

BIOGRAPHICAL SKETCH

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NAME: Lorenzo Peruzzi

eRA COMMONS USER NAME: <https://orcid.org/0000-0001-9008-273X>

POSITION TITLE: Full professor in Systematic Botany. Dep. Biology, Univ. Pisa

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Univ. Calabria IT	PhD in Plant Biology	2004	PhD, Plant Biology
Univ. Pisa IT	MSc in Natural Sciences	2000	MSc, Natural Sciences

A. Personal Statement

My research interest lies in taxonomic and systematic studies of vascular plants in the Mediterranean and European flora. I am also interested in cytotaxonomy, plant ecology and conservation, and online databasing of karyological, floristic and taxonomic data (Chrobase and Wikiplantbase projects, Portal to the Flora of Italy). I am an active member of the following scientific societies: Accademia dei Georgofili (since 2025), Systematics Association (since 2024), Italian Society of Biogeography (since 2011), International Association of Plant Taxonomists (since 2007), Organisation for the Phyto-Taxonomic Investigation of Mediterranean Area (since 2004), Italian Botanical Society (since 1999). I also teach at the University of Pisa courses relevant to plant systematics: Systematic botany (since 2019, Dep. Pharmacy), Trees and shrubs of the Italian flora (since 2016, Dep. Biology), General and systematic botany (since 2015, Dep. Biology), Plant diversity and evolution (since 2009, Dep. Biology).

B. Positions, Scientific Appointments, and Honors*Positions and institutional responsibilities*

2023–President of the University Museum System (SMA) of Pisa

The SMA collates all the Museums of the University, coordinates and manages the conservation and increase of their collection, dissemination and public engagement.

2017–2023: President of BSc course in Natural and Environmental Sciences Univ. of Pisa

2020–Full professor in systematic Botany. Dep. Biology, Univ. Pisa

2016–Director of the Botanic Garden and Museum, Univ. of Pisa

It is worldwide known institution, devoted to research and education in Botany. It is the most ancient academic botanic garden, founded in 1543.

2015–2020: Associate professor in systematic Botany. Dep. Biology, Univ. Pisa

2006–2014: Assistant professor in systematic Botany. Dep. Biology, Univ. Pisa

2004–2006: Postdoc in systematic Botany. Dep. Ecology, Univ. Calabria

Scientific appointments

2025–Evaluator for the OPUS-28 funding scheme, National Science Centre, Poland

2025–Advisor for a promotion at the University of West Indies, Trinidad and Tobago

2024–Associate Editor and Nomenclature Consultant of Plant Biosystems

2023–Evaluator for the NSERC Discovery Grants program, Government of Canada

2021–Subject Editor (Plant Science) of Biology-Basel

2020–Top Italian Scientist in the field of Natural and Environmental Sciences

2019–Top 2% scientist at the global level <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>

2016–Editor-in-Chief of Italian Botanist
2016–Evaluator for the Czech Science Foundation
2015–Member of the Group of Experts for VQR (Evaluation of Quality of Research), ANVUR (National Agency for the Evaluation of University and Research)
2014–2020: Elected Secretary in the Directive Council of the Italian Botanical Society
2014–2020: Elected Coordinator of the Group for Floristics, Systematics and Evolution of the Italian Botanical Society
2012–Subject Editor of Caryologia, Comparative Cytogenetics, Phytokeys, Plant Biosystems, Phytotaxa
2011–2022: Elected Member of the Directive Council of the Italian Society of Biogeography
2004–Reviewer for >40 leading journals, including: Amer. J. Bot., Ann. Bot., Biodiv. Cons., Bot. J. Linn. Soc., Front. Ecol. Evol., Front. Plant Sci., Global Ecol. Biogeogr., J. Biogeogr., J. Theor. Biol., Mol. Biol. Evol., Mol. Ecol., Mol. Phylog. Evol., Nature Comm., New Phytol., Preslia, Sci. Rep., Taxon

Honors

2025–Elected member of Accademia dei Georgofili
The Academy is a renowned educational institution in Florence IT, established in 1753, promoting the study of agronomy, economy, geography, and environment.
2022–Elected President of the Italian Society of Biogeography
2019: Supervisor of the PhD Thesis by Francesco Roma-Marzio, awarded by the Italian Botanical Society as best PhD Thesis in 2019
2015: Supervisor of the PhD Thesis by Angelino Carta, awarded by the Italian Botanical Society as best PhD Thesis in 2015

C. Contributions to Science

369/231 papers
7571/4991 citations
H-index 38/32
(Scopus/Clarivate)

