but the roadside verges were colourful with wild flowers including Common Mallow Mahra sylvestris, Poppies Papaver sp., Crown Daisies Glebionis (Chrysanthemum) coronarium and Giant Fennel Ferula communis. In places there were tall plants of Woad Isatis tinctoria and stately Stone Pine Pinus pinea trees to break up the horizon. We had a brief stop at a service station for lunch and then continued heading north, leaving the motorway to make for the coast along a minor road. We paused for a while to photograph the Giant Fennel and other roadside flowers, and scanned the fields for Lesser Kestrels and Corn Buntings.

Our next stop was by the sea at some salt pans where there were more interesting coastal plants and many wetland birds to spot, including Greater Flamingos, Pygmy Cormorants and Slender-billed gulls. The first orchids of the trip were spotted on a bank, in the form of several magnificent spikes of Giant Orchid Himantoglossum robertianum, many of them providing shelter for small terrestrial snails. After this breath of sea air we continued towards the limestone hills of Gargano which we could see in the distance. The flat plains gave way to a very steep limestone massif, which we climbed by way of many hairpin bends. We arrived at Monte Sant'Angelo in time to check in to the Palace Hotel and then have a brief orientation walk before our evening meal. The second orchid on our list was the Gargano form of the Early Spider Orchid Ophrys sphegodes subsp. passionis, with several spikes being found close to the hotel lobby. We had a brief get-together to go over the plans for the week ahead and enjoyed our first evening meal together.

Day 2 Tuesday 10th April

Andrew and Pete collected picnic supplies after breakfast and we were then ready for our first full day in Gargano. We only needed to drive a very short distance from the hotel in order to reach a good habitat for flowers. The stony hillside with its neglected terraces looked rather blank at first but, as soon as we stepped out of the minibus, we started spotting the first orchids and other Mediterranean flora. The very small subspecies of Yellow Bee Orchid Ophrys lutea subsp. galilea was quite common on these slopes, and we also found plenty of

examples of the endemic Gargano Early Spider Orchids *Ophrys sphegodes* subsp. *passionis* and the most attractive Sawfly Orchid *Ophrys tenthredinifera*. More and more discoveries were made here as we spread out over the hillside. The curious cushion-forming Spiny Spurge *Euphorbia spinosa* filled the air with the scent of honey, and other typical Mediterranean scents were released as we walked over the short herb-rich turf. We moved further along the road to a slightly different habitat with more shrubs and steeper terraces and found many new species, including the Milky Orchid *Neotinea lactea* and large numbers of Man Orchids *Orchis anthropophora*.

We enjoyed our first picnic under the shade of some Eastern Hornbeam *Carpinus orientalis* trees before driving further along the road to the Pulsano Monastery, perched on the edge of the gorge. We explored the partly-restored monastery and grounds where we found the endemic Pale Golden Drops *Onosma echioides* and three species of Asphodel, but there were plenty of more common flowers here as well, such as the Field Marigold *Calendula arvensis* which also added splashes of colour. A short walk down the track in the gorge gave us the chance to find a colony of Bumblebee Orchids *Ophrys bombyliflora* and many more colourful species. This "Sentiero Natura" had many shrubs and herbs with labels beside them, including the endemic Gargano Bellflower *Campanula garganica* and the very abundant Turpentine Tree *Pistacia terebrinthus*. This pleasant and gentle walk was also ideal for spotting butterflies and there were several species on the wing in the warm sunshine, however a thick mist descended and it soon became much cooler. By now it was time to return to the hotel after our very full day. We met again before the evening meal to go over our checklists and discuss the plans for the next day.

Day 3

Wednesday 11th April

The plan for today was to visit the Bosco Quarto, an extensive area of woodland and pastures a short distance from Monte Sant'Angelo. Our first stop was in some agricultural land in the floor of the valley where Wild Tulips grow amongst the cereal crop in what is a most unlikely situation for a perennial species. We found drifts of Tulips Tulipa sylvestris growing along the field margins and in the crop and were able to get some close views of them as we were serenaded by a nightingale on the distant hillside. Rather less colourful than the tulips, but an interesting find, was the diminutive Cotswold Pennycress Microthlaspi perfoliata, with some plants in flower and others showing the characteristic penny shaped seed pods. Further along the road we stopped at the start of the trail into the forest. A large flat field proved to be a superb site for orchids with many species growing in great abundance here. We added some new ones to our list, including Burnt Orchid Neotinea ustulata and some buds of Lizard Orchid Himantoglossum hircinum, but the most common species here were Green-winged Anacamptis morio, Pink Butterfly A. papilionacea and Naked Man Orchids Orchis italica. In some places it was almost impossible to walk without stepping on them. Across the road we found many more orchids, including the Spectacled Ophrys Ophrys argolica subsp. biscutella. In a little copse of Turkey Oaks Quercus cerris there were at least three colour forms of the endemic Viola Viola graeca subsp. heterophylla and the very attractive Benghal Vetch Vicia benghalensis. After another short drive we stopped by a steep bank where wild Peonies Paeonia mascula were growing – mostly in leaf or tight bud, but some were open and very photogenic.

We then drove further into the forest along gravel roads until we reached a lonely picnic spot in a clearing surrounded by some ancient pollarded hornbeam trees. Andrew and Pete prepared the picnic here while the group explored the woods, finding new species for the list, such as Coralroot Bitter-cress *Cardamine bulbifera*, Ivyleaved Bitter-cress *C. plumieri* and Bird-in-a-bush *Corydalis solida*. After our picnic we walked on through the forest to some steep stony slopes where drifts of Irises *Iris lutescens* and *I. pseudopumila* flowered amongst the rocks. An

almost dry muddy puddle had attracted several Holly Blue Butterflies which were finding something attractive in the mud. More Spectacled Ophrys were found here, and a common plant was Birthwort *Aristolochia rotundifolia*, with its strange flowers just showing between the leaves.

On the drive back out of the forest we stopped to photograph the Pheasant's-eye Narcissi Narcissus poeticus which were filling the air with their scent. A car stopped beside us at one point and the driver emerged with a wicker basket and beckoned for us to inspect the contents. He had been collecting fungi in the forest and proudly showed us some large edible Morels Morchella esculenta. He also warned us about the possibility of encountering snakes in the forest, although our snake sightings in previous years have been almost non-existent. We returned to the hotel by the same route and all met up again to go over the checklists before dinner.

Day 4

Thursday 12th April

We had a slightly earlier start today, with the group getting the chance to visit the little supermarket where we did our daily shop for picnic supplies. We then took the road out of town towards Mattinata, enjoying lovely views of the Gulf of Manfredonia as we negotiated the hair-pin bends. We stopped at one view point to admire the hillsides covered in neatly constructed stone terraces and vast numbers of ancient Olive trees. A short stroll along one of the terraces proved to be very interesting with a chance to look at some of the typical flora of the hillsides, including Mallow-leaved Bindweed Convolvulus althaeoides and the striking yellow composite Urospermum Urospermum dalechampii. We followed the road down to Mattinata where the short by-pass had cut through Olive groves with some extraordinary old trees in them, many with massive gnarled trunks. The road then wound on upwards to Monte Sacro, a very famous botanical site, and also a popular walk with a ruined monastery at the summit. We took our time on this walk, with several new discoveries, including the Fourspotted Orchid Orchis quadripunctata, Sparse-flowered Orchid Orchis pauciflora and a very rare hybrid between the two. The trail was well marked, and obviously well used and we did not need to wander far from it to find plenty of interest. The endemic Ophrys promontorii was quite common in places and we also found the endemic form of Late Spider Orchid Ophrys fuciflora subsp. apulica here. Another plant of interest was the Spotted Rock-rose Tuberaria guttata, the most delicate of the Cistacae to grow here. The deciduous trees were all coming into leaf and in the spring sunshine the various shades of green looked most attractive.

