

PERSONAL INFORMATION



Stefano Martellos

Via Gatteri 31, 34129 Trieste, Italy

Replace with telephone number  +39 328 7692650

martelst@units.it

[Http://dryades.units.it/SM](http://dryades.units.it/SM)

Replace with type of IM service Replace with messaging account(s)

Sex Male | Date of birth 12/04/1969 | Nationality Italian

POSITION

Associated Professor, Dept. of Life Sciences, University of Trieste

WORK EXPERIENCE

Replace with dates (from - to)

2010 – 01/11/2019

RESEARCHER UNIVERSITY OF TRIESTE

Research activities:

- Development of the infrastructure of databases on the biodiversity of Italy in the framework of project Dryades.
- Development of FRIDA (FRiendly IDentificAtion), an original software for the production of digital identification keys, patented by the University of Trieste.
- Taxonomy and systematics of Italian lichen flora, and management of ITALIC, the information system on Italian lichens.
- Ecology and distribution of Italian lichens, with focus on ecological niche modeling of rare and poorly known taxa.
- Citizen science in the field of biodiversity and conservation.

2005 – CURRENT

LECTURER

UNIVERSITY OF TRIESTE, UNIVERSITY OF UDINE

Ecology - Degree in Tecniche della Prevenzione nell'ambiente e nei luoghi di lavoro, Faculty of Medicine, University of Udine and Trieste. (SSD BIO/07)

2010 – 2010

LECTURER

EDIT PROJECT

Identification Keys - EDIT Summer School, Madeira (Portugal) (SSD BIO/02)

2010 – CURRENT

LECTURE

UNIVERSITY OF TRIESTE

Biodiversity Informatics - Global Change Ecology Science Master Degree (SSD BIO/02)

2012 – 2019

LECTURER

UNIVERSITÀ POPOLARE OF TRIESTE

Ecology - Formazione Studenti della Comunità Italiana Croata, Dipartimento di Scienze della Formazione, University "Juraj Dobrila", Pula, Croatia (SSD BIO/07)

2018 – 2019
LECTURER
UNIVERSITY OF TRIESTE
Ecology - Degree in Scienze e Tecnologie Biologiche, and Scienze e Tecnologie per l'Ambiente e la Natura (SSD BIO/07)

EDUCATION AND TRAINING

Replace with dates (from - to)

1989 – 1999
Master Degree in Biological Sciences (experimental thesis in applied ecology: Una banca dati sui licheni d'Italia). Università degli Studi di Trieste

2003 – 2005
PhD in Botany (experimental thesis: Strumenti per l'identificazione interattiva delle piante d'Italia). Università degli Studi di Trieste

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2

Communication skills

Good communication skills gained through experience as speaker in scientific conferences and in awareness raising events devoted to laypersons, and schools.
Good experience in involvement of volunteers in citizen science activities

Organisational / managerial skills

Leadership (former responsible for a team of ca. 30 people when Coordinating the EU funded project CSMON-LIFE)

Computer skills

Good command of Linux operating systems
Good command of MacOS and iOS operating systems
Good command of Windows operating systems
Good command of PHP language
Good command of MySQL database system

Driving licence

Replace with driving licence category/-ies. Example:
▪ A, B

ADDITIONAL INFORMATION

Projects

2003-present: Project *Dryades*.
Project *Dryades* gathers the results of all the initiatives and projects coordinated by the Department of Life Sciences of the Trieste University in the field of Biodiversity Informatics. The website allows access to interactive identification tool devoted to plants, fungi and animals, archives of digital images, and relevant databases on the biodiversity Italy. A specific section is dedicated to projects for schools.
Role: botanist, for the development of databases on lichens and plants, expert in data aggregation, and developer of innovative digital tools for the identification of organisms.

December 2010 – November 2013: Virtual Biodiversity Research and Access Net-

work for Taxonomy (ViBRANT)

Project funded by the European Union in the framework of FP7 programme (RI-261532)

ViBRANT supported the development of virtual research communities involved in biodiversity science. Our goal was to provide a more integrated and effective framework for those managing biodiversity data on the Web.

Role: data exchange and aggregation expert, taxonomist and expert in digital identification keys.

October 2007 – September 2010: KeyToNature: a new e-way to discover biodiversity

Project funded under the eContentplus programme (ECP-2006-EDU-410019)

KeyToNature developed a range of new, easier and paper-free identification tools, for use within schools and universities across Europe. They are available on a variety of platforms including laptops and mobile phones and can be tailored to individual requirements.

Role: expert in digital identification tools, developer of the new software FRIDA (FRiendly IDentificAtion) for the production of digital keys, and data aggregation.

October 2011 – September 2014: SiiT (Interactive instruments for the identification of biodiversity: an educational project in a cross border area)

Project funded by the Interreg Italy-Slovenia programme 2007-2013

SiiT is a three-year project aimed at enhancing the knowledge of biodiversity in an area extending from the eastern Adriatic coasts (Italy) to Western Slovenia by providing schools (from primary schools to universities) amateurs and citizens with innovative interactive tools for the identification of plants, animals and fungi.

Role: development of innovative tools for the identification of organisms, running online and in stand-alone mode, also on mobile devices (smartphones and tablets)

April 2012 – September 2015: Open Discovery Space (A socially-powered and multilingual open learning infrastructure to boost the adoption of eLearning resources)

Project funded by CIP-ICT-PSP-2011-5, Theme 2: Digital Content, Objective 2.4: eLearning Objective 2.4

ODS addresses various challenges that face the eLearning environment in the European context, and will empower stakeholders through a single, integrated access point for eLearning resources from dispersed educational repositories. It will also provide a community for the exchange of digital education content, and assess the impact of the new educational activities, which could serve as a prototype to be adopted by stakeholders in school education.

Role: National Coordinator for Italy, with a special focus on data aggregation.

