

Curriculum vitae – Sergio E. Favero Longo, PhD (SEFL)

Current position

Since Nov 2019, SEFL is associate professor (academic discipline BIO/03: Applied and environmental botany) at the Department of Life Sciences and Systems Biology, University of Torino (UniTO)



Education and previous positions

-M.Sc. equivalent in Natural Sciences (110/110 *cum laude*; awarded with “Medaglia d’Argento” of UNiTO for the best thesis in Natural Sciences discussed in the a.y. 2000-2001)

-PhD in Biology and Biotechnology of Fungi got from UniTO in Jan 2006: research activities carried on in the Depts. of Plant Biology, Chemistry and Mineralogical-Petrological Sciences of UniTO (supervisors: professors R. Piervittori and B. Fubini), in the Scientific Laboratory of “Soprintendenza Speciale per il Polo Museale Veneziano” (Venice; under the direction of Dr. O. Salvadori) and in the “Institut für Pflanzenbiologie und Cytologie” (Universität Zürich; under the direction of Prof. R. Honegger)

-Post-Doc Research Scientist from Nov 2005 to Dec 2006 at UniTO

-Research technician in the Lab. of Lichenology of the Dept. of Plant Biology (since 2012, Dept. of Life Sciences and Systems Biology-DBIOS), UniTO (Dec 2006-Oct 2019)

Teaching activities

Biology for restoration of cultural heritage (Master degree in Conservation and Restoration of Cultural Heritage, SUSCOR, University of Torino)

Plants in restoration ecology (Master degree in Environmental monitoring, protection and remediation, University of Torino)

Botanical and microbiological methodologies applied to cultural heritage (Master degree in Clinical, forensic chemistry and doping control, University of Torino)

Ecology of biodeterioration and & related control strategies for the conservation of Cultural Heritage (Master degree in Environmental biology; University of Torino)

Lichenology (Graduate degree in Natural Sciences, University of Torino)

Member of the PhD School ‘Technologies for Cultural Heritage’ (since Oct 2021)

Member of the PhD School ‘Biology and Applied Biotechnology’ (Oct 2020-Sep-2021)

SEFL was tutor/co-tutor for 3 PhD thesis and 28 Graduation and Master’s theses (since a.y. 2005-2006)

In 2017 he carried out didactic activities for the Master “Biology for the knowledge and conservation of cultural heritage” (University of Roma Tre) and in the framework of the international cooperative project ““Interdisciplinary training in conservation of cultural heritage (Code EJE CH 096 1)“ (PMSP Palestinian Municipality Support Program).

Research interests

Since 2002, SEFL develops research activities on the biodeterioration of stone materials of Cultural Heritage interest and of pathogenic minerals as asbestos, mainly focusing on lichens and microcolonial fungi. Further research topics are plant & lichen diversity and substrate ecology in alpine and polar environments. He participated in local (CRT, Ateneo-Compagnia di SanPaolo, Regione Piemonte), national (PRIN, PNRA), and international (INTERREG, COST) projects. Since 2007, he is curator of the Lichen-Petrographic Section of Herbarium TO. Since 2012, SEFL is the coordinator of the Working Group for Cultural Heritage of the Italian Lichen Society (the former WG 'Biology'). In this role, he coordinates the project "Adopt a Monument", started with the support of ISCR (Istituto Superiore per la Conservazione e il Restauro, Roma) and developed in collaboration with local offices pertaining to the Italian Ministry of Cultural Heritage (in particular, Poli Museali and Soprintendenze of Piemonte, Lombardia, Liguria and the Gallerie degli Uffizi, Firenze). Since 2016, he carries out research activities on lichens and biofilms on the rock drawings in Valcamonica (UNESCO site n. 94). His research activities also dealt with other UNESCO sites, including Pompeii, the Savoy Residences in Torino (Italy), Pasargadae and Persepolis (Iran). In 2009, he attended the XXIV Italian Antarctic Expedition.