I have been coordinating since 2010 a project to update the checklist of the vascular flora of Italy, with colleagues from Univ. Camerino and Natural History Museum of Milano. This led to the publication of two monographs about the taxa described from Italy (Phytotaxa 196/1 2015, 410/1 2019) and of the checklists of the native (Plant Biosyst. 152/2) and alien (Plant Biosyst. 152/3) flora in 2018, updated in 2024 (Plant Biosyst. 158/2). I also collaborated in the publication of the Portal to the flora of Italy, and I am coordinating and actively editing a floristic (<https://bot.biologia.unipi.it/wpb/italia>) and a karyological (<https://bot.biologia.unipi.it/chrobase/>) database in Pisa. More recently, I collaborated with the initiative Euro+Med Plantbase and joined to the World Flora Online consortium. Given all these experiences, I was invited in 2019 in Bern to have a talk in Bern in the symposium “Botanical taxonomy and checklists in the era of digital observation data acquisition” and in 2024 to have the talk “Assessing local and national floristic diversity through the Portal to the Flora of Italy” at the XX IBC in Madrid. The project PLAN.T.S. 2.0 was purely devoted to fundamental research in plant systematics, and represented a cornerstone in my academic career. The project allowed me to push forward the frontiers concerning integrative taxonomy in plants and the knowledge on taxonomically critical groups of the European flora. Thanks to this project, I was able to grow a brilliant group of young taxonomists, who helped me in making high-level collaborative research, and in developing innovative morphometric methods. I was invited in 2021 in Chania to have the talk “The importance of a collaborative and integrated approach to taxonomic problems for the future of systematic botany” at the 3rd Mediterranean Plant Conservation Week, and in 2022 to have the talk “From nomenclature to population genomics: an ongoing integrated taxonomic study of the *Dianthus virgineus* group in the central Mediterranean area” at the Caryophyllales Virtual symposium. Then, in 2022/2023 I edited the special issue “Advances in plant taxonomy and systematics” in Biology and in 2024 I organized the double symposium “Integrative taxonomy of Mediterranean plants” at the XX IBC.

Major international collaborations

Frank Blattner - *Crocus* taxonomy. Leibniz Institute for Plant Crops Genetics D
Nico Cellinese -*Campanula* taxonomy. Museum of Natural History, Univ. Florida USA
Charlie Jarvis - Linnaean names. Natural History Museum London UK
Vitor F.O. Miranda - *Utricularia* taxonomy. São Paulo State Univ. BR
Angela Peterson - *Gagea* taxonomy. Martin-Luther Univ. Wittenberg-Halle D

Selected publications as last author

- Franzoni & al. A cytosystematic study of the *Dianthus virgineus* complex (Caryophyllaceae) in the Central Mediterranean. J. Syst. Evol. 62: 589–602, 2024 ISSN:1759-6831
- Franzoni & al. Different species or altitudinal morphotypes? Testing the taxonomic value of *Dianthus brachycalyx* (Caryophyllaceae). Taxon 73: 1405-1418, 2024 ISSN:1996-8175
- Gargano & al. Phenotypic correlates of genetic divergence suggest at least three species in the complex of *Dianthus virgineus* L. (Caryophyllaceae). Taxon 72: 1019–1033, 2023 ISSN:1996-8175
- Giacò & al. An integrative taxonomic study of *Santolina* (Asteraceae) from southern France and north-eastern Spain reveals new taxa endemic to France. J. Syst. Evol. 61: 827–842, 2023 ISSN:1759-6831
- Tiburtini & al. Integrative taxonomy of *Armeria* taxa (Plumbaginaceae) endemic to Sardinia and Corsica. Plants-Basel 12: 2229, 2023 ISSN 2223-7747
- Liu & al. Different chromosome numbers, but slight morphological differentiation and genetic admixture among populations of *Pulmonaria hirta* complex (Boraginaceae). Taxon 71:1025–1043, 2022 ISSN:1996-8175
- Tiburtini & al. Integrative taxonomy of *Armeria arenaria* (Plumbaginaceae), with a special focus on the putative subspecies endemic to the Apennines. Biology-Basel 11:1060, 2022 ISSN 2079-7737
- Carta & al. A deep dive into the ancestral chromosome number and genome size of flowering plants. New Phytol. 228:1097–1106, 2020 ISSN:1469-8137
- Roma-Marzio & al. Taxonomy of prickly juniper (*Juniperus oxycedrus* group): a crucial contribution at the meeting point of two cryptospecies. Phytochemistry 141:48–60, 2017 ISSN: 1873-3700
- Carta & Peruzzi Testing the large genome constraint hypothesis: plant traits, habitat and climate seasonality in Liliaceae. New Phytol. 210:709–716, 2016 ISSN:1469-8137