June 2014 – December 2017: CSMON-LIFE (Citizen Science Monitoring)

Project funded by the European Commission in the framework of the LIFE+ programme (LIFE13 ENV/IT/842)

The project aimed at involving citizens in monitoring target species as bio-indicators of environmental issues, such as global changes, anthropisation, etc., as well as assessing changes in the distribution of rare and alien species.

Role: Project coordinator

September 2018 - August 2022: EU COST Action MOBILISE (Mobilising Data, Experts and Policies in Scientific Collections)

Project funded by the European Commission in the framework of the EU COST Action (CA17106)

MOBILISE intends to act as a flexible, creative, and multidisciplinary hub for exchanging experiences and expertise that each biodiversity related agent could bring together to a unique forum for discussion. It will produce a comprehensive knowledge framework for establishing bio- and geodiversity data as a crosscutting

topic for many diverse nature-related domains.

Role: Member of the Board, Coordinator of Working Group 5

June 2024 – November 2025: IDEM-FLOS (Strumenti multimediali per la Identificazione E Monitoraggio delle FLOre urbane e delle loro risposte agli Stress) Project funded by the PNRR, Misura 4 Componente 2 Investimento 1.4– Programma di ricerca e innovazione CN “National Biodiversity Future Center – NBFC”, Progetto CN00000033”, finanziato dall’Unione europea – NextGenerationEU – CUP H43C22000530001

The project aims at developing novel tools for allowing a wider contribution of the general public in the discovery and monitoring of ecosystems in urban areas, and for understanding the main drivers of stress, especially as a consequence of global change.

Role: Principal Investigator

Publications

Full papers on peer reviewed scientific journals

- Piervittori R, Isocrono D, Matteucci E, Morando M, Dessì L, Guglielmone L, Rainer H, Martellos S, Moro A, Nimis PL, Conti M, Favero-Longo SE., 2025 - A dataset from the Cryptogamia-Lichenes section of the Herbarium Universitatis Taurinensis (TO). *Biodiversity Data Journal* 13:e134717. doi: 10.3897/BDJ.12.e134717. PMID: 39958908; PMCID: PMC11826221.
- Martellos S, Zardini M, Seggi L, Conti M, Trabucco R, 2025 - The dataset of the Lichenotheca Veneta by Vittore Trevisan (1818–1897) *Biogeographia* 40 (2): a049. <https://doi.org/10.21426/B6.47194>
- Selvi F, Martellos S, Conti M., 2025 - Thirty-five years of floristic collections in southern Tuscany (Italy). *Biodiversity Data Journal* 28;13:e160516. doi: 10.3897/BDJ.13.e160516.
- Francesconi, L.; Conti, M.; Martellos, S.; Di Nuzzo, L.; Gheza, G.; Nimis, P.L.; Pistocchi, C.; Nascimbene, J., 2025 - Dolichens: An Information System on the Lichens of the Dolomites. *Journal of Fungi* 11, 624. <https://doi.org/10.3390/jof11090624>
- Francesconi L, Di Musciano M, Conti M, Di Nuzzo L, Gheza G, Grube M, Mayrhofer H, Martellos S, Nimis PL, Pistocchi C, Vallese C, Nascimbene J, 2025 - Range shift and climatic refugia for alpine lichens under climate change *Diversity and Distribution*, 31: e70079. <https://doi.org/10.1111/ddi.70079>
- S Martellos, S Andreatta, T Contardo, S Loppi, 2024 - Lichens and air quality: a new citizen science approach *ARPHA Proceedings* 6, 37-42
- Emanuele Fanfarillo, Stefano Loppi, Claudia Angiolini, Giovanni Bacaro, Elisabetta Bianchi, Gianmaria Bonari, Ilaria Bonini, Giulia Canali, Giacomo Cangelmi, Silvia Cannucci, Annalena Cogoni, Paola De Giorgi, Luca Di Nuzzo, Leopoldo de Simone, Tiberio Fiaschi, Daniel Fontana, Jacopo Franzoni, Antonio Giacò, Paolo Giordani, Martina Grattacaso, Lorenzo Lazzaro, Stefano Martellos, Irene Mazza, Michele Mugnai, Giulio Pandeli, Claudia Perini, Lorenzo Pinzani, Silvia Poponessi, Sonia Ravera, Elena Salerno, Adriano Stinca, Manuel Tiburtini, Chiara Vallese, Simona Maccherini, 2024 - Bryophyte, lichen, and vascular plant communities of badland grasslands show weak cross-taxon congruence but high local uniqueness in biancana pediments *Ecological Indicators* 165, 112171
- H Cena, M Labra, et al., 2024 - Biodiversity and planetary health: a call for integrated action *The Lancet* 403 (10440), 1985-1986
- M Lussu, P Zannini, R Testolin, D Dolci, M Conti, S Martellos, A Chiarucci, 2024 - Biogeography of orchids and their pollination syndromes in small Mediterranean islands *Journal of Biogeography* 51 (5), 869-877
- Riccardo Testolin, Fabio Attorre, Vanessa Bruzzaniti, Riccardo Guarino, Borja Jiménez-Alfaro, Michele Lussu, Stefano Martellos, Michele Di Musciano, Salvatore Pasta, Francesco Maria Sabatini, Francesco Santi, Piero Zannini, Alessandro Chiarucci, 2024 - Plant species richness hotspots and related

