

Silvia Assini was born in Valenza (AL) in 1969. She graduated in Natural Sciences with a score of 110/110 and Honors in 1993 at the University of Pavia. In 1994, she began his PhD activity at the ex-Institute of Botany of the University of Pavia (currently Department of Earth and Environmental Sciences). He received the Ph.D. in Geobotany in 1998. Since 2005, she is University Researcher in Environmental and Applied Botany at the Department of Earth and Environmental Sciences of the University of Pavia.

Her research activity focuses on the following topics:

- a) **Vegetation science:** The subject of the research is the flora and vegetation (vascular and cryptogamic) of the Po Valley and the Northern Apennines, with syntaxonomic, synchorological, synecological and syndinamic approach. These approaches are useful for a well management (exotic species, pasture, mowing, mechanical disturbance, monitoring, etc.), with a view to conservation, enhancement and monitoring of biodiversity, with particular reference to the European Habitats Directive. This research line also includes the study of the performance (phenology) of native wild species planted in gardens and urban green spaces, in order to strengthen plant biodiversity in these areas.
- b) **Restoration ecology:** This line of research is dedicated to the experimentation of requalification / restoration of degraded sites subjected to strong anthropogenic pressures or not. In particular, introductions / reinforcements of several plant species are being tested, wooded patches with a naturalistic approach and restoration of the Habitat 2330 European Directive. The methodological references adopted include: guidelines for translocation of spontaneous plant species of the Ministry of the Environment, the method of serial vegetation patches, the standard methods of Society of Ecological Restoration. All interventions are monitored for at least 10 years with the data collection about the performance of the individual species introduced and synecological data.
- c) **Biodiversity & Informatics:** Multidisciplinary research line, powered by the use of informatic tools and image processing methods to analyze botanical data and propose useful indicators to support sustainable forest conservation and environmental conservation strategies.

These research activities led to the publication of:

- 23 Chapters / Boxes of books
- 48 Magazine articles
- 28 Contributions to conferences

They also led to the awarding of two awards, BEST PAPER AWARD IARIA (International Academy, Research, and Industry Association) as part of BIONATURE 2015 (The Sixth International Conference on Bioenvironment, Biodiversity and Renewable Energies, held in Rome, Italy – May 24-29, 2015) and as part of BIONATURE 2016 (The Seventh International Conference on Bioenvironment, Biodiversity and Renewable Energies, held in Lisbon, Portugal – June 26-30, 2016).

Silvia Assini has participated in numerous national research projects, contributing not only to scientific activity, but also to management and coordination. Silvia Assini is a member of the Editorial Board of Plant Sociology (formerly Phytosociology). From April 2015 to April 2018 she was President of the Network of Botanical Gardens of Lombardy. Since 2016 she is Secretary-Treasurer of the Italian Society of Vegetation Science (S.I.S.V.).