After our picnic we drove down the road a short distance before stopping where some cattle, and a large bull, were grazing peacefully. This was a good site of Bertoloni's Bee Orchid Ophrys bertolonii and the hybrid Ophrys x bertoloniformis. We had plenty of good specimens of these and a few other species like the Common Star-of-Bethlehem Ornithogalum umbellatum. The final stop of the day was to be at Monte Saraceno, another important historic site, noted for the large number of burial chambers carved out of the limestone. On the trail out to the ancient site we found a few specimens of the melanic form of the Yellow Bee Orchid Ophrys lutea subsp. melena, and a large patch of Roman Nettle Urtica pilulifera. The burial chambers were a good spot to look for plants like Maidenhair Fern Adiantum capillus-veneris and Pellitory-of-the-Wall Parietaria judaica, and there were several species of Broomrape emerging. At the end of the outcrop we had views back down to Mattinata in one direction and along the coast to Manfredonia the other way. A rather straggly shrub growing near the ruins was Osyris alba, and there were large patches of White Horehound Marrubium vulgare and smaller amounts of a pink Horehound M. allyson growing around the enclosures. Some fine specimens of Large Cuckoo Pint Arum italicum were seen growing in shady hollows near the path back to the minibuses. After another very full day of discoveries, and in

beautiful sunny weather, it was finally time to return to the hotel. We met up before our evening meal and went through the checklists, compared photographs and discussed the plans for the next day.

Day 5

Friday 13th April

We spent some time exploring the maze of streets and historic buildings in the town this morning. Monte Sant'Angelo is a UNESCO World Heritage site and is full of fascinating churches, towers and winding streets. After an interesting time here, we set off to follow the Pilgrim's Path, the ancient track used by pilgrims visiting the shrines of Monte Sant'Angelo for many centuries. This pleasant track leads down from the town into a green valley and all along the route there are flowers to be seen, including large numbers of Gargano Early Spider Orchids, other curiosities like the Black Vetch *Vicia melanops*. This is a good area for butterflies and we had close views of several species as we descended. We had arranged to have a minibus at either end of the trail, so Andrew and Pete were able to pick up the second bus which we had left at the hotel and then gather up the group and carry on to the lovely woodlands and meadows surrounding Monte Calvo, the highest peak in Gargano.

We stopped at another secluded woodland picnic site and enjoyed pleasant sunny conditions for our explorations here. More Peonies were discovered close to the road, and the woodland had extensive displays of Blue Anemone Anemone apennina and Pheasant's-eye Narcissus Narcissus poeticus. A stroll through the woods after lunch led us to an area where we found Roman Orchids Dactylorhiza romana and a few Elder-flowered Orchids D. sambucina, and many more Spectacled and Sparse-flowered Orchids on the open slopes. The final stop for the day was at a copse of Wild Service Trees Sorbus torminalis where there were uncountable numbers of Roman Orchids, a few more Elder-flowered and several stands of what looked like Common Spotted Orchids but were in fact the very similar Wedge-lipped Orchid Dactylorhiza saccifera. Purple Gromwell Buglossoides purpurocaerulea, more narcissi, Meadow Saxifrage Saxifraga granulata and various vetches added to the colourful ground flora. After a gentle ramble here, we set off on the drive back to Monte Sant'Angelo, admiring the fields full of Yellow Asphodel Asphodeline lutea and the stony roadside slopes covered in yellow and purple irises.

Day 6

4

Saturday 14th April

Today we left the Palace Hotel and set off for Peschici. Our route took us down to the Tulip fields and then up into the hilly area leading to the Foresta Umbra. We stopped on the way to explore a little track which had orchids growing in profusion along the grassy margins. A new species here was the variety of Green-winged known as *A. morio* subsp. *picta*, but there were plenty of familiar species here as well. We gained height as we travelled on into the forest and the vegetation changed from typical Mediterranean shrubs such as Tree Heather *Erica arborea* and Narrow-leaved Cistus *Cistus monspeliensis* to dense Beech *Fagus sylvatica* woods. We stopped at a picnic site in the shade of some magnificent Beech trees and followed the trail through the woods to the small lake. There were large concentrations of tadpoles in the shallows and some Golden Orfe cruising around. As well as the lofty Beech trees there were some huge ancient Yew trees *Taxus baccata* in the woods, and strangely, for the middle of the day, a Tawny Owl hooted from time to time. The deep hollows in the limestone were filled with mosses and ferns, making quite a contrast with the sunny hillsides we had been exploring earlier in the week.

After our picnic we drove on through the forest, pausing to look as some Fallow Deer in an enclosure. Further down the road, after many twists and turns, we pulled off to look at a large patch of Spring Cyclamen *Cyclamen repandum* which were growing on the steep bank. On the roadside there were many colourful shrubs and one more secretive plant which we eventually found a little further up the road: *Daphne sericea* is a delicately scented but rather small-flowered species. We were soon out of the forest and back in the Mediterranean zone again with vines, olives and citrus trees on either side. We pulled off the road at a lay-by unfortunately piled with debris, but the shrubby area next to it had a very good display of orchids, including some splendid Late Spider Orchids, Ploughshare Tongue Orchids *Serapias vomeracea* and the very scarce *Ophrys oestrifera* subsp. *montis-gargani*. After a thorough search here, we followed the road to Peschici and finally arrived at our destination, the Hotel Elisa.

It did not take long to check in to the rooms and there was time for an exploration of the attractive harbour and small town before we met in the bar to go over our checklists. The colony of Alpine Swifts in the cliffs provided quite a spectacle as they came down to investigate their nest sites. We then enjoyed a lovely seafood supper which the Hotel Elisa is famous for. We also enjoyed the unusual spectacle of seeing the sun set over the sea even though we were on the east coast of Italy.

Day 7

Sunday 15th April

This was to be our last full day in Gargano so we made an early start after breakfast and headed west, stopping first to look at the Trabuco, the traditional fixed fishing net found in this region. Growing on the walls of the ancient tower were Sicilian Snapdragons Antirrhinum siculum and the endemic Gargano Bellflower Campanula garganica. The very scenic coastal route snaked down past Peschici's attractive rural railway station and then up again through Olive groves on terraced hillsides. We stopped at one Olive grove to look at a magnificent colony of Lady Orchids Orchis purpurea; the plants themselves were tall and robust and there were probably over 100 flower spikes in the area we looked at. On the roadside bank there were a few spikes of White Helleborine Cephalanthera damasonium just starting to open up. After this pleasant interlude we carried on up the hill and then joined the highway which led west towards the Lago Verano. We turned off after some miles and took a narrow road into a more hilly habitat. On one track we found the very attractive Purple Mullein Verbascum phoenicium and a new orchid for the list was the Dark Ophrys Ophrys sphegodes subsp. atrata.

The next stop was at an abandoned quarry on the edge of the Bosco di Spina Pulci. Here we were able to find two more orchid species which we had not come across so far. The Small-patterned Ophrys Ophrys fuciflora subsp. parvimaculata is a very rare species only found in the west of Gargano and a fine stand of these looked very photogenic. Nearby were a few specimens of the Provence Orchid Orchis provincialis just starting to go over but still showing all the important features. More Cyclamens were found here, and in amongst the spiny shrubs and limestone rocks there was a very rich flora. We carefully moved through the thickets of Christ's Thorn Paliurus spina-christi and the foul-smelling Bean Trefoil Anagyris foetida and were rewarded by finding Tongue Orchids Serapias lingua and more Yellow Bee Orchids. Bloody Cranesbill Geranium sanguineum was added to our list of British native species. We had a lunch break here and then started on the journey back to Peschici. Some of the group opted for a walk along the beach to look at the flora on the cliffs, which included Jupiter's Beard Anthyllis barba-jovis, a large shrubby close relative of Kidney Vetch. There were plenty of interesting shells to be found on the beach, including the Purple Dye Murex, used in ancient times to extract the purple dye for Roman togas. The Alpine Swifts appeared again as the sun set over the sea and we enjoyed another seafood supper.

Day 8

Monday 16th April

We had to make an early start this morning to get back to Bari for the return flight to Gatwick, so we left Peschici promptly after breakfast at 7am and headed back for the highway, passing some of the sites we had visited the previous day. There was not much traffic at this time of the day so we made good progress. From the minibus we could see the wisps of smoke rising from the Olive groves as the annual spring pruning was taking place, and some of the trees appeared to have had a very drastic pruning with chain saws. Some had bare earth beneath them, but in places there was a colourful flora and we recognised Rosy Garlic *Allium roseum* and Borage *Borago officinalis* in one place. We could see the contrasting habitats as we travelled, with the Gargano massif always there on the horizon. The verges were still colourful with wild flowers and we had glimpses of a few birds, mainly gulls and corvids, as we travelled. Pulling off the autoroute near the airport we passed some tall Eucalyptus trees and these had the large untidy nests of Monk Parakeets in them, and a few of the birds were seen as we passed by.