- drivers across spatial scales in small Mediterranean islands *Journal of Systematics and Evolution* 62 (2), 242-256
- PL Nimis, E Pittao, M Caramia, P Pitacco, S Martellos, L Muggia, 2024 - The ecology of lichenicolous lichens: a case-study in Italy *MycoKeys* 105, 253
- Luana Francesconi, Matteo Conti, Gabriele Gheza, Stefano Martellos, Pier Luigi Nimis, Chiara Vallese, Juri Nascimbene, 2024 - The Dolichens database: the lichen biota of the Dolomites *MycoKeys* 103, 25
- M Conti, S Martellos, A Moro, PL Nimis, D Puntillo, 2024 - The dataset of the CLU lichen herbarium (Calabria, Italy) *Biodiversity Data Journal* 12
- Michele Lussu, Leonardo Ancillotto, Rocco Labadessa, Michele Di Musciano, Piero Zannini, Riccardo Testolin, Francesco Santi, David Dolci, Matteo Conti, Michela Marignani, Stefano Martellos, Lorenzo Peruzzi, Alessandro Chiarucci, 2024 - Prioritizing conservation of terrestrial orchids: A gap analysis for Italy *Biological Conservation* 289, 110385
- Pedro Jiménez-Mejías, Saúl Manzano, Vinita Gowda, Frank-Thorsten Krell, Mei-Ying Lin, Santiago Martín-Bravo, Laura Martín-Torrijos, Gonzalo Nieto Feliner, Sergei L Mosyakin, Robert F C Naczi, Carmen Acedo, Inés Álvarez, Jorge V Crisci, Modesto Luceño Garcés, John Manning, Juan Carlos Moreno Saiz, A Muthama Muasya, Ricarda Riina, Andrea Sánchez Meseguer, Daniel Sánchez-Mata, 1543 additional coauthors, 2024 - Protecting stable biological nomenclatural systems enables universal communication: A collective international appeal *BioScience*, 74 (7): 467–472, <https://doi.org/10.1093/biosci/biae043>
- Seggi, L.; Trabucco, R.; Martellos, S., 2024 - Valorization of Historical Natural History Collections Through Digitization: The Algarium Vatova–Schiffner. *Plants* 13, 2901. <https://doi.org/10.3390/plants13202901>
- Martellos S, Seggi L, 2024 - Keep Calm and Digitize Everything. The Effect of Digitization on Mobilization and Use of Natural History Collection Specimens *Nuncius* 39(3): 789-803. <https://doi.org/10.1163/18253911-0390310111>
- Martellos, S.; Zardini, M.; Seggi, L.; Conti, M.; Trabucco, R., 2024 - Digitization of the Lichenotheca Veneta by Vittore Trevisan. *Heritage* 7: 7298-7308. <https://doi.org/10.3390/heritage7120337>
- Alessi, N, Bonari, G, Zannini, P, Jimenez-Alfaro, B, Agrillo, E, Attorre, F, Canullo, R, Casella, L, Cervellini, M, Chelli, S, Di Musciano, M, Guarino, R, Martellos, S, Massimi, M, Venanzoni, R, Zerbe, S, Chiarucci, A, 2023 - Probabilistic and preferential sampling approaches offer integrated perspectives of Italian forest diversity. *Journal of Vegetation Science*, vol. 34, <https://doi.org/10.1111/jvs.13175>
- Conti, M, Nimis, PL, Tretiach, M, Muggia, L, Moro, A, Martellos, S, Prieto, M, 2023 - The Italian lichens dataset from the TSB herbarium (University of Trieste). *Biodiversity Data Journal*, 11: e96466. <https://doi.org/10.3897/BDJ.11.e96466>
- Martellos, Stefano, Conti, Matteo, Nimis, Pier Luigi, 2023 - Aggregation of Italian Lichen Data in ITALIC 7.0 *Journal of Fungi*, 9: 556. <https://doi.org/10.3390/jof9050556>
- Sonia Ravera, Alfredo Vizzini, Marta Puglisi, Silvia Assini, Renato Benesperi, Elisabetta Bianchi, Fabrizio Boccoardo, Francesca Bottegoni, Wolfgang von Brackel, Marco Clericuzio, Valerii Darmostuk, Antonio B De Giuseppe, Luca Di Nuzzo, Francesco Dovana, Roberta Galli, Gabriele Gheza, Paolo Giordani, Anna Guttová, Deborah Isocrono, Jiří Malíček, Stefano Martellos, Helmut Mayrhofer, Juri Nascimbene, Pier Luigi Nimis, Luca Paoli, Nicodemo G Passalacqua, Filippo Prosser, Domenico Puntillo, Linda Seggi, Giovanni Sicoli, Einar Timdal, Raffaella Trabucco, Chiara Vallese, 2022. Notulae to the Italian flora of algae, bryophytes, fungi and lichens: 13. *Italian Botanist*, 13:1-17
- Stefano Martellos, Linda Seggi, Matteo Conti, 2022. Age-related mobile digital divide in citizen science: the CSMON-LIFE experience. *Biogeographia* 37(2): 1-8.