Ongoing funded projects

(2021-2023) - FCRT (call 2021). 'Digitalizzazione dell'Erbario di Torino, macchina del tempo per esplorare le biorisorse vegetali e i cambiamenti ambientali nel territorio piemontese-valdostano' (HERB-TO-CHANGE) [principal investigator]

(2020-2022) - POR FSE 2014-2020 Asse A (Regione Toscana) "Biorimedi per il controllo di licheni e biofilm sui beni culturali lapidei (BIOCONCULTURA)" (PI prof. Loppi, University of Siena) [participant]

(2019-2023) - Horizon 2020-Marie Curie-RISE 2019-2022 (Call H2020-MSCA-RISE-2018). "BEyond ARCHAEOlogy: an advanced approach linking East to West through science, field archaeology, interactive museum experiences" (PI prof. Baricco, UniTO) [member of management team, task leader T2.5 & T3.4]

Scientific society membership and editorial activities

He is Secretary of the Italian Lichen Society (since 2017; member since 2002), and member of the International Association of Lichenology (IAL) and of the International Serpentine Ecology Society (ISES). He is also member of the scientific committee of the "Centro Interdipartimentale Scansetti per lo Studio degli Amianti ed Altri Particolati nocivi" of the University of Torino.

Since 2005, he is member of the Editorial Board of the *Notiziario della Società Lichenologica Italiana* (ISSN 1121-9165). He has served as reviewer for more than 25 ISI journals.

Publications on ISI journals (n=55) [WoS/Scopus: h-index 18/19, total citations 898/957]

*, corresponding author; #, paper focused on biodeterioration of cultural heritage

i) Favero-Longo S.E., Isocrono D., Piervittori R. (2004). Lichens and ultramafic rocks: a review. *LICHENOLOGIST*, vol. 36(6), p. 391-404, ISSN: 0024-2829, doi: DOI:10.1017/S0024282904014215 [I.F.2004 0,734].

ii) Favero-Longo S.E., Turci F., Tomatis M., Castelli D., Bonfante P., Hochella M. F., Piervittori R., Fubini B. (2005). Chrysotile asbestos is progressively converted into a non-fibrous amorphous material by the chelating action of lichen metabolites. *JOURNAL OF ENVIRONMENTAL MONITORING*, vol. 7(8), p. 764-766, ISSN: 1464-0325, doi: 10.1039/b507569f [I.F.2005 1,578].

- iii) Favero-Longo S.E., Castelli D., Salvadori O., Belluso E., Piervittori R. (2005). Pedogenetic action of the lichens *Lecidea atrobrunnea*, *Rhizocarpon geographicum* gr. and *Sporastatia testudinea* on serpentinized ultramafic rocks in an alpine environment. *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*, vol. 56(1), p. 17-27, ISSN: 0964-8305, doi: 10.1016/j.ibiod.2004.11.006 [I.F.2005 1,209].
- iv) Favero-Longo S.E., Siniscalco C., Piervittori R. (2006). Plant and lichen colonization in an asbestos mine: spontaneous bioattenuation limits air dispersion of fibres. *PLANT BIOSYSTEMS*, vol. 140(2), p. 190-205, ISSN: 1126-3504, doi: 10.1080/11263500600756546 [I.F.2006 0,649].
- v) Turci F., Favero-Longo S.E., Tomatis M., Martra G., Castelli D., Piervittori R., Fubini B. (2007). A biomimetic approach to the chemical inactivation of chrysotile fibres by lichen metabolites. *CHEMISTRY-A EUROPEAN JOURNAL*, vol. 13(14), p. 4081-4093, ISSN: 0947-6539, doi: 10.1002/chem.200600991 [I.F.2007 5,330].