We arrived at the airport in time for the check in and Andrew and Pete, who were staying on to look after a second group due to arrive shortly, said their farewells to everyone before they left.

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Pulsano gorge walk

Species Lists

Anacardiaceae

Pistacia lentiscus

Apiaceae

Pistacia terebinthus

Conium maculatum

Plants (* = a species is endemic)

This list has been updated according to 'The Plant List' (www.the plantlist.org) based on DNA analysis.

Scientific name	Common name	Location

PTERIDOPHYTES	FERNS & ALLIES	
Leptosporangiate Ferns	True Ferns	
Aspleniaceae	Spleenwort family	
Asplenium adiantum-nigrum	Black Spleenwort	rocks and walls, common
Asplenium ceterach	Rustyback	sunny, exposed rocks and walls
Asplenium (Phyllitis) scolopendrium	Hart's-tongue Fern	Foresta Umbra
Asplenium trichomanes	Maidenhair Spleenwort	Bosco Quarto - on rocks
Dennstaeditiaceae	Bracken Family	
Pteridium aquilinum	Bracken	widespread in Bosco Quarto
Dryopteridaceae	Buckler-fern Family	
Dryopteris dilatata	Broad Buckler-fern	Foresta Umbra
Polystichum setiferum	Soft Shield-fern	Foresta Umbra
Polypodiaceae	Polypody Family	
Polypodium vulgare	Common Polypody	Bosco Quarto
Pteridaceae	Ribbon Fern Family	
Adiantum capillus-veneris	Maidenhair Fern	Monte Saraceno - in burial chambers
GYMNOSPERMS	CONIFERS	
Cupressaceae	Juniper Family	
Cupressus sempervirens	Italian Cypress	Pulsano Monastery
Juniperus oxycedrus	Prickly Juniper	Pulsano Gorge
Pinaceae	Pine Family	
Pinus halepensis	Aleppo Pine	Monte Saraceno
Pinus pinaster	Maritime Pine	Monte Saraceno
Pinus pinea	Stone or Umbrella Pine	roadside tree, common near Bari
Taxaceae	Yew Family	
Taxus baccata	Yew	Foresta Umbra, some very large and old
ANGIOSPERMS	FLOWERING PLANTS	
Pre-dicots	Primitive Angiosperms	
Aristolochiaceae	Birthwort Family	
Aristolochia rotunda	A Birthwort	Monte Sacro, Foresta Umbra
Eu-dicots	True Dicotyledons	
Acanthaceae	Bear's-breech Family	
Acanthus mollis	Bear's-breech	Monte Sant'Angelo
Adoxaceae	Moschatel Family	
Sambucus ebulus	Dwarf Elder or Danewort	near Peschici
Sambucus nigra	Elder	Forest Umbra
Viburnum opulus	Wayfaring Tree	Bosco Quarto
Viburnum tinus	Laurustinus	Peschici
Aizoaceae	Dew-plant Family	
Carpobrotus acinaciformis	Sally-my-handsome	Peschici, common on walls and around harbour

Crithmum maritimum Rock Samphire Peschici Daucus carota Wild Carrot Peschici

Sumach Family

Turpentine Tree **Carrot Family**

Mastic Tree

Hemlock

Eryngium campestre Field Eryngo widespread, leaves only, not flowering

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Pulsano

widespread

Pulsano Gorge, widespread

Scientific nameCommon nameLocationFerrula communisGiant Fennelwidespread and common in placesLaserpitium latifoliumBroad-leaved SermountainPilgrim's Path, leaves onlyOrlaya grandifloraOrlayaPulsano MonasterySanicula europaeaSanicleForesta Umbra

 Scandix pecten-veneris
 Shepherd's Needles
 widespread, stony areas

 Smyrnium perfoliatum
 Perfoliate Alexanders
 Monte Sacro

 Thapsia garganica
 Thapsia
 leaves only, Pulsano road

 Tordyllium
 Perfoliate Alexanders
 Olive grave roadside ston

Tordylium apulumTordyliumOlive grove roadside stopTorilis arvensisSpreading Hedge ParsleyBosco Quarto areaApocynaceaePeriwinkle Family

Nerium oleanderOleandercommon in townsVinca majorPeriwinkleBosco QuartoAquifoliaceaeHolly Family

Ilex aquifolium Holly Bosco Quarto

AralaceaeIvy FamilyHedera helixIvyvery common and widespread

BetulaceaeBirch FamilyBetula pendulaSilver BirchBosco QuartoCorylus avellanaHazelPilgrim's PathCarpinus orientalisEastern HornbeamPulsano road

BoraginaceaeForget-me-not FamilyAlkanna tinctoria (lehmanii)Dyer's Alkanetwidespread, open stony areas

Anchusa caerulea - stony areas, Olive grove stop
Anchusa cretica - Bosco Quarto

Anchusa azurea (italica) Large Blue Alkanet roadside stop nr Peschici

Borago officinalis Borage nr Peschici

Buglossoides (Lithospermum) arvenseCorn GromwellMonte Calvo woodsBuglossoides (L.) purpurocaeruleaPurple GromwellMonte Calvo woods

Cerinthe majorHoneywortnr PeschiciCynoglossum creticumCretian Hound's-tongueMonte SacroEchium italicumPale Buglosscoastal salt pans

Purple Viper's Bugloss roadsides Echium platagineum Echium vulgare Viper's-bugloss roadsides Pulsano road Myosotis arvensis Field Forget-me-not Myosotis discolor Changing Forget-me-not Bosco Quarto Myosotis ramosissima Early Forget-me-not Pilgrim's Path Myosotis sylvatica Wood Forget-me-not Bosco Quarto Onosma (lucana*) echioides Pulsano Monastery Pale Goldendrops

Pulmonaria montanaMountain LungwortBosco QuartoPulmonaria officinalisCommon Lungwortleaves onlySymphytum (tuberosum)a ComfreyPilgrim's Path

BrassicaceaeCabbage FamilyAethionema saxatileBurnt CandytuftBosco QuartoAlliaria petiolataGarlic MustardPilgrim's PathAlyssum montanumMountain AlyssumPilgrim's PathAurinia (Alyssum) saxatileYellow Alyssumwidespread

Aurinia (Alyssoides) sinuataAlyssoidesPulsano MonasteryArabis caucasicaGarden RockcressMonte Sant'AngeloArabis hirsutaHairy RockcressPilgrim's PathArabis turritaTower MustardroadsidesArabis vernaSpring RockcressPilgrim's Path