- Alberto Presta, Felice Andrea Pellegrino, Stefano Martellos. 2022. Learning-based automatic classification of lichens from images. *Biosystems Engineering* 213: 119-132.
- Stefano Martellos, Elena Pittao, Donatella Cesaroni, Alessio Mereu, Damiano Petruzzella, Manuela Pinzari, Valerio Sbordoni, Giuliano Tallone, Fabio Attorre. 2021. Volunteers Recruitment, Retention, and Performance during the CSMON-LIFE (Citizen Science MONitoring) Project and 3 Years of Follow-Up. *Sustainability* 13(19): 11110.
- Matteo Conti, Pier Luigi Nimis, Stefano Martellos. 2021. Match algorithms for scientific names in floritaly, the portal to the flora of Italy. *Plants*, 10(5): 974.
- Pier Luigi Nimis, Stefano Martellos. 2020. Towards a digital key to the lichens of Italy. *Symbiosis* 82(1): 149-155
- Pier Luigi Nimis, Stefano Martellos, Alessandro Chiarucci, Silvia Ongaro, Marco Peplis, Elena Pittao, Juri Nascimbene. 2020. Exploring the relationships between ecology and species traits in cyanolichens: A case study on Italy. *Fungal Ecology* 47: 100950.
- Stefano Martellos, Marco d'Agostino, Alessandro Chiarucci, Pier Luigi Nimis, Juri Nascimbene. 2020. Lichen distribution patterns in the ecoregions of Italy. *Diversity*: 12(8): 294.
- Sonia Ravera, Marta Puglisi, Alfredo Vizzini, Cecilia Totti, Gabriella Arosio, Renato Benesperi, Elisabetta Bianchi, Fabrizio Boccardo, Ian Briozzo, Davide Dagnino, Antonio B De Giuseppe, Francesco Dovana, Luca Di Nuzzo, Simonetta Fascetti, Gabriele Gheza, Paolo Giordani, Jiri Malíček, Mauro Giorgio Mariotti, Helmut Mayrhofer, Luigi Minuto, Juri Nascimbene, Pier Luigi Nimis, Stefano Martellos, Nicodemo G Passalacqua, Elena Pittao, Giovanna Potenza, Domenico Puntillo, Leonardo Rosati, Giovanni Sicoli, Daniel Spitale, Valeria Tomaselli, Raffaella Trabucco, Claudia Turcato, Chiara Vallese, Maria Zardini. 2019. Notulae to the Italian flora of algae, bryophytes, fungi and lichens: 8. *Italian Botanist* 8: 47-62.
- Anna Guttova, Zuzana Fackovcova, Stefano Martellos, Luca Paoli, Silvana Munzi, Elena Pittao, Silvia Ongaro, 2019 - Ecological specialization of lichen congeners with a strong link to Mediterranean-type climate: a case study of the genus *Solenopsis* in the Apennine Peninsula *The Lichenologist* 51(1): 75-88
- Pacifici M, Attorre F, Martellos S, Bego F, De Sanctis M, Hoda P, Meço M, Rondinini C, Saçdanaku E, Salihaj E, Scepi E, Shuka L, Ghiurghi A, 2018 - BioNNA: the Biodiversity National Network of Albania *Nature Conservation* 25: 77-88
- Nimis PL, Hafellner J, Roux C, Clerc P, Mayrhofer H, Martellos S, Bilovitz PO, 2018 - The lichens of the Alps—an annotated checklist *MycoKeys* 31: 1-634
- Savi T, Petruzzellis F, Martellos S, Stenni B, Dal Borgo A, Zini L, Lisjak K, Nardini A, 2018 - Vineyard water relations in a karstic area: deep roots and irrigation management *Agriculture, Ecosystems & Environment* 263: 53-59
- Pinzari M, Cianferoni F, Martellos S, Dioli P, 2018 - *Zelus renardii* (Kolenati, 1856), a newly established alien species in Italy (Hemiptera: Reduviidae, Harpactorinae) *Fragmenta entomologica* 50(1): 31-35
- Nimis PL, Martellos S, Spitale D, Nascimbene J, 2018 - Exploring patterns of commonness and rarity in lichens: a case study from Italy (Southern Europe) *The Lichenologist*: 50(3): 385-396
- Ravera S, Vizzini A, Cogoni A, Aleffi M, Benesperi R, Bianchi E, von Brackel W, Cataldo D, D'Antonio C, Di Nuzzo L, Favero Longo SE, Gheza G, Isocrono D, Matteucci E, Martellos S, Morosini L, Nimis PL, Ongaro S, Popponessi S, Puntillo D, Sguazzin F, Tretiach M, 2018 - Notulae to the Italian flora of algae, bryophytes, fungi and lichens: 5 *Italian Botanist* 5: 31-43
- Ongaro S, Martellos S, Bacaro G, De Agostini A, Cogoni A, Cortis P, 2018 - Distributional pattern of Sardinian orchids under a climate change scenario *Community Ecology* 19 (3), 223-232
- Girardello M, Martellos S, Pardo A, Bertolino S, 2018 - Gaps in biodiversity occur-