- vi) Favero-Longo S.E., Girlanda M., Honegger R., Fubini B., Piervittori R. (2007). Interactions of sterile-cultured lichen-forming ascomycetes with asbestos fibres. *MYCOLOGICAL RESEARCH*, vol. 111(4), p. 473-481, ISSN: 0953-7562, doi: 10.1016/j.mycres.2007.01.013 [I.F.2007 1,861].
- vii) Piervittori R, Favero Longo S.E., Gazzano C (2009). Lichens and biodeterioration of stonework: a review. *CHIMICA OGGI-CHEMISTRY TODAY*, vol. 27, p. 8-11, ISSN: 0392-839X [I.F.2009 0,483].
- viii) Gazzano C., Favero-Longo S.E., Matteucci E., Roccardi A., Piervittori R. (2009). Index of Lichen Potential Biodeteriogenic Activity (LPBA): A tentative tool to evaluate the lichen impact on stonework. *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*, vol. 63(7), p. 836-843, ISSN: 0964-8305, doi: 10.1016/j.ibiod.2009.05.006 [I.F.2009 2,252].
- ix) Girlanda M., Favero-Longo S.E., Lazzari A., Segreto R., Perotto S., Siniscalco C. (2009). Indigenous microfungi and plants reduce soil nonylphenol contamination and stimulate resident microfungual communities. *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*, vol. 82(2), p. 359-370, ISSN: 0175-7598, doi: 10.1007/s00253-008-1832-4 [I.F.2009 2,896].
- x) Favero-Longo S.E., Turci F., Tomatis M., Compagnoni R., Piervittori R., Fubini B. (2009). The effect of weathering on ecopersistence, reactivity, and potential toxicity of naturally occurring asbestos and asbestiform minerals. *JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH. PART A*, vol. 72(5), p. 305-314, ISSN: 1528-7394, doi: 10.1080/15287390802529864 [I.F.2009 1,724].
- xi) Favero-Longo S.E. *, Matteucci E., Siniscalco C. (2009). Plant colonization limits dispersion in the air of asbestos fibers in an abandoned asbestos mine. *NORTHEASTERN NATURALIST*, vol. 16(Special Issue 5), p. 163-177, ISSN: 1092-6194 [I.F.2009 0,500].
- xii) Gazzano C., Favero-Longo S.E., Matteucci E., Piervittori R. (2009). Image analysis for measuring lichen colonization on and within stonework. *LICHENOLOGIST*, vol. 41(3), p. 299-313, ISSN: 0024-2829, doi: 10.1017/S0024282909008366 [I.F.2009 1,222].
- xiii) Favero-Longo S.E., Castelli D., Fubini B., Piervittori R. (2009). Lichens on asbestos-cement roofs: Bioweathering and biocovering effects. *JOURNAL OF HAZARDOUS MATERIALS*, vol. 162(2-3), p. 1300-1308, ISSN: 0304-3894, doi: 10.1016/j.jhazmat.2008.06.060 [I.F.2009 4,144 #].
- xiv) Favero-Longo S.E., Piervittori R. (2009). Measuring the biodiversity of saxicolous lichens above timberline with reference to environmental factors: the case-study of a Natura 2000 site of western Alps. *PHYTOCOENOLOGIA*, vol. 39(1), p. 51-78 , ISSN: 0340-269X, doi: 10.1127/0340-269X/2009/0039-0051 [I.F.2009 0,674].
- xv) Favero-Longo S.E., Borghi A., Tretiach M., Piervittori R. (2009). In vitro receptivity of carbonate rocks to endolithic lichen-forming aposymbionts. *MYCOLOGICAL RESEARCH*, vol. 113(10), p. 1216-1227, ISSN: 0953-7562, doi: 10.1016/j.mycres.2009.08.006 [I.F.2009 2,921].
- xvi) Favero-Longo S.E., Piervittori R. (2010). Lichen-plant interactions. *JOURNAL OF PLANT*