Aubretia columnae subsp. italica an Aubretia Pilgrim's Path

Biscutella didyma Biscutella widespread, open sunny areas

Cistus monspeliensis

Helianthemum apenninum

Cistus salvifolius

Scientific name Common name Location Cakile maritima Sea Rocket salt marsh stop, Zaponetta Capsella bursa-pastoris Shepherd's Purse widespread, roadsides Cardamine bulbifera Coralroot Bitter-cress Bosco Quarto Cardamine plumieri Ivy-leaved Bitter-cress Bosco Quarto Cheiranthus cheiri Wallflower Peschici Eruca sativa Wild Rocket roadsides Hesperis matronalis Dame's Violet Monte Calvo area Isatis tinctoria Woad roadsides near Bari nr Peschici Lepidium (Cardaria) draba **Hoary Cress** Lobularia maritima Sweet Alison Pulsano Matthiola incana salt marsh area nr Zaponetta Hoary Stock Microthlaspi perfoliatum Cotswold Penny-cress Tulip stop Wild Radish salt marsh nr Zaponetta Raphanes raphanistrum Sinapis alba Charlock grassy areas Sinapis arvensis White Mustard agricultaral land near Bari Sisymbrium officinale Hedge Mustard widespread Thlaspi praecox A Penny-cress Tulip stop Turritis brassica (Fourraea alpina) two plants beside road in Bosco Quarto Cactaceae **Cactus Family** Peschici Opuntia ficus-indica Prickly Pear Campanulaceae **Bellflower Family** Monte Sant'Angelo castle, Peschici walls Campanula garganica* a Bellflower (endemic) Caprifoliaceae Honeysuckle Family Centranthus ruber Red Valerian roadsides Dipsacus fullonum Wild Teasel waste areas, verges Lomelosia crenata subsp. dalleportae* An endemic Scabious Pulsano Gorge Etruscan Honeysuckle Lonicera etrusca Quarry stop Lonicera periclymenum Honeysuckle Bosco Quarto Scabiosa ochroleuca Yellow Scabious Mullein stop Valeriana tuberosa widespread A Cornsalad Valerianella agg. Tulip stop **Pink Family** Caryophyllaceae Arenaria serpyllifolia Thyme-leaved Sandwort Pulsano gorge Cerastium fontanum Common Mouse-ear widespread Cerastium glomeratum Sticky Mouse-ear Tulip stope Petrorhagia velutina Kohlrauschia nr Peschici Silene colorata Pulsano gorge Silene conica Sand Catchfly salt pan stop nr Zaponetta Silene italica Italian Catchfly Monte Saraceno Silene latifolia White Campion roadsides Silene vulgaris **Bladder Campion** nr Tulip stop Stellaria media Common Chickweed roadsides and verges Stellaria nemorum Wood Stitchwort Bosco Quarto rocks at Peschici Spergularia sp a Spurrey **Spindle Family** Celastraceae Euonymus europaeus Bosco Quarto Spindle Chenopodiaceae **Goosefoot Family** Chenopodium album Fat Hen Tulip stop Cistaceae **Rock-rose Family** Cistus creticus Pink Cistus roadsides, most common nr Peschici

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Monte Saraceno

nr Bosco Quarto

common in stony areas

Narrow-leaved Cistus

Sage-leaved Cistus

White Rock-rose

widespread on stony hillsides

Scientific name Common name Location Helianthemum oelandicum subsp. Hoary Rock-rose nr Foresta Umbra incanum Helianthemum nummularium

Helianthemum salicifolium Willow-leaved Rock-rose Pulsano Monastery road Spotted Rock-rose Monte Sacro Tuberaria guttata

Rock-rose

Compositae (Asteraceae) **Daisy Family**

Yarrow Achillea millefolium roadside stop nr Monte Sant'Angelo Andryala integrifolia Andryala leaves and buds only Wormwood Artemisia absinthium Pulsano Monastery Bellis perennis Daisy widespread and common Bellis sylvestris Southern Daisy Pulsano roadside stop Calendula arvensis Field Marigold common in grassy areas

Centaurea alba a Knapweed nr Bosco Quarto Centaurea cyanus Cornflower leaves only

Centaurea diomedea A fine-leaved Knapweed mostly in tight bud, Monte Saraceno Cirsium tenoreanum a Woolly Thistle leaves only

Crepis rubra Pink Hawksbeard

common and widespread

Crupina crupinastrum Crupina Pulsano road Dittrichia viscosa Woody Fleabane not in flower Heart-leaved Leopard's-bane Doronicum columnae Bosco Quarto Evax pygmaea Fvax Pulsano Monastery Galactites tomentosa Galactites widespread and common Glebionis coronarium Crown Daisy roadsides near Bari Glebionis segetum Corn Marigold field margins

Helichrysum stoechas **Curry Plant** Monte Saraceno Jurinea mollis a 'soft' Thistle Monte Saraceno Matricaria recutita Scented Mayweed Peschici

Pallenis spinosa **Pallenis** Mullein stop - mostly in bud Phagnalon rupestre Phagnalon Monte Saraceno

Ptilostemon gnaphaloides a Ptilostemon Monte Saraceno Reichardia tingitana garden escape in Peschici

Rhagadiolus edulis possibly this species at Fly-tip stop Rhagadolus stellatus Star Hawkbit Mullein stop, and Fly-tip stop

Scorzonera laciniata Cut-leaved Viper's-grass Mullein stop Scorzonera villosa Hairy Viper's Grass Bosco Quarto Senecio gallicus coastal salt pans Senecio (integrifolius) a Fleawort nr Peschici Senecio vulgaris Groundsel Tulip stop

Silybum marianum Milk Thistle Bosco Quarto Sonchus asper Prickly Sow Thistle Tulip stop a Dandelion widespread in grassy areas Taraxacum agg. Tragopogon crocifolius grassy areas, Pilgrim's Path

Tragopogon hybridum occasional sightings Tragopogon porrifolius Salsify roadsides and verges Scentless Mayweed Tripleurospermum inodoratum roadside Tulip stop

Tussilago farfara Colt's-foot leaves only, Bosco Quarto

Urospermum dalechampii Urospermum Olive grove roadside stop Urospermum picroides Fly-tip stop

Convolvulaceae **Bindweed Family** Calystegia sepium Hedge Bindweed Pilgrim's Path

Convolvulus althaeoides Mallow-leaved Bindweed common on roadside banks and rocks Convolvulus althaeoides

a Mallow-leaved Bindweed possibly seen nr Monte Sacro subsp.tenuissimus Pink Bindweed Convolvulus cantabrica possibly seen on roadside - Mattinata

Scientific name	Common name	Location
Cuscuta campestris	Field Dodder	thought to be this species - nr Peschici
Cornaceae	Dogwood Family	
Cornus sanguinea	Dogwood	nr Peschici
Crassulaceae	Stonecrop Family	
Sedum acre	Biting Stonecrop	roadside rocks nr Foresta Umbra
Sedum album	White Stonecrop	Pilgrim's Path
Sedum rubens	Reddish Stonecrop	leaves only
Sedum stellatum	Starry Stonecrop	possibly - leaves only
Umbilicus rupestris	Wall Pennywort	common on rocks in Bosco Quarto
Cucurbitaceae	Cucumber family	
Bryonia dioica	White Bryony	nr Peschici
Ecballium elaterium	Squirting Cucumber	salt marsh near Zaponetta
Ericaceae	Heather Family	
Arbutus unedo	Strawberry Tree	road to Foresta Umbra
Erica arborea	Tree Heather	road to Foresta Umbra
Euphorbiaceae	Spurge Family	
Euphorbia amygdaloides	Wood Spurge	Bosco Quarto
Euphorbia characias subsp.characias	Mediterranean Spurge	widespread and common
Euphorbia cyparissias	Cypress Spurge	nr Peschici
Euphorbia helioscopia	Sun Spurge	Tulip stop, Pulsano Monastery
Euphorbia myrsinites	Braod-leaved Glaucous Spurge	Bosco Quarto
Euphorbia peplus	Petty Spurge	Tulip stop
Euphorbia spinosa	Spiny Spurge	common on some stony sites, Pulsano
Mercurialis annua	Annual Mercury	Monte Saraceno
Mercurialis perennis	Dog's Mercury	Bosco Quarto
Fagaceae	Beech Family	
Castanea sativa	Sweet Chestnut	Foresta Umbra
Fagus sylvatica	Beech	Foresta Umbra
Quercus cerris	Turkey Oak	Bosco Quarto
Quercus coccifera	Spanish Oak	Monte Saraceno
Quercus ilex	Holm Oak	widespread
Quercus pubescens	Downy Oak	nr Peschici
Gentianaceae	Gentian Family	
Blackstonia perfoliata	Yellow-wort	Olive grove nr Peschici
Geraniaceae	Crane's-bill Family	
Erodium ciconium	a Stork's-bill	Peschici
Erodium cicutarium	Common Stork's-bill	widespread and common
Erodium malacoides	Mallow-leaved Stork's-bill	Olive grove stop
Geranium columbinum	Long-stalked Crane's-bill	Bosco di Spina Pulci
Geranium dissectum	Cut-leaved Crane's-bill	roadsides
Geranium lucidum	Shining Crane's-bill	Bosco Quarto
Geranium molle	Dove's-foot Crane's-bill	widespread
Geranium purpureum	Little Robin	Bosco Quarto
Geranium robertianum	Herb Robert	widespread
Geranium rotundifolium	Round-leaved Crane's-bill	Bosco Quarto, Pilgrim's Path
Geranium sanguineum	Bloody Crane's-bill	Quarry stop
Hypericaceae	St. John's-wort Family	
Hypericum perforatum	Perforate St. John's-wort	leaves only
Lamiaceae	Deadnettle Family	legues only access this year
Ajuga chamaepitys	Ground Pine	leaves only, scarce this year
Clinopodium (Acinos) albinus	Basil-thyme	Pulsano road
Clinopodium (Acinos) alpinus	Alpine Basil Thyme	Monte Sacro