- rence information may hamper the achievement of international biodiversity targets: insights from a cross-taxon analysis *Environmental Conservation* 45(4): 370-377
- Skert, C., Perucca, S., Chiarini, M., Giustini, V., Sottini, A., Ghidini, C., Martellos, S., Cattina, F., Rambaldi, B., Cancelli, V., Malagola, M., Turra, A., Polverelli, N., Bernardi, S., Imberti, L. & Russo, D., 2017 - Sequential monitoring of lymphocyte subsets and of T-and-B cell neogenesis indexes to identify time-varying immunologic profiles in relation to graft-versus-host disease and relapse after allogeneic stem cell transplantation *PLoS One*, vol. 12, no. 4.
- Marcantonio M, Martellos S, Altobelli A, Attorre F, Tordoni E, Ongaro S, Rocchini D, Da Re D, Chiarucci A, Bacaro G, 2017 - HOW DOES SPATIAL SCALE AFFECT SPECIES RICHNESS MODELLING? A TEST USING REMOTE SENSING DATA AND GEOSTATISTICS *Annali di Botanica* 7: 11-24
- Savi T, L Love V, Dal Borgo A, Martellos S, Nardini A, 2017 - Morpho-anatomical and physiological traits in saplings of drought-tolerant Mediterranean woody species *Trees* 31(4): 1137-1148
- Tordoni E, Napolitano R, Nimis PL, Castello M, Altobelli A, Da Re D, Zago S, Chines A, Martellos S, Maccherini S, Bacaro G, 2017 - Diversity patterns of alien and native plant species in Trieste port area: exploring the role of urban habitats in biodiversity conservation *Urban Ecosystems* 20(5): 1151-1160
- F. Attorre, S. Bonacquisti, F. Francesconi, V. Sambucini & S. Martellos, 2016 - Sharing Italian Botanic Gardens' living collections: The role of the National Biodiversity Network *Plant Biosystems* 150(3): 373-6
- S. Martellos, J. Laganis, G. Bacaro, S. Bonacquisti, L. Drewnicka & F. Attorre, 2016 - Botanical gardens and citizen science: An (as yet) under-exploited potential *Plant Biosystems* 150(3): 381-3
- P. L. Nimis, A. Moro, F. Attorre, S. Martellos & E. Chiancone, 2016 - A digital flora of Rome *Plant Biosystems* 150(3): 384-7
- S Martellos, L Ukosich, M Avian, 2016 - JellyWeb: an interactive information system on Scyphozoa, Cubozoa and Staurozoa *ZooKeys* 554: 1-25 (18 Jan 2016) doi: 10.3897/zookeys.554.6745
- Giovanni Bacaro, Alfredo Altobelli, Michela Cameletti, Daniela Ciccarelli, Stefano Martellos, Michael W Palmer, Carlo Ricotta, Duccio Rocchini, Samuel M Scheiner, Enrico Tordoni, Alessandro Chiarucci, 2016 - Incorporating spatial autocorrelation in rarefaction methods: Implications for ecologists and conservation biologists *Ecological Indicators* 69: 233-238
- Martellos S, 2016 - A federated database of taxon pages in the Italian Biodiversity Network *Plant Biosystems*
- Nimis P.L., Moro A., Martellos S., Lazzari G., Merloni N., Saiano D, 2015 - Chiave alla Flora del basso corso del fiume Lamone *Quad. Mus. Civ. St. Nat. Ferrara*, 3: 33-53
- Bacaro G, Maccherini S, Chiarucci A, Jentsch A, Rocchini D, Torri D, Gioria M, Tordoni E, Martellos S, Altobelli A, Otto R, Escudero CG, Fernandez-Lugo S, Fernandez-Palacios JM, Arévalo JR, 2015 - Distributional patterns of endemic, native and alien species along a roadside elevational gradient in Tenerife, Canary Islands *Community Ecology* 16 (2), 223-234
- Peinado S, Mota JM, Berns A, Palomo Duarte M, Dodero Beardo JM, Martellos S, Doran R, Lingyte A, Arnold CJ, Bissinger K, Kouzov O, Chelioti E, Cherouvis S, Stergiopoulos P, 2015 - Experiences of technology-rich innovation in European schools within the Open Discovery Space project *Teoría de la Educación: Educación y Cultura en la Sociedad de la Información* 3(2): 35-56
- Martellos S, Nimis PL, 2015 - From Local Checklists to Online Identification Portals: A Case Study on Vascular Plants *Plos ONE* 10(3): e0120970
- Stefano Martellos, Jana Laganis, 2015 - Licheni, Citizen Science e CSMON-LIFE. *Not.Soc.Lich.Ital.* 28: 78-84
- Martellos S., 2014 - A federated database of taxon pages in the Italian Biodiversity Network *Plant Biosystems*. DOI: 10.1080/11263504.2014.988191

- Martellos S., Attorre F., Farcomeni A., Francesconi F., Pittao E., Tretiach M., 2014 - Species distribution models backing taxa delimitation: the case of the lichen *Squamarina cartilaginea* in Italy *Flora* 209(12): 698-703
- Martellos S, Aleffi M, Tacchi R, Riccamboni R & Nimis PL, 2013 - An Information System on Italian Liverworts, Hornworts and Mosses *Plant Biosystems* 147(3): 529-535 – DOI:10.1080/11263504.2012.760497
- Galimberti A, De Mattia F, Losa A, Bruni I, Federici S, Casiraghi M, Martellos S, Labra M, 2013 - DNA barcoding as a new tool for food traceability *Food Research International* 50(1): 55-63
- Attorre F, Fortunato C & Martellos S, 2013 - Botanical information in the Italian Biodiversity Network: One year of data aggregation and future perspectives *Plant Biosystems* 147(4): 1101-1103 - DOI: 10.1080/11263504.2013.860054
- Bruni I, De Mattia F, Martellos S, Galimberti A, Savadori P, Casiraghi M, Nimis PL, 2012 - DNA Barcoding as an Effective Tool in Improving a Digital Plant Identification System: A Case Study for the Area of Mt. Valerio, Trieste (NE Italy). *PLoS ONE* 7(9): e43256. doi:10.1371/journal.pone.0043256
- Martellos S., Attorre F., 2012 - New Trends in Biodiversity Informatics *Plant Biosystems* 146(4): 749-751
- Martellos S., 2012 - From a textual checklist to an information system: The case study of ITALIC, the Information System on Italian Lichens *Plant Biosystems* 146(4): 764-770
- Nimis P.L., Riccamboni R., Martellos S., 2012 - Identification keys on mobile devices: The Dryades experience *Plant Biosystems* 146(4): 783-788
- Martellos S., Attorre F., De Felici S., Cesaroni D., Sbordoni V., Blasi C. & Nimis P.L., 2011 - Plant sciences and the Italian National Biodiversity Network *Plant Biosystems* 145(4): 758-761 (DOI: 10.1080/11263504.2011.620342)
- Ravera S., Nimis P.L., Brunialti G., Frati L., Isocrono D., Martellos S., Munzi S., Nascimbene J., Potenza G., Tretiach M., 2011 - The role of lichens in selecting Important Plant Areas in Italy *Fitosociologia* 48(2) suppl. 1: 145-153
- Martellos, S, van Spronsen, E., Seijts, D., Torrescasana Aloy, N., Schalk, P. & Nimis, P.L., 2010 - User-generated content in the digital identification of organisms: the KeyToNature approach *Int. J. Information and Operations Management Education*, Vol. 3, No. 3: 272-83
- Martellos, S., 2010 - Multi-authored interactive identification keys: The FRIDA (FRiendly IDentificAtion) package *Taxon* 59 (3): 922-9
- Randlane T., Saag A., Martellos S. & Nimis P.L., 2010 - Computer-aided, interactive keys to lichens in the EU project KeyToNature, and related resources *Bibliotheca Lichenologica* 105: 37-42
- Nimis, P.L. & Martellos, S., 2009 - Computer-aided Tools for Identifying Organisms and their Importance for Protected Areas *Journal of eco.mont* 1(2): 55-60. doi: 10.1553/ecomont2s61
- Moneghini, M., Perissutti, B., Princivalle, F., Martellos, S., 2008 - Rapidly dissolving extrudates prepared by a warm extrusion process. *Journal of Drug Delivery Science and Technology*, 18(5): 351-357
- Benesperi, R., Brunialti, g., Fappiano, A., Frati, L., Giordani, P., Loppi, S., Paoli, L., Ravera, S., Buzio, P., Benco, C., Martellos, S. & Tretiach, M., 2007 - Contributo alla conoscenza lichenica dell'Abetone, Appennino Tosco-Emiliano. *Informatore Botanico Italiano* 39 (1): 43-51
- Castello M., Martellos S. & Nimis P.L., 2006 - VICTORIA: an on-line information system on the lichens of Victoria Land (Continental Antarctica). *Polar Biology*, 29 (7): 604-8
- Nascimbene J., Martellos S. & Nimis P.L., 2006 - Epiphytic lichens of tree-line forests in the Central-Eastern Italian Alps and their importance for conservation. *The Lichenologist*, 38 (4): 373-382
- Martellos S., Alongi G., Falace A., Cormaci M., Giaccone G. & Nimis P.L., 2005 - Un sistema di identificazione interattivo applicato alle macroalghe bentoniche. *Biol. Mar. Medit.* 12 (1): 31-41
- Martellos S., 2004 - Five lichens new to Friuli. *Gortania* 26: 105-109