INTERACTIONS, vol. 5(3), p. 163-177, ISSN: 1742-9145, doi: 10.1080/17429145.2010.492917 [I.F.2010 0,889].

- xvii) Thüs H., Muggia L., Pérez-Ortega S., Favero-Longo S.E., Joneson S., O'Brien H., Nelsen M.P., Duque-Thüs R., Grube M., Friedl T., Brodie J., Andrew C.J., Lücking R., Lutzoni F., Gueidan C. (2011). Revisiting photobiont diversity in the lichen family Verrucariaceae (Ascomycota). *EUROPEAN JOURNAL OF PHYCOLOGY*, vol. 46(4), p. 399-415, ISSN: 0967-0262, doi: 10.1080/09670262.2011.629788 [I.F.2011 1,828].
- xviii) Favero Longo S.E., Gazzano C, Girlanda M, Castelli D, Tretiach M, Baiocchi C, Piervittori R (2011). Physical and chemical deterioration of silicate and carbonate rocks by meristematic microcolonial fungi and endolithic lichens (Chaetothrymiomycetidae). *GEOMICROBIOLOGY JOURNAL*, vol. 28, p. 732-744, ISSN: 0149-0451, doi: 10.1080/01490451.2010.517696 [I.F.2011 2,017].
- xix) Favero-Longo S.E. *, Cannone N., Worland M.R., Convey P., Piervittori R., Guglielmin M. (2011). Changes in lichen diversity and community structure with fur seal population increase on Signy Island, South Orkney Islands. *ANTARCTIC SCIENCE*, vol. 23(1), p. 65-77, ISSN: 0954-1020, doi: 10.1017/S0954102010000684 [I.F.2011 1.556].
- xx) Favero-Longo S.E. *, Piervittori R. (2012). Cultivation of isidia and transplantation of adult thalli of *Xanthoparmelia tinctoria* in an abandoned asbestos mine. *LICHENOLOGIST*, vol. 44(6), p. 840-844, ISSN: 0024-2829, doi: 10.1017/S0024282912000485 [I.F.2012 1.135].
- xxi) Favero-Longo S.E. *, Worland M.R., Convey P., Lewis-Smith R.I., Piervittori R., Guglielmin M., Cannone N. (2012). Primary succession of lichen and bryophyte communities following glacial recession on Signy Island, South Orkney Islands, Maritime Antarctic. *ANTARCTIC SCIENCE*, vol. 24(4), p. 323-336, ISSN: 0954-1020, doi: 10.1017/S0954102012000120 [I.F.2012 1.630].
- xxii) Gazzano C, Favero Longo S.E.* , Iacomussi P, Piervittori R (2013). Biocidal effect of lichen secondary metabolites against rock-dwelling microcolonial fungi, cyanobacteria and green algae. *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*, 84, 300-306, ISSN: 0964-8305, doi: dx.doi.org/10.1016/j.ibiod.2012.05.033 [I.F.2013 2.235].
- xxiii) Favero Longo S.E.* , Turci F, Fubini B, Castelli D, Piervittori R (2013). Lichen deterioration of asbestos and asbestiform minerals of serpentinite rocks in Western Alps. *INTERNATIONAL BIODETERIORATION & BIODEGRADATION*, 84, 342-350, ISSN: 0964-8305, doi: dx.doi.org/10.1016/j.ibiod.2012.07.018 [I.F.2013 2.235].
- xxiv) Matteucci E., Nascimbene J., Favero-Longo S.E., Isocrone D. (2013) New and noteworthy lichens from the Western Italian Alps. *ACTA BOTANICA GALLICA*, 160, 259-267, ISSN: 1253-8078, doi: 10.1080/12538078.2013.835281 [I.F.2013 0.235].
- xxv) Borghi A., d'Atri A., Martire L., Castelli D., Costa E., Dino G., Favero-Longo S.E., Ferrando S., Gallo M., Giardino M., Groppo C., Piervittori R., Rolfo F., Rossetti P., Vaggelli G. (2014). Fragments of the Western Alpine Chain as Historic Ornamental Stones in Turin (Italy): Enhancement of Urban Geological Heritage through Geotourism. *GEOHERITAGE*, 6, 41-45, ISSN: 1867-2477, doi: 10.1007/s12371-013-0091-7 [I.F.2014 0.897].
- xxvi) Favero-Longo S.E. *, Sandrone S., Matteucci E., Appolonia L., Piervittori R. (2014). Spores of lichen-forming fungi in the myco-aerosol and their relationships with climate factors. *SCIENCE OF THE TOTAL ENVIRONMENT*, 466-467, 26-33, ISSN: 0048-9697, 10.1016/j.scitotenv.2013.06.057 [I.F.2014 4.099, #].
- xxvii) Rolfo F., Benna P., Cadoppi P., Castelli D., Favero-Longo S.E., Giardino M., Balestro G., Belluso E., Borghi A., Cámara F., Compagnoni R., Ferrando S., Festa A., Forno M.G., Giacometti F., Gianotti F., Groppo C., Lombardo B., Mosca P., Perrone G., Piervittori R., Rebay G., Rossetti P. (2015). The Monviso Massif and the Cottian Alps as symbols of the Alpine Chain and Geological Heritage in Piemonte, Italy. *GEOHERITAGE*, 7, 65-84, ISSN: 1867-2477, doi: 10.1007/s12371-014-0097-9 [I.F. 2015 1.045].
- xxviii) Favero-Longo S.E. *, Matteucci E., Morando M., Rolfo F., Harris T., Piervittori R. (2015). Metals and

secondary metabolites in saxicolous lichen communities on ultramafic and non-ultramafic rocks of the Western Italian Alps. AUSTRALIAN JOURNAL OF BOTANY, 63, 276-291, ISSN: 0067-1924, doi: 10.1071/BT14256 [I.F.2014 1.355].