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Pilgrim's Path

Bifid Dead-nettle

Lamium bifidum

Medicago orbicularis

Medicago polymorpha

Scientific name Common name Location Lamium garganicum Large Red Dead-nettle Monte Sant'Angelo Lamium maculatum Spotted Dead-nettle Pilgrim's Path Marrubium alysson a pink Horehound Monte Saraceno Marrubium vulgare White Horehound Monte Saraceno - abundant Origanum vulgare Oregano Pulsano areas Prasium majus Prasium Pilgrim's Path, Monte Saraceno Prunella vulgaris Selfheal Bosco Quarto Rosmarinus officinalis Rosemary widespread and common Salvia argentea Silver Sage leaves only, Pulsano road Salvia fruticosa Three-leaved Sage Pulsano road, first stop Salvia pratensis Meadow Clary Bosco Quarto Salvia verbenaca Wild Clary scattered sites, common Satureja hortensis Summer Savory Olive grove stop Sideritis romana Common Sideritis Pilgrim's Path Stachys cretica Mediterranean Woundwort Bosco Quarto Stachys officinalis Betony leaves and buds only Thymus capitatus A Thyme widespread, stony areas Leguminosae (Fabaceae) **Pea Family** Anagyris foetida Bean Trefoil nr Peschici, Quarry stop Jupiter's Beard Rocks and cliffs at Peschici Anthyllis barba-jovis Anthyllis vulneraria agg. Kidney Vetch Mediterranean Kidney Vetch Anthyllis vulneraria subsp. praeporea very common, Pulsano monastery road (Pink) Astragalus monspessulanus False Vetch Pulsano Gorge Bitumaria bituminosa Pitch Trefoil Pulsano Gorge Calycotome infesta Spiny Broom widespread and common Ceratonia siliqua Carob Monte Saraceno Cercis siliquastrum Judas Tree Monte Sant'Angelo Coronilla scorpioides Annual Scorpion Vetch Pulsano Gorge Cytisus decumbens Prostrate Broom Pulsano Gorge Dorycnium hirsutum Dorycnium Pulsano Hedysarum coronarium Italian Sainfoin grassy road side verge, Bosco Quarto Hippocrepis comosa Horseshoe Vetch common in stony areas Hippocrepis emerus subsp. emeroides False Senna roadsides, Cyclamen stop Hymenocarpus circinatus Disk Trefoil Pulsano Monastery Lathyrus aphaca Yellow Vetchling Pulsano Monastery Lathyrus cicera a Vetchling widespread and common Lathyrus clymenum a "two-tone" pea grassy verges Lathyrus hybridus Hairy Yellow Vetch Bosco Quarto and Cyclamen stop Lathyrus ochrus Pulsano Monastery Lathyrus setifolius Red Grass Vetchling Bosco Quarto a "tufted" vetch - pink and Lathyrus venetus Pilgrim's Path purple leaves only, Monte Calve Lathvrus vernus Spring Pea Lotus corniculatus Bird's-foot Trefoil Pulsano Lotus creticus Southern Bird's-foot Trefoil Salt pans nr Zaponetta Lotus cytisoides a Trefoil rocks nr Peschici Lotus halophilus Sea Bird's-foot Trefoil Salt pans nr Zaponetta Lupinus micranthus Hairy Lupin Fly-tip stop Medicago arabica Spotted Medick widespread, grassy areas Medicago littoralis Shore Medick salt marsh stop Sea Medick Medicago marina Zaponetta

Quarry stop

coastal salt pans

Large Disk Medick

Toothed Medick

Scientific name Common name Location Small Mellilot Melilotus indicus Mullein stop Onobrychis aequidentata a Sainfoin - delicate purple flowers Monte Saraceno Onobrychis caput-galli Cock's-comb Sainfoin fairly common in stony areas Onobrychis crista-galli ?? Rock Sainfoin Onobrychis saxatilis Pulsano road - first stop Pisum sativum subsp. elatius Cultivated Pea roadsides, Bosco Quarto Robinia pseudacacia False Acacia roadsides a Scorpiurus possibly - Monte Sacro road Scorpiurus muricatus scattered sites Spartium junceum Spanish Broom Winged or Asparagus Pea Tetragonolobus purpureus Pulsano Monastery areas Trifolium campestre Hop Trefoil Pulsano monastery Trifolium dubium Lesser Trefoil Monte Sant'Angelo Trifolium hirtum Hairy Trefoil Monte Sant'Angelo Trifolium incarnatum Crimson Clover in tight bud only Trifolium medium Zigzag Clover Tulip stop Trifolium pratense Red Clover roadsides Trifolium repens White Clover Pilgrim's Path Trifolium resupinatum **Reversed Clover** Fly-tip stop Trifolium stellatum Star Clover Pulsano Trifolium subterraneum **Burrowing Clover** Monte Sant'Angelo Trifolium tomentosum Woolly Trefoil Bosco Quarto Vicia barbazitae small two-tone flowers Bosco Quarto first stop Vicia benghalensis Benghal Vetch Monte Sacro Vicia bithynica Bithynian Vetch Monte Sacro Vicia cracca **Tufted Vetch** Pulsano Vicia hirsuta Hairy Tare Bosco Quarto Vicia hybrida a Yellow Vetch start of Pilgrim's Path Vicia lutea Yellow Vetch grassy areas Black Vetch Vicia melanops Pilgrim's Path Vicia peregrina Pulsano road Common Vetch Pilgrim's Path Vicia sativa agg Vicia villosa Fodder Vetch Pulsano road Linaceae Flax Family Beautiful Flax Monte Calvo areas Linum austriacum (narbonense) Linum bienne Pale Flax scattered sites Linum catharticum Fairy (Purging) Flax Pulsano road open areas nr Bosco Quarto Linum perenne Perennial Flax Linum tenuifolium Monte Sacro Linum trigynum a yellow flax Fly-tip stop Malvaceae **Mallow Family** Lavatera arborea Tree Mallow Peschici Lavatera cretica Cretan Mallow Peschici Malva cretica Olive grove stop Malva neglecta **Dwarf Mallow** motorway stop Malva sylvestris Common Mallow very common on verges Tilia cordata Small-leaved Lime Foresta Umbra Moraceae **Mulberry Family** Ficus carica Fig common and widespread Oleaceae **Olive Family** Fraxinus ornus Flowering Ash very common and flowering prolifically Ligustrum vulgare Privet Pulsano, Monte Calvo Olea europaea Olive extensively cultivated