- Martellos S. & Castello M., 2004 - An automatically-produced key to the lichens of Mt. Valerio (Trieste, NE Italy). *Gortania* 26: 79-104
- Nimis, P.L. & Martellos, S., 2003 - On the ecology of sorediate lichens in Italy *Bibliotheca Lichenologica* 86
- Martellos S., 2003 - The distribution of the two chemical varieties of the lichen *Pseudevernia furfuracea* in Italy. *Plant Biosystems*, 137(1): 29-34
- Nimis, P.L., Martellos, S. & Moro A., 2003 - Il progetto Dryades: come identificare una piante, da Gutenberg a Internet *Biologi Italiani*, 7: 9-15
- Nimis, P.L. & Martellos, S., 2002 - ITALIC, a database on Italian Lichens *Bibliotheca Lichenologica* 82: 271-282
- Nimis PL., Martellos S., 2001 - Testing the predictivity of ecological indicator values. A comparison of real and virtual relevés of lichen vegetation. *Plant Ecology* 157: 165-172

Books

- Nimis PL, Aptroot A, Boonpragob K, Buaruang K, Poengsunnoen V, Polyiam W, Vongshewarat K, Meesim S, Boonpeng C, Phokaeo S, Molsil M, Nirongbutr P, Sangvichien E, Moro A, Pittao E, Martellos S, 2017 - 100 Lichens from Thailand: a tutorial for students EUT Edizioni Università di Trieste
- Pittao E, Martellos S, 2017 - Il biomonitoraggio ambientale tramite licheni Rapporto tecnico del progetto CSMON-LIFE (<http://www.csmon-life.eu/backend/assets/js/tinymce/source/Libri%20report%20depliant/Rapporto%20Licheni.pdf>)
- Nimis P.L., Nascimbene J., Martellos S., Moro A., 2015 - I licheni epifiti del Parco Naturale di Paneveggio-pale di San Martino EUT, Trieste, 135 pp. E-ISBN 978-88-8303-631-6
- PL. Nimis, A. Moro, S. Martellos, 2013 - Guida alla flora delle Alpi Carniche meridionali (Ampezzo - Sauris) EUT (Edizioni Università di Trieste)
- P. Nimis, R. Masin, C. Tietto, S. Andreatta, A. Miola, M. Villani, S. Martellos, A. Moro, 2013 - Guida alle piante legnose dei Colli Euganei EUT (Edizioni Università di Trieste)
- Nimis, P.L. & Martellos, S., 2006 - Guide alla flora II. Pordenone (PN), Risorgive di Flambro (UD), Laghi di Fusine (UD), M. Matajur (UD). Le guide di Dryades 3 - Serie Flore II (F-II). Edizioni Goliardiche, Trieste, 371 pp.
- Nimis, P.L., Poldini L. & Martellos, S., 2006 - Guide alla flora III. Guida alla flora della Val Rosandra (Trieste). Le guide di Dryades 4 - Serie Flore III (F-III). Edizioni Goliardiche, Trieste, 467 pp.
- Nimis, P.L. & Martellos, S., 2005 - Guide alla flora I. Grado (GO), Magredi di Vivaro (PN), Ampezzo-Sauris (UD), M. Coglians (UD). Le guide di Dryades 2 - Serie Flore I (F-I). Edizioni Goliardiche, Trieste, 380 pp.
- Nimis, P.L. & Martellos, S., 2004 - Keys to the lichens of Italy. I. Terricolous species. Le guide di Dryades 1 - Serie Licheni I (L-I). Edizioni Goliardiche, Trieste, 341 pp.
- Nimis, P.L. & Martellos, S., 2003 - A Second Checklist of the Lichens of Italy with a Thesaurus of Synonyms. Museo Regionale di Scienze Naturali, Saint-Pierre, Aosta. Monografie 4, 192 pp.

