



CV Federico Selvi (synthtetic)

25.10.1966 Born in Scherzingen, Switzerland

Scientific Career

1985 Degree of Scientific Maturity (HighSchool)
1990 Master degree in Forest Sciences
1995 PhD title in Plant Systematics and Ecology
1996 Post-Doctorate position
1998 Permanent position as Research Scientist, Dept. Plant Biology, afterwards Dept. of Agriculture, Food, Environment and Forestry.
2014 Associate Professor
2018-present Full Professor.

Appointments in Herbarium collections and activities

1. Curator of Erbario Agrario-Forestale dell'Università di Firenze (FIAF)
http://sweetgum.nybg.org/science/ih/herbarium_details.php?irn=126441
2. Author and Curator of the collection "*Boraginaceae in Itinera Lectae*" (FIAF-HB)
3. Author and Curator of the collection "*Plantae Etruriae Meridionalis*" (FIAF-Selvi).
4. Staff member and Research Associate of the Scientific Staff of the Museo di Storia Naturale, sez. Botanica "Filippo Parlatore" (FI);
http://sweetgum.nybg.org/science/ih/person_list.php?NamOrganisationAcronym=FI
5. Member of the Steering Committee of Tropical Herbarium "Centro Studi Erbario Tropicale" (CSET)
<https://www.bio.unifi.it/vp-130-cset-centro-studi-erbario-tropicale.html>

Teaching

University of Firenze, School of Forest and Environmental Sciences: Plant Biology, Systematic Botany (Bachelor Degree)
University of Firenze, School of Forest and Environmental Sciences Forest Plant Ecology and Diversity (Master Degree)

Main Scientific Interests

- Systematics and diversity of families Boraginaceae and Brassicaceae
- Biodiversity, ecology and evolution of flora and vegetation of ultramafic soils, with special regard to metal hyperaccumulators
- Floristics, Phytogeography and Plant Conservation of the Mediterranean basin.
- Plant diversity and ecology of forest communities

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Author of 280 scientific publications, of which 144 on journals with IF (Scopus); total citations 2294 by 1495 documents (H-index: 27; from Scopus, October 2019).

Member of the Editorial Board of two International Journals (*Plant Biosystems*, *Plant Ecology and Evolution*).

Some selected publications

- Selvi F., Carrari E., Colzi I., Coppi A., Gonnelli C. (2017). Responses of serpentine plants to pine invasion: Vegetation diversity and nickel accumulation in plants with contrasting adaptive strategies. *Science of the Total Environment* 595: 72-80.
- Cecchi L, Gabbriellini R, Arnetoli M, Gonnelli C, Hasko A, Selvi F. 2010. Evolutionary lineages of nickel hyperaccumulation and systematics in European Alyssae (Brassicaceae): evidence from nrDNA sequence data. *Annals of Botany* 106: 751-767. doi: 10.1093/aob/mcq162
- Cecchi L, Colzi I, Coppi A, Gonnelli C, Selvi F. 2013. Diversity and biogeography of Ni-hyperaccumulators of Alyssum section Odontarrhena (Brassicaceae) in the Central Western Mediterranean: evidence from karyology, morphology and DNA sequence data. *Botanical Journal of the Linnean Society* 173: 269-289.
- Cecchi L, Bettarini I, Colzi I, Coppi A, Echevarria G, Pazzagli L, Bani A, Gonnelli C, Selvi F. 2018. The genus Odontarrhena (Brassicaceae) in Albania: Taxonomy and Nickel accumulation in a critical group of metallophytes from a major serpentine hot-spot. *Phytotaxa* 351: 1-28.
- Selvi F., Cecchi L., Coppi A. 2009. – Phylogeny, karyotype evolution and taxonomy of *Cerintho* L. (Boraginaceae). *Taxon* 58: 1307-1325.
- Selvi F., Coppi A., Cecchi L. 2011. – High epizoochorous specialization and low DNA sequence variation in Mediterranean Cynoglossum (Boraginaceae): Evidence from fruit traits and ITS region. *Taxon* 60: 969-985
- Cecchi L., Coppi A., Hilger H.H., Selvi F. 2014. – Non-monophyly of Buglossoides (Boraginaceae): phylogenetic and morphological evidence for the expansion of *Glandora* and reappraisal of *Aegonychon*. *Taxon* 63: 1065-1073
- Coppi A., Mengoni A., Selvi F. 2008. – AFLP fingerprinting of taxa of *Anchusa* endemic to the Corso-Sardinian system: genetic diversity and differentiation of an insular endemic group threatened with extinction. *Biological Conservation* 141 (8): 2000-2011
- Selvi F. 2007. Diversity, geographic variation and conservation of the serpentine flora of Tuscany (Italy). *Biodiversity and Conservation* 16: 1423–1439.
- Wójcik M, Gonnelli C, Selvi F, Dresler S, Rostański A, Vangronsveld J. 2017. Metallophytes of Serpentine and Calamine Soils – Their Unique Ecophysiology and Potential for Phytoremediation. In: Cuypers A, Vangronsveld J, eds. Phytoremediation. *Advances in Botanical Research*, Academic Press, Elsevier: 1–42.
- Kidd PS, Bani A, Benizri E, Gonnelli C, Hazotte C, Kisser J, Konstantinou M, Kuppens T, Kyrkas D, Laubie B., Selvi F. et al. 2018. Developing Sustainable Agromining Systems in Agricultural Ultramafic Soils for Nickel Recovery. *Frontiers in Environmental Science*. doi: 10.3389/fenvs.2018.00044
- Bettarini I, Colzi I, Coppi A, Cecchi L, Falsini S, Echevarria G, Pazzagli L, Selvi F., Gonnelli C. 2019. Unravelling soil and plant metal relationships in Albanian Ni-hyperaccumulators of genus *Odontarrhena* (syn. Alyssum sect. Odontarrhena, Brassicaceae). *Plant and Soil* 440: 135-149.
- Cecchi L., Selvi F. 2009. Phylogenetic relationships of the monotypic genera Halacsya and Paramoltkia and the origins of serpentine adaptation in circum-mediterranean Lithospermeae (Boraginaceae): insights from ITS and matK DNA sequences. *Taxon* 58: 700-714
- Coppi A., Mengoni A., Selvi F. 2008. AFLP fingerprinting of taxa of *Anchusa* endemic to the Corso-Sardinian system: genetic diversity and differentiation of an insular endemic group threatened with extinction. *Biological Conservation* 141: 2000-2011
- Bacchetta G., Coppi A., Pontecorvo C., Selvi F. 2008. Systematics, phylogenetic relationships and conservation of the taxa of *Anchusa* (Boraginaceae) endemic to Sardinia (Italy). *Systematics and Biodiversity*, 6: 161-174.
- Selvi F., Carrari E., Coppi A. 2016. Impact of pine invasion on the taxonomic and phylogenetic diversity of a relict forest ecosystem. *Forest Ecology and Management* 367: 1-11

Firenze, 26/11/2019

Federico Selvi