- xxix) Favero-Longo, S.E.*, Accattino, E., Matteucci, E., Borghi, A., & Piervittori, R. (2015). Weakening of gneiss surfaces colonized by endolithic lichens in the temperate climate area of northwest Italy. EARTH SURFACE PROCESSES AND LANDFORMS, 15, 2000-2012, ISSN: 0197-9337, 10.1002/esp.3774 [I.F. 2015 3.505].
- xxx) Cannone, N., Guglielmin, M., Convey, P., Worland, M.R., & Favero-Longo, S.E. (2016). Vascular plant changes in extreme environments: effects of multiple drivers. CLIMATIC CHANGE, 134, 651-665, ISSN: 0165-0009, doi: 10.1007/s10584-015-1551-7 [I.F. 2016 3.496].
- xxxii) Turci F., Favero-Longo S.E., Gazzano C., Tomatis M., Gentile L., Bergamini M. (2016). Assessment of asbestos exposure during a simulated agricultural activity in the proximity of the former asbestos mine of Balangero, Italy. JOURNAL OF HAZARDOUS MATERIALS 308, 321-327, ISSN: 0304-3894, doi: 10.1016/j.jhazmat.2016.01.056 [I.F. 2016 6.065 #].
- xxxiii) Marques J., Gonçalves J., Oliveira C., Favero-Longo S.E., Paz-Bermúdez G., Almeida R., Prieto B. (2016). On the dual nature of lichen-induced rock surface weathering in contrasting micro-environments. ECOLOGY, 97, 2844-2857, ISSN: 0012-9658, doi: 10.1002/ecy.1525 [I.F. 2016 4.809].
- xxxiiii) Sohrabi M., Favero-Longo S.E., Perez-Ortega S., Ascaso C., Haghghat Z., Hassan Talebian M., Fadaei H., de los Ríos A. (2017) Lichen colonization and associated deterioration processes in Pasargadae, UNESCO world heritage site, Iran. INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 117, 171-182, ISSN: 0964-8305, doi: 10.1016/j.ibiod.2016.12.012 [I.F. 2017 3.562].
- xxxv) Morando M., Favero-Longo S.E.*, Carrer M., Matteucci E., Nascimbene J., Sandrone S., Appolonia L., Piervittori R. (2017). Dispersal patterns of meiospores shape population spatial structure of saxicolous lichens. LICHENOLOGIST, 49, 397-413, ISSN: 0024-2829, doi: 10.1017/S0024282917000184 [I.F. 2017 1.865].
- xxxvi) Morando M., Wilhelm K., Matteucci E., Martire L., Piervittori R., Viles H. A., Favero-Longo S.E.* (2017). The influence of structural organization of epilithic and endolithic lichens on limestone weathering. EARTH SURFACE PROCESSES & LANDFORMS, 42: 1666-1679, ISSN: 0197-9337, doi: 10.1002/esp.4118 [I.F. 2017 3.722].
- xxxvii) Matteucci, E., Occhipinti, A., Piervittori, R., Maffei, M. E., & Favero-Longo, S.E.* (2017) Morphological, Secondary Metabolite and ITS (rDNA) Variability within usnic acid-containing lichen thalli of Xanthoparmelia explored at the local scale of rock outcrop in W-Alps. CHEMISTRY & BIODIVERSITY, 14, e1600483, ISSN: 1612-1872, doi: 10.1002/cbdv.201600483 [I.F. 2017 1.617].
- xxxviii) Favero-Longo S.E.*, Benesperi R., Bertuzzi S., Bianchi E., Buffa G., Giordani P., Loppi S., Malaspina P., Matteucci E., Paoli L., Ravera S., Roccardi A., Segimiro A., Vannini A. (2017). Species- and site-specific efficacy of commercial biocides and application solvents against lichens. INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 123, 127-137, ISSN: 0964-8305, doi: 10.1016/j.ibiod.2017.06.009 [I.F. 2017 3.562].
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- xl ii) Tonon C., Favero-Longo S.E.*, Matteucci E., Piervittori R., Croveri P., Appolonia L., Meirano V., Serino M., Elia D. (2019). Microenvironmental features drive the distribution of lichens in the House of the Ancient Hunt, Pompeii, Italy. *INTERNATIONAL BIODETERIORATION & BIODEGRADATION* 136:71-81, ISSN: 0964-8305, doi: 10.1016/j.ibiod.2018.10.012 [I.F. 2019 4.074]
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- xl v) Morando, M., Matteucci, E., Nascimbene, J., Borghi, A., Piervittori, R., & Favero-Longo, S.E.* (2019). Effectiveness of aerobiological dispersal and microenvironmental requirements together influence spatial colonization patterns of lichen species on the stone cultural heritage. *Science of the Total Environment*, 685, 1066-1074, doi.org/10.1016/j.scitotenv.2019.06.238 [I.F.2019 6.551#]
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SEFL is also author of 29 papers published on non-ISI journals and congress proceedings, and of 6 book chapters.

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