Chapters in books

- Giovanni Bacaro, Carpona Marco, Enrico Tordoni, Rossella Napolitano, Stefano Martellos, 2018 - I Servizi Ecosistemici e la loro valutazione economica STUDIO CONOSCITIVO DEI CAMBIAMENTI CLIMATICI E DI ALCUNI LORO IMPATTI IN FRIULI VENEZIA GIULIA. PRIMO REPORT
- Giovanni Bacaro, Carpona Marco, Enrico Tordoni, Rossella Napolitano, Stefano Martellos, 2018 - Valutazione dei Servizi Ecosistemici in ambiente urbano come strumento per l'adattamento ai Cambiamenti Climatici STUDIO CONOSCITIVO DEI CAMBIAMENTI CLIMATICI E DI ALCUNI LORO IMPATTI IN FRIULI VENEZIA GIULIA PRIMO REPORT
- Bacaro G, Marco C, Tordoni E, Napolitano R, Martellos S, 2018 - Valutazione dei Servizi Ecosistemici in ambiente urbano come strumento per l'adattamento ai Cambiamenti Climatici. In: ARPA FVG. Studio conoscitivo dei cambia-

- menti climatici e di alcuni loro impatti in Friuli Venezia Giulia. Supporto alla predisposizione di una strategia regionale di adattamento ai cambiamenti climatici e per le azioni di mitigazione.
- Bacaro G, Marco C, Tordoni E, Napolitano R, Martellos S, 2018 - I Servizi Ecosistemici e la loro valutazione economica. In: ARPA FVG. Studio conoscitivo dei cambiamenti climatici e di alcuni loro impatti in Friuli Venezia Giulia. Supporto alla predisposizione di una strategia regionale di adattamento ai cambiamenti climatici e per le azioni di mitigazione.
- PL. Nimis, S. Martellos, 2012 - Identificare le piante via Web In: F. Taffetani, 2012. Herbaria Il grande libro degli erbari italiani. 814 pp: 144-149
- PL. Nimis, S. Martellos, 2012 - Erbari Lichenologici In: F. Taffetani, 2012. Herbaria Il grande libro degli erbari italiani. 814 pp: 159-170
- S. Martellos, P. Cuccuini, B. Calosso, F. Barbagli, PL. Nimis, 2012 - Gli erbari come beni culturali In: F. Taffetani, 2012. Herbaria Il grande libro degli erbari italiani. 814 pp: 639-642
- Martellos, S. & Riccamboni, R., 2007 - Introduzione In: Martellos, S., Montagnari Kokelj, M., Nimis, P.L. & Pugliese, N. (Eds.): "Camminando con la scienza in tasca: Duino-Aurisina in un computer palmare". Edizioni Goliardiche, Trieste: 7-12
- Nimis, P.L., Martellos, S., Poldini, L. & Moro, A., 2007 - Flora e vegetazione terrestri In: Martellos, S., Montagnari Kokelj, M., Nimis, P.L. & Pugliese, N. (Eds.): "Camminando con la scienza in tasca: Duino-Aurisina in un computer palmare". Edizioni Goliardiche, Trieste: 7-12
- Nimis, P.L., Martellos, S. & Moro, A., 2006 - Come identificare le diverse entità tassonomiche. In: Grassi, F., Labra, M. & Sala, F. - Introduzione alla biodiversità nel mondo vegetale. Piccin, Padova: 33-35
- Nimis, P.L. & Martellos, S., 2005 - Licheni. In: Blasi C., Boitani L., La Posta S., Manes F., Marchetti M.: Stato della biodiversità in Italia, Palombi: 182-186
- Martellos S., Nascimbene J. & Nimis P.L., 2004 - I licheni delle Alpi: biodiversità e conservazione. In: APAT: La protezione delle specie selvatiche (flora e fauna) nella Convenzione delle Alpi: 176-186

Curatorships

- Martellos, S., Montagnari Kokelj, M., Nimis, P.L. & Pugliese, N. (Eds.), 2007 - Camminando con la scienza in tasca: Duino-Aurisina in un computer palmare. Edizioni Goliardiche, Trieste, 47 pp.
- Arbulla d., Bressi N., Martellos S., Montagnari Kokelj E., Nimis P.L. & Princivalle F. (EDS), 2004 - Museo oggi, tra reale e virtuale. Atti del XV Convegno ANMS, Trieste, 23-26 Novembre 2005. Atti Mus. Civ. Stor. Nat. Trieste, 51 (Suppl)

Papers in conference proceedings

- Martellos S, Bartolucci F, Conti F, Galasso G, Moro A, Pennesi R, Peruzzi L, Pitta E, Nimis PL, 2018 - Il nuovo portale alla flora d'Italia. In: Domina G, Peruzzi L, Approfondimenti floristici e sistematici sulla flora italiana: 27-28. Notiziario della Società Botanica Italiana, 2.
- S. Martellos, 2013 - Musei e Collezioni: il Web come strumento per aumentarne visibilità e bacino d'utenza. In: S. Mazzotti, G. Malerba. I musei delle scienze e la biodiversità. Museologia Scientifica Memorie, 9, 2013: 28-32
- G. Forti, PL. Nimis, S. Martellos, 2013 - KeyToNature: sperimentazione di una rete di accesso facilitato alla botanica nel Lazio attraverso i musei RESINA In: S. Mazzotti, G. Malerba. I musei delle scienze e la biodiversità. Museologia Scientifica Memorie, 9, 2013: 152-156
- S. Martellos, S de Felici, F. Attorre, C. Fortunato, V. Sbordoni, 2013 - I Network Nazionale della Biodiversità: accesso e condivisione dei dati in rete Atti del XXXIX Congresso della SOCIETA' ITALIANA DI BIOGEOGRAFIA "Liguria: dagli Appennini alle Alpi.....passando per il mare" Rapallo, 29-31 maggio 2013. Bollettino dei musei e degli istituti biologici dell'Università di Genova 75: 6-9
- Martellos S., 2013 - Musei e Collezioni: il Web come strumento per aumentare vi-