Cyclamen repandum

Scientific name	Common name	Location
Orobanchaceae	Broomrape Family	
Bellardia trixago	Bellardia	Monte Saraceno
Euphrasia agg.	Eyebright	Quarry stop
Orobanche amethystea	Amethyst Broomrape	grassy verge, not fully open
Orobanche caryophyllacea	Clove-scented Broomrape	Pulsano Gorge
Orobanche minor	Common Broomrape	mostly in tight bud
Orobanche purpurea	Yarrow Broomrape	Pulsano Gorge
Orobanche ramosa	Branched Broomrape	Monte Saraceno
Orobanche sanguinea		
Parentucella latifolia	Southern Red Bartsia	Monte Sacro
Parentucella viscosa	Yellow Bartsia	mostly in bud, fly-tip stop
Oxalidaceae	Wood-sorrel Family	
Oxalis corniculata	Procumbent Yellow Sorrel	Monte Sant'Angelo
Oxalis pes-caprae	Bermuda Buttercup	more common near coast, fields, verges
Paeoniaceae	Paeony Family	
Paeonia mascula	A Peony	shady bank nr Bosco Quarto
Papaveraceae	Poppy Family	
Chelidonium majus	Greater Celandine	roadside out of Peschici
Corydalis solida	Bird-in-a-bush	Bosco Quarto
Fumaria capreolata	Tall Ramping Fumitory	Peschici
Fumaria muralis	Common Ramping Fumitory	Peschici
Fumaria officinalis	Common Fumitory	possibly this species, Peschici
Papaver apulum	-	coastal salt pans
Papaver hybridum	Rough Poppy	Tulip stop
Papaver rhoeas	Common Poppy	common on agricultural land
Plantaginaceae	Plantain Family	
Antirrhinum siculum	Sicilian Snapdragon	Peschici
Cymbalaria muralis	Ivy-leaved Toadflax	rocks and walls, common
Linaria pelisseriana	Jersey Toadflax	fly-tip stop
Misopates orontium	Weasel Snout	roadside stops, scarce
Plantago arenaria	Branched Plantain	fly-tip stop
Plantago coronopus	Buck's-horn Plantain	very common
Plantago lagopus	Hare's-foot Plantain	Monte Saraceno
Plantago lanceolata	Ribwort Plantain	very common
Plantago maritima	Sea Plantain	Peschici
Plantago seraria	-	Monte Saraceno
Veronica cymbalaria	Cymbalaria-leaved Speedwell	Pilgrim's Path
Veronica hederifolia agg	Ivy-leaved Speedwell	Bosco Quarto
Veronica serpyllifolia	Thyme-leaved Speedwell	Pulsano Monastery
Plumbaginaceae	Thrift Family	
Limonium oleifolium	a Rock Sea-lavender	leaves only, Peschici
Polygalaceae	Milkwort Family	
Polygala nicaeensis	Nice Milkwort	Pulsano Gorge
Polygala vulgaris	Common Milkwort	common
Polygonaceae	Knotweed Family	
Polygonum maritimum	Sea Knotgrass	saltmarsh area
Rumex obtusifolius	Broad-leaved Dock	Tulip stop
Rumex pulcher	Fiddle Dock	Cyclamen stop
Primulaceae	Primrose Family	
Anagallis arvensis (Red & Blue forms)	Scarlet Pimpernel	roadsides
Cyclamen hederifolium	Ivy-leaved Sowbread	leaves only, Foresta Umbra

Foresta Umbra

Spring Cyclamen

Scientific name Common name Location

RanunculaceaeButtercup FamilyAnemone apenninaBlue AnemoneBosco QuartoAnemone hortensis-Pulsano area

Eranthis hyemalisWinter Aconiteleaves only, Tulip stopFicaria verna agg.Lesser Celandineleaves only, Pilgrim's Path

Nigella damascenaLove-in-a-mistPulsano areaRanunculus acrisMeadow ButtercupBosco QuartoRanunculus arvensisCorn ButtercupPulsano areaRanunculus bulbosusBulbous ButtercupTulip stop

Ranunculus millefoliatus - open sunny areas, Pulsano road

Ranunculus muricatusRough-fruited Buttercuppossibly - Tulip stopRanunculus repensCreeping ButtercupPilgrim's pathRanunculus sceleratusCelery-leaved Buttercupnr Zaponetta

ResedaceaeMignonette FamilyReseda albaWhite MignonettewidespreadReseda luteaWild MignonettewidespreadReseda luteolaWeldBosco QuartoReseda phyteumaCorn Mignonettenr Peschici

Reseda phyteumaCorn Mignonettenr PeschiciRhamnaceaeBuckthorn FamilyPalliurus spina-christiChrist's ThornMullein stop, and quarry

Rhamnus alaternus Mediterranean Buckthorn Pulsano Gorge

Rosaceae **Rose Family** Bosco Quarto Aremonia agrimonioides **Bastard Agrimony** Crataegus monogyna Hawthorn Pilgrim's Path Cydonia oblonga Quince Monte Calvo area Filipendula vulgaris Dropwort Pulsano road Wild Strawberry Pilgrim's Path Fragaria vesca Geum urbanum Wood Avens Bosco Quarto

Malus sylvestris Foresta Umbra Crab Apple Potentilla hirta Hairy Cinquefoil Quarry stop P. sterilis Barren Strawberry Bosco Quarto Prunus dulcis Almond Foresta Umbra Prunus spinosa Blackthorn Bosco Quarto Pyracantha coccinia Firethorn Peschici

Pyrus amygdaliformisAlmond-leaved PearMonte SacroPyrus communisPearBosco QuartoRosa sp.A RosePilgrim's PathRubus fruticosus aggBramblePilgrim's PathRubus sanctusa BrambleMonte Sacro

Sanguisorba (Poterium) minor
Salad Burnet
Pulsano road
Sorbus aucuparia
Rowan or Mountain Ash
Sorbus torminalis
Wild Service Tree
Monte Calvo area

Sorbus torminalisWild Service TreeMonte CalvoRubiaceaeBedstraw FamilyAsperula arvensisBlue WoodruffTulip stop

Asperula taurina Southern Woodruff possibly - not in flower - Foresta Umbra

Cruciata laevipesCrosswortroadsides, vergesGalium aparineCleaversroadsides, vergesGalium mollugoHedge Bedstrawnr PeschiciGalium odoratumWoodruffForesta UmbraGalium verumLadv's Bedstrawleaves only

Rubia peregrina Wild Madder road to Foresta Umbra

Sheradia arvensis Field Madder Bosco Quarto
Valantia muralis a Valantia Monte Saraceno

Arum italicum subsp. italicum

Scientific name	Common name	Location
Rutaceae	Rue Family	
Ruta chalepensis	Fringed Rue	leaves only
Santalaceae	Sandalwood Family	
Osyris alba	Osyris	Monte Saracenoe
Thesium sp.	a Bastard Toadflax	scattered sites, Pulsano, Monte Sacro
Sapindaceae	Maple Family	
Acer campestris	Field Maple	widespread
Acer platanoides	Norway Maple	Monte Sant'Angelo
Acer pseudoplatanus	Sycamore	Monte Sant'Angelo
Acer obtusatum	Bosnian Maple	Bosco Quarto
Acer opalus	Italian Maple	Bosco Quarto
Saxifragaceae	Saxifrage Family	
Saxifraga granulata	Meadow Saxifrage	widespread, Pulsano, Bosco Quarto
Saxifraga rotundifolia	Round-leaved Saxifrage	Monte Sant'Angelo
Saxifraga tridactylites	Rue-leaved Saxifrage	Pilgrim's Path
Scrophulariaceae	Figwort Family	3
Scrophularia peregrina	Italian (Nettle-leaved) Figwort	leaves and buds only
Scrophularia scopolii	a Figwort	Mullein stop
Verbascum longiflorum	a Mullein	roadsides
Verbascum phoeniceum	Purple Mullein	Bosco di Spina Pulci
Verbascum thapsus	Aaron's Rod	roadsides, common in places
Verbascum undulatum	a Mullein	possibly - a roadside plant
Solanaceae	Nightshade Family	possially a readerate plant
Hyoscyamus alba	White Henbane	leaves only on Monastery wall
Solanum sodomeum	Apple of Sodom	single shrub nr Peschici
Thymelaeaceae	Daphne Family	onigio oni az in i occinci
Daphne laureola	Spurge Laurel	Bosco Quarto and Foresta Umbra
Daphne sericea	opango zaano.	Cyclamen stop
Ulmaceae	Elm Family	o y ordanioni ordap
Ulmus agg.	An Elm	Monte Sant'Angelo
Urticaceae	Nettle Family	o.no Ganti angolo
Parientaria judaica	Pellitory of the Wall	widespread
Urtica dioica	Nettle	roadsides, verges
Urtica pilulifera	Roman Nettle	Monte Saraceno
Violaceae	Violet Family	Monto Garagono
Viola arvensis	Field Pansy	Tulip stop
Viola graeca	A Pansy (purple or cream)	Bosco Quarto
Viola riviniana	Common Dog Violet	Pulsano area
Vitaceae	Grape-vine Family	1 distributed
Vitis vinifera	Grape	extensively cultivated
Monocots	Monocotyledons	extensively editivated
Amaryllidaceae	Daffodil Family	
Allium neapolitanum	Naples Garlic	Pulsano gorge
Allium pendulinum	Pendulous Garlic	woods near Monte Calvo
Allium roseum	Rose Garlic	roadside nr Peschici
Allium subhirsutum	Hairy Garlic	Monte Calvo
Allium subvillosum	-	possibly this species - Monte Calvo
Allium triquetum	Three-cornered Leek	coastal salt pan areas
Allium ursinum	Ramsons	Foresta Umbra
Narcissus poeticus	Pheasant's-eye Daffodil	Bosco Quarto
Narcissus (tazetta)	i neasant s-eye Danoun	unknown species in Bosco Quarto
Araceae	Arum Family	ananown species in bosco Qualto
Arum italiaum auban italiaum	Lorgo Cuokoo Dint	Monto Caracena