Invited lectures at international congresses

- 7/2024–XX International Botanical Congress (IBC), Madrid ES
- 5/2024–The biocultural relevance of a Botanical Museum: a case study from Pisa at the congress Botanical Gardens as Custodians of Biocultural Diversity, UNESCO Regional Office for Egypt and Sudan, Il Cairo, EG
- 9/2023–Digitization of historical herbaria. A case study from the Herbarium of Michele Guadagno at Pisa (PI) at the XVII OPTIMA Meeting, Erice IT
- 2/2022–Caryophyllales Virtual Symposium online
- 9/2021–3rd Mediterranean Plant Conservation Week, Chania GR
- 11/2019–Info flora, Bern, CH
- 10/2019–Interdisciplinary studies in plant conservation: lessons from some Italian case studies at the XVI OPTIMA Meeting, Athens, GR
- 6/2017–The role of chemosystematics in biodiversity studies at the I International Congress on Edible, Medicinal and Aromatic Plants, Pisa IT
- 9/2016–Species: easy to create, difficult to destroy at the Croatian Botanical Symposium, Primosten HR
- 06/2016–The Wikiplantbase project: the role of amateur botanists in building up large online floristic databases at the XV OPTIMA Meeting, Montpellier, F
- 12/2015–Expert in Mediterranean monocot taxonomy at the IUCN Monocotyledon plants assessment workshop, Montpellier F

Research Grants

- 2024–Responsible of WP1 of the project EMBRACE, coordinated by the Migliarino-San Rossore-Massaciuccoli Regional Park, funded on a competitive cascade call by the National Biodiversity Future Center - NBFC (budget of WP1 EUR 54,206.25)
- 2024–PI of the project 3P_earthBIODIV, funded on a competitive cascade call by the spoke 3 (University of Siena) of the NBFC (budget EUR 348,970)
- 2024–Responsible of a research unit of the Proof of Concept project IDEM FLOS, coordinated by the University of Trieste, funded on a competitive cascade call by the spoke 5 (University of Milano-Bicocca) of the NBFC (budget of the research unit EUR 53,875)
- 2022–PI of the 4-years project “Idea progettuale per un parco costiero costituito da flora autoctona”, funded by the municipality of Forte dei Marmi (EUR 38,000)
- 2021–PI of the 3-years project “Monitoraggio di habitat e specie botaniche”, funded by the Migliarino-San Rossore-Massaciuccoli Regional Park (EUR 30,000)

2020–PI of the 3-years Project of Relevant National Interest (PRIN) 2017JW4HZK PLAN.T.S. 2.0 (Total budget EUR 772,137), funded based on peer review by the Ministry of Education, Universities and Research

2018–PI of the 3-years project “Digitalizzazione dell’Erbario dell’Università di Pisa” (EUR 60,000), funded by Fondazione Pisa

2019–PI of the 2-years project “Monitoraggio di habitat e specie botaniche”, funded by the Migliarino-San Rossore-Massaciuccoli Regional Park (EUR 30,000)

2018–PI of the Progetto di Ricerca di Ateneo PRA_2018_15 (EUR 35,900), funded based on peer review by the University of Pisa

2017–PI the project “Coltivando la cultura: azioni polivalenti di valorizzazione, conoscenza e fruizione dell’Orto e Museo Botanico dell’Università di Pisa per il pubblico degli ‘under 35’”, Botanic Garden and Museum of the University of Pisa (EUR 40,000.00), funded based on peer review by Tuscany Region

2015–PI of the Progetto di Ricerca di Ateneo PRA_2016_1 (EUR 53,618.98), funded based on peer review by the University of Pisa

2014–PI for the activity “Impianto e monitoraggio di popolamenti sperimentali di *Hypericum elodes* e *Symphytum tanaicense* nella tenuta di San Rossore”, funded by Parco Naturale Regionale di Migliarino-San Rossore-Massaciuccoli, within the EU IT-FR Marittimo project “Zoumate” (EUR 25,000)

Organisation of international scientific meetings

7/2024–double symposium within the XX International Botanical Congress. Madrid ES

9/2023–double symposium Biosystematics in the Mediterranean area within the XVII OPTIMA Meeting. Erice, Trapani IT

9/2023–IX International Plant Science Conference (IPSC). Pisa IT, >300 attendees

10/2019–symposium Plant diversity and evolution in polyploid, dysploid and hybrid complexes of the Mediterranean flora within XVI OPTIMA Meeting. Athens GR

9/2019–symposium Herbaria: still relevant in the 21st century? within the VI IPSC. Padua IT

9/2018–symposium Evolution and diversity in extreme environments within the V IPSC. Salerno IT

9/2017–symposium Marine and terrestrial biodiversity studies in the time of biological invasions within the IV IPSC. Parma IT

9/2016–symposium Filling gaps in systematics and conservation of the Mediterranean flora: recent outcomes and future challenges within the III IPSC. Rome IT

9/2015–symposium Agrobiodiversity and its conservation at the II IPSC. Pavia IT