- sibilità e bacino d'utenza *Museologia Scientifica Memorie* 9: 28-32
- Gianluca Forti, Pier Luigi Nimis, Stefano Martellos, 2013 - KeyToNature: sperimentazione di una rete di accesso facilitato alla botanica nel Lazio attraverso i musei RESINA *Museologia Scientifica Memorie* 9: 152-156
- Peter O Bilovitz, Pier Luigi Nimis, Stefano Martellos, Philippe Clerc, Tassilo Feuerer, Josef Hafellner, Claude Roux, Helmut Mayrhofer, 2013 - A transnational lichen inventory of the Alps: a long overdue task 5th Symposium for Research in Protected Areas. Mittersill, 10-12 June 2013: 57-58
- G. Hagedorn, B. Press, S. Hetzner, A. Plank, G. Weber, S. von Mering, S. Martellos and P.L. Nimis, 2010 - A MediaWiki implementation of single-access keys In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 77-82
- G. Hagedorn, G. Rambold, S. Martellos, 2010 - Types of identification keys In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 59-64
- S. Martellos, 2010 - FRIDA 3.0. Multi-authored digital identification keys in the Web In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 115-120
- E. van Spronsen, S. Martellos, D. Seijts, P. Schalk, P.L. Nimis, 2010 - Modifiable digital identification keys In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 127-131
- M. Giurgiu, A. Homodi, E. van Spronsen, S. Martellos, P.L. Nimis, 2010 - The Open Key Player: A new approach for online interaction and user-tracking in identification keys In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 133-136
- J. Nascimbene, S. Martellos, P.L. Nimis, 2010 - An integrated system for producing user-specific keys on demand: an application to Italian lichens In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 151-156
- C. Kittl, P. Schalk, N. Dorigo Salamon, S. Martellos, 2010 - A Basic Business Model for Commercial Application of Identification Tools In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 437-443
- G. Hagedorn, G. Weber, A. Plank, M. Giurgiu, A. Homodi, C. Veja, G. Schmidt, P. Mihnev, M. Roujinov, D. Triebel, R. A. Morris, B. Zelazny, E. van Spronsen, P. Schalk, C. Kittl, R. Brandner, S. Martellos, P.L. Nimis, 2010 - An online authoring and publishing platform for field guides and identification tools In: P. L. Nimis and R. Vignes Lebbe (eds.), *Tools for Identifying Biodiversity: Progress and Problems*, pp. 13-18
- HETZNER S, RANDLANE T, MARTELLOS S., NIMIS P.L., 2010 - Biodiversity Teaching Using KeyToNature E-Tools In: *Proceedings of the IASK International Conference Teaching and Learning 2010*: 384-391
- PL. Nimis, S. Martellos, G. Forti, 2010 - KeyToNature, strumenti interattivi per la didattica della biodiversità: una partnership con il sistema museale naturalistico RESINA della Regione Lazio In: E. Falchetti, G. Forti. *Musei Scientifici Italiani verso la sostenibilità. Stato dell'arte e prospettive. Museologia Scientifica Memorie*, 6, 2010: 324-327
- Kaleb S., Bressan G. & Martellos S., 2009 - CALCHERB, an information system on calcareous red algae of the Coralligenous *Proceedings of the 1st Symposium on the Coralligenous and other calcareous bio-concretions of the Mediterranean Sea (Tabarka, 15-16 January 2009)*: 101-106
- Martellos, S, van Spronsen, E., Seijts, D., Torrescasana Aloy, N., Schalk, P. & Nimis, P.L., 2009 - Digital identification keys to organisms and user-generated content. The KeyToNature approach In: Muñoz, M., Ferreira, F., 2009: *Proceedings of the IASK International Conference Teaching and Learning 2009*: 96-102
- Martellos, S. & Nimis, P.L., 2008 - KeyToNature: Teaching and Learning Biodiversity. Dryades, the Italian Experience. In: Muñoz, M., Jelinek, I., Ferreira, F., 2008: *Proceedings of the IASK International Conference Teaching and*

Learning 2008: 863-868

Martellos, S., Riccamboni, R., Montagnari Kokelj, E. & Nimis, P.L., 2008 - Multidisciplinary Travel Guides on PDAs. In: Costa, C., Cravo, P., 2008: Proceedings of the IASK International Conference Advances in Tourism Research 2008: 117-120

Rodolfi M., Rodino D., Picco A.M., Moretti A., Ritieni A, Biloni M., Tabacchi M., Martellos S., Forlani G., Nielsen E. & Sala F., 2005 - La colonizzazione fungina delle varietà di *Oryza sativa* L. coltivate in Italia: indagini ed aspetti applicativi. *Informatore Botanico Italiano* 37 (1, parte B): 864-865

Rovegno D., Martellos S. & Guglielminetti M., 2005 - Chiave morfo-fisiologica on-line dei funghi cheratinofili. *Informatore Botanico Italiano* 37 (1, parte B): 866-867

Castello, M., Martellos, S. & Nimis, P.L., 2005 - Licheni antartici: dall'erbario a internet *Atti Mus. Civ. Stor. Nat. Trieste*, 51 (Suppl): 65-68

Martellos S. & Nimis P.L., 2005 - Identificazione interattiva in rete di piante e funghi d'Italia *Informatore Botanico Italiano* 37 (1, parte B): 802-803

Other works

S. Martellos, 2012 - La Dorata *Parmelia*. Presentazione di un volume dedicato a Camillo Sbarbaro *Notiziario della Società Lichenologica Italiana*, 25: 83-84

Nimis P.L., Martellos S., 2006 - Come fanno i licheni a crescere sulle pietre? Focus speciale domande e risposte 6: 37

S. Martellos, 2005 - *Buellia*, incl. *Amandinea* and *Hafellia*: Systematics and identification. Corso di identificazione sul genere *Buellia* s.l. *Notiziario della Società Lichenologica Italiana*, 18: 85-87

S. Martellos, 1999 - The Italian lichen flora on-line *International Lichenological Newsletter* Vol. 32 (1)