Monte Saraceno

Large Cuckoo Pint

Ophrys bertolonii

Scientific name	e Common name Location				
Arum maculatum	Cuckoo Pint	Bosco Quarto			
Asparagaceae	Asparagus Family				
Agave americana	Century Plant	widespread in towns and roadsides			
Asparagus acutifolius	Spiny Asparagus	widespread			
Leopoldia (Muscari) comosa	Tassel Hyacinth	Monte Saraceno			
Muscari neglectum	Dark Grape Hyacinth	very common on open hillsides			
Ornithogalum angustifolium	Common Star-of-Bethlehem	Pulsano Gorge			
Ornithogalum montanum	A Star-of-Bethlehem	Pulsano Gorge			
Ornithogalum pyrenaicum	Bath Asparagus	Bosco di Spina Pulci			
Polygonatum multiflorum	Solomon's Seal	Bosco Quarto			
Ruscus aculeatus	Butcher's Broom	Bosco Quarto			
Urginea maritima	Sea Squill	leaves only - widespread			
Cyperaceae	Sedge Family				
Carex caryophyllea	Spring Sedge	Pulsano road			
Carex sylvatica	Wood Sedge	Bosco Quarto, Foresta Umbra			
Dioscoreaceae	Yam Family				
Dioscorea (Tamus) communis	Black Bryony	Pilgrim's Path			
Iridaceae	Iris Family				
Crocus sp.	a Crocus	Bosco Quarto			
Gladiolus italicus	Field Gladiolus	leaves only			
Hermodactylus tuberosus	Widow or Snake's-head Iris	Pilgrim's Path			
Iris foetidissima	Stinking Iris	Cyclamen stop			
Iris lutescens*	-	Bosco Quarto			
Iris pseudopumila*	-	Bosco Quarto			
Romulea bulbocodium		Bosco Quarto			
Juncaceae	Rush Family				
Luzula campestris	Field Wood-rush	Foresta Umbra			
Luzula forsteri	Southern Wood-rush	Foresta Umbra			
Liliaceae	Lily Family				
Tulipa sylvestris	Wild Tulip	cultivated fields near Monte Sant'Angelo			
Gagea (arvensis)	a Yellow Star-of-Bethlehem	Bosco Quarto			
Orchidaceae		Orchid Family			

Note: The Orchidaceae are an evolving group, and subject to debate between 'splitters' (eg. Delforge) and 'lumpers' (eg

Scientific name	Common name	Location
Anacamptis morio subsp. morio Anacamptis morio subsp. picta Anacamptis papilionacea Anacamptis pyramidalis Cephalanthera damasonium Dactylorhiza saccifera Dactylorhiza romana Dactylorhiza sambucina	Green-winged Orchid a Green-winged Orchid Pink Butterfly Orchid Pyramidal Orchid White Helleborine Wedge-lipped Orchid Roman Orchid Elderflower Orchid	Pulsano road, common road to Foresta Umbra Pulsano road Bosco di Spina Pulci roadside nr Peschici woods nr Monte Calvo woods nr Monte Calvo woods nr Monte Calvo, scarce
Himantoglossum hircinum Himantoglossum robertianum Neotinea (Orchis) lactea Neotinea maculata Neotinea (Orchis) tridentata Neotinea (Orchis) ustulata	Lizard Orchid Giant Orchid Milky Orchid Dense-flowered Orchid Toothed Orchid Burnt Orchid	leaves and buds only on bank nr saltmarshes, nr Bosco Quarto Pulsano road only in tight bud nr Monte Sant'Angelo buds only, Monte Sacro nr Bosco Quarto
Neottia nidus-avis Ophrys apifera Ophrys bertoloniformis*	Bird's Nest Orchid Bee Orchid -	dried up seed heads from last year a few possible specimens at Fly-tip stop roadside nr Monte Sacro

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roadside nr Monte Sacro

Bertoloni's Bee Orchid

Scientific name	Common name	Location
Ophrys argolica subsp. biscutella	Spectacled Ophrys	Bosco Quarto
Ophrys bombyliflora	Bumblebee Ophrys	Pulsano Gorge
Ophrys fuciflora	Late Spider Orchid	Pulsano Gorge
Ophrys fuciflora subsp. apulica*	Apulian Ophrys	Fly-tip stop
Ophrys fuciflora subsp. parvimaculata	Small-patterned Orchid	Quarry stop
Ophrys fusca	Sombre Bee Orchid	dried up and gone over
Ophrys lutea subsp. galilea (formerly sicula)	-	scattered sites, Pilgrim's path
Ophrys lutea subsp. lutea	Yellow Ophrys	Pilgrim's Path, Monte Sacro
Ophrys lutea subsp. lutea (formerly		,
phryganae)	-	this species now not recognised
Ophrys lutea subsp. melena	a Yellow Ophrys	Monte Saraceno
Ophrys oestrifera subsp. monti-gargani*		nr Peschici - very few plants
Ophrys promontorii*	-	Pulsano road, Monte Sacro
Ophrys sphegodes subsp. passionis	Gargano Ophrys	widespread and quite common
(garganica) Ophrys sphegodes subsp. sipontensis*	-	Pulsano Monastery
Ophrys sphegodes	Early Spider Orchid	•
O. sphegodes subsp. atrata (O. incubacea)	Dark Ophrys	scattered site
Ophrys tenthredinifera		Mullein stop
Orchis anthropophora	Sawfly Ophrys Man Orchid	Pulsano Monastery
Orchis italica	Naked Man Orchid	quite common, many sites
		Pulsano road, Bosco Quarto
Orchis pauciflora	Sparse Flowered Orchid	Monte Sacro, Monte Calvo
Orchis provincialis	Provence Orchid	Quarry stop
Orchis purpurea	Lady Orchid	Olive grove nr Peschici
Orchis quadripunctata	Four-spotted Orchid	Monte Sacro
Platanthera chlorantha Serapias lingua	Greater Butterfly Orchid Tongue Orchid	leaves and buds only common on Monte Sacro but only just opening up
Serapias orientalis	-	a few plants at Monte Saraceno
Serapias parviflora	Small-flowered Tongue Orchid	Fly-tip stop
Serapias vomeracea	Plough-share Tongue Orchid	Fly-tip stop
Hybrids (a selection)		
Orchis x bivonae (O.anthropophora x	_	
O.italica)		possible specimen on Pulsano road
Anacamptis morio x A. papilionacea	-	Pulsano road
Orchis pauciflora x Orchis quadripunctata	-	Two specimens, Monte Sacro
Poaceae	Grass Family	
Aegilops geniculata	Aegilops	olive grove
Anisantha sterilis	Barren Brome	roadsides
Arundo donax	Giant Reed	salt marsh near Zaponetta
Anthoxanthum odoratum	Sweet Vernal Grass	Pulsano Monastery
Avena sp.	an Oat	coastal salt pans
Brachypodium sylvaticum	False Brome	roadsides, Pilgrim's Path
Briza maxima	Large Quaking Grass	Pulsano Gorge
Briza media	Quaking Grass	Pulsano Gorge ?
Bromus hordeaceus	Soft-brome	Pulsano Gorge
Hordeum murinum	Wall Barley	salt pan area
Hordeum sp.	a Barley	roadsides
Lagurus ovatus	Hare's-foot Grass	salt pan area
Melica uniflora	Wood Melick	Bosco Quarto
Phragmites australis	Common Reed	coastal marshes
Stipa pennata	a Feather Grass	roadsides near Mattinata

Fomes spp

Scientific name Common name Location Posidoniaceae **Neptune Grass Family** Posidonia oceanica Neptune Grass "sea balls" from this species at coastal site Smilaceae **Smilax Family** Smilax aspera Common Smilax Mullein stop Xanthorrhoeaceae **Asphodel Family** Asphodeline lutea Yellow Asphodel Pulsano Monastery, Monte Sacro Asphodelus aestivus Common Asphodel very common Asphodelus fistulosus Hollow-leaved Asphodel Pulsano Monastery **LICHENS** Lobaria pulmonaria Tree Lungwort Foresta Umbra **FUNGI** Morchella esculenta Morel Bosco Quarto Coprinus (lagopus) Ink Cap sp Bosco Quarto Stereum hirsutum a bracket fungus Foresta Umbra

Foresta Umbra

Bracket fungi

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

			April							
	Common name	Scientific name	9	10	11	12	13	14	15	16
1	Mallard	Anas platyrhyncos	4							
2	Greater Flamingo	Phoenicopterus roseus	50							
3	White Stork	Ciconia ciconia	2							
4	Grey Heron	Ardea cinerea	✓							
5	Little Egret	Egretta garzetta	✓						✓	
6	Pygmy Cormorant	Microcarbo pygmaeus	7							
7	Great Cormorant	Phalacrocorax carbo	1							
8	Eurasian Sparrowhawk	Accipiter nisus				✓				
9	Montagu's Harrier	Circus pygargus			✓	1m				
10	Eurasian Coot	Fulica atra	✓							
11	Black-winged Stilt	Himantopus himantopus	✓							
12	Kentish Plover	Chasradrius alexandrinus	2							
13	Common Sandpiper	Actitis hypoleucos	3							
14	Sanderling	Calidris alba	3							
15	Slender-billed Gull	Chroicocephalus genei	6							
16	Black-headed Gull	Chroicocephalus ridibundus	✓							
17	Yellow-legged Gull	Larus michahellis	✓							
18	Rock Dove /Feral Pigeon	Columba livia	✓							
19	Common Wood Pigeon	Columba palumbus	✓							
20	Eurasian Collared Dove	Streptopelia decaocto	✓							
21	Common Cuckoo	Cuculus canorus	✓	✓				✓	✓	
22	Eurasian Scops Owl	Otus scops					✓			
23	Tawny Owl	Strix aluco						✓		
24	Alpine Swift	Tachymarptis melba						✓	✓	
25	Common Swift	Apus apus	✓		✓	✓		✓	✓	
26	Pallid Swift	Apus pallidus						?		
27	Great Spotted Woodpecker	Dendrocopos major			✓					
28	European Green Woodpecker	Picus viridis			✓					
29	Lesser Kestrel	Falco naumanni	✓	1						
30	Common Kestrel	Falco tinnunculus	✓		1	1				
31	Red-footed Falcon	Falco verspetinus			✓					

2

3

4

Southern Festoon

Large White

Small White

			April							
	Common name	Scientific name	9	10	11	12	13	14	15	16
32	Eurasian Jay	Garrulus glandarius			1			1		
33	Common Magpie	Pica pica	✓		✓					
34	Western Jackdaw	Corvus monedula	✓	✓	✓	✓	✓	✓	✓	✓
35	Hooded Crow	Corvus cornix	✓		✓	✓	✓	✓		
36	Northern Raven	Corvus corax	✓	✓	✓	✓	✓			
37	Eurasian Blue Tit	Cyanistes caeruleus			✓	✓	✓			
38	Great Tit	Parus major		✓	✓					
39	Barn Swallow	Hirundo rustica			✓					
40	Common House Martin	Delichon urbicum	✓							
41	Cetti's Warbler	Cettia cetti							3	
42	Willow Warbler	Phylloscopus trochilus			✓	✓				
43	Common Chiffchaff	Phylloscopus collybita			✓			✓		
44	Western Bonelli's Warbler	Phylloscopus bonelli				✓				
45	Zitting Cisticola	Cisticola juncidis	✓							
46	Eurasian Blackcap	Sylvia atricapilla			✓	✓	✓	√		
47	Common Whitethroat	Sylvia communis					✓			
48	Subalpine Warbler	Sylvia cantillans		✓		2				
49	Eurasian Wren	Troglodytes troglodytes		✓	✓	_				
50	Eurasian Nuthatch	Sitta europaea		✓	✓	1		√		
51	Common Starling	Sturnus vulgaris	-		✓					
52	Common Blackbird	Turdus merula		✓	✓					
53	Song Thrush	Turdus millomelos			✓		✓			
54	European Robin	Erithacus rubecula			✓					
55	Common Nightingale	Luscinia megarhynchos			✓					
56	European Stonechat	Saxicola torquata		✓	•					
57	Italian Sparrow	Passer italiae	√	· ·					✓	
58	Dunnock	Prunella modularis			✓					
59	Common Chaffinch	Fringilla coelebs		✓	· ✓	✓	✓	✓	✓	
60	European Goldfinch	Carduelis carduelis	✓	.	•	✓	•	•	· ·	
61	European Serin	Serinus serinus	→	✓		,			•	
62		Emberiza calandra			√					
63	Corn Bunting Cirl Bunting	Emberiza cirlus			✓					
	ammals	Emberiza cirius								
1	Red Fox	Vulpes vulpes			✓					
	1									
	ptiles & Amphibians (T							-		
1	Common Toad	Bufo bufo						Т		
2	Moorish Gecko	Tarentola mauritanica				✓				
3	Common Wall Lizard	Podarcis muralis				✓				
4	Slow Worm	Anguis fragilis			√					
5	European Pond Terrapin	Emys orbicularis						✓		
Fis		Lauriagus idus						✓		
1	Golden Orfe	Leuciscus idus								
	tterflies	Donillo mashasi								
1	Swallowtail	Papilio machaon		V	V	V	V			

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✓

✓

✓

Zerynthia polyxena

Pieris brassicae

Pieris rapae

			April							
	Common name	Scientific name	9	10	11	12	13	14	15	16
5	Green-veined White	Pieris napi								
6	Eastern Bath White	Pontia edusa								
7	Eastern Dappled White	Euchloe ausonia								
8	Orange Tip	Anthocharis cardamines		✓	✓	✓	✓	✓	✓	
9	Clouded Yellow	Colias crocea		✓						
10	Berger's Clouded Yellow	Colias alfacariensis								
11	Brimstone	Gonepteryx rhamni		✓	✓	✓	✓	✓	✓	
12	Cleopatra	Gonepteryx cleopatra								
13	Wood White	Leptidea sinapis								
14	Green Hairstreak	Callophrys rubi		✓			✓	✓	✓	
15	Small Copper	Lycaena phlaeas		✓			✓			
16	Little Blue	Cupido minimus		✓			✓			
17	Holly Blue	Celastrina argiolus		✓	✓					
18	Green-underside Blue	Glaucopsyche alexis			✓	✓	✓	✓	✓	
19	Brown Argus	Aricia agestis						✓		
20	Common Blue	Polyommatus icarus		✓					✓	
21	Large Tortoiseshell	Nymphalis polychloros			✓	✓				
22	Small Tortoiseshell	Aglais urticae			✓					
23	Peacock Butterfly	Inachis io				✓				
24	Painted Lady	Vanessa cardui		✓		✓	✓			
25	Wall Brown	Lasiommata megera		✓		✓	✓			
26	Small Heath	Coenonympha pamphilus		✓					✓	
27	Grizzled Skipper	Pyrgus malvae					✓			
28	Red-underwing Skipper	Spialia sertorius				?				

Moths (L = larvae)

1	Hummingbird Hawk-moth	Macroglossum stellatum				✓	✓	
2	Forester Moth	Adscita statices	✓					
3	A Lackey moth sp	Malacosoma franconica	L	L			L	
4	The Mint Moth	Pyrausta aurata					✓	
5	Dewick's Plusia	Macdounnoughia confusa				✓		

Other Invertebrates:

1	Egyptian Grasshopper	Anacridium aegyptium					✓	
2	Field Cricket	Gryllus campestris	✓			✓		
3	A red-striped Shield Bug	Graphosoma lineata (italica)					✓	
4	an Ascalaphid	Libelloides coccajus					✓	
5	Bee Fly	Bombylius major		✓	✓			
6	Tawny Mining Bee	Andrena fulva			?			
7	Carpenter Bee	Xylocopa violacea			✓			
8	Garden Chafer	Phyllopertha horticola				✓		
9	Yellow-haired Barbary Bug	Tropinota squalida	✓				✓	
10	a Dung Beetle	Scarabaeus sp	✓					
11	(Knotgrass) Leaf Beetle	Chrysolina (polita)	?					
12	Green Tiger Beetle	Cicindela campestris			✓			
13	Giant Centipede	Scolopendra cingulatus			✓			
14	7-spot Ladybird			✓				
15	Scorpion	Euscopius flavicaudis		?	?			