



Bruno Enrico Cerabolini

 UNIVERSITY OF INSUBRIA



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Contact data

Associate Professor

Department of Structural and Functional Biology

Via H.J. Dunant, 3 -21100 Varese Italy

Tel: +39-0332-421536

Fax: +39-0332-421554

E-mail: bruno.cerabolini@uninsubria.it

Biography

Graduated in 1986 with a degree in Natural Science at the University of Milan (Italy). Between 1986 and 1993 he taught science and geography in high school, undertook scientific and professional collaborations with the University and the Natural History Museum of Milan on floristic, vegetation and conservation issues. In the same period (1986-93) he worked as an expert on environmental impact evaluation (quarries, dams, hydroelectric plants, power lines etc.) and on analysis and management of vegetation of protect areas and on environment plans of urban areas and wasteland. In 1994 he became an Assistant Professor at the University of Insubria where he independently developed research lines and international collaborations, focusing on morphological and functional traits and strategies of plants for the purpose of interpreting vegetation processes. Experience acquired on the reproductive traits of Italian native plants and on ex-situ reproduction allowed him to promote the Center for Native Plants founded by the Lombardy Regional Administration, of which he is now the scientific supervisor. He has been and is responsible of operative units concerning projects founded by the EU (Interegg Project II – Protected Transborder Landscape, LIFE2000NAT/IT/7258) or by local administrations (Regional and Provincial Administrations, Natural Parks) for habitat conservation and the ex-situ reproduction of native plant species; he has been part of operative units of projects founded by MIUR (COFIN 1998, 2001 and 2002). In January 2004 he became Associate Professor of Environmental and Applied Botany and in March 2005 at the University of Insubria.

Qualifications and awards

Associate professor of Environmental and Applied Ecology
Scientific supervisor of “Native Flora Center” of Lombardy Regional Government

Member of the PhD school “Analysis, Conservation and Management of Biodiversity”

Research interests

Bioclimate modelling for potential vegetation interpretation

Ecosystem functions in relation pollutants and carbon cycling

Plant communities analysis (biogeography and phytosociology of dry

grasslands, heathlands and woodlands)

Plant functional types and strategies for communities interpretation

Reproductive biology and seed germination of native plants

Conservation, cultivation and restocking of native plants

Molecular analysis for population discrimination of native plants

Teaching experience and appointments

Systematic Botany (5 cfu) since 1998/99
Environmental and Applied Botany (6cfu) since 1998/99
Applied Plant Ecology (5cfu) since 2003/2004
Laboratory of quantitative ecology (2,5 cfu)
Ecology of wetlands (1,5 cfu)
Environmental data sampling techniques (1cfu)
Bioindicators (1cfu)

Representative publications

Cornelissen H.C., Perez-Harguindeguy N., Diaz S., Grime J.Ph., Marzano B., Cabido M., Vendramini F., Cerabolini B. (1999) - Leaf structure and defence control litter decomposition rate across species, life forms and continents. - *New Phytologist* 143 (1):191-200

Tettamanti C., Cerabolini B., Gerola P.D., Conti A. (2000) – Melatonin identification in Medicinal Plants. - *Acta Phytotherapeutica*, vol.III n.3: 137-144

Caccianiga M., Andreis C., Cerabolini B. (2001) Vegetation and environmental factors during primary succession on glacier forelands: some outlines from the Italian Alps. - *Plant Biosystems*, 135(3):295-310

Cornelissen J.H.C, Aerts R., Cerabolini B., Werger M.J.A., Ven Der Heijden M.G.A.(2001) - Carbon cycling traits of plant species are linked with mycorrhizal strategy. - *Oecologia*, 129:611-619

Cerabolini B., Ceriani R.M., Caccianiga M., De Andreis R., Raimondi B. (2003) - Seed size and shape and persistence in soil: a test on Italian flora from Alps to Mediterranean coasts. - *Seed Science Research* 13: 75-85

Di Guardo A., Zaccara S., Cerabolini B., Acciarri M., Terzaghi G., Calamari D. (2003) – Conifer needles as passive biomonitors of the spatial and temporal distribution of DDT from point source. – *Chemosphere*, 52/5: 789-797

Cornelissen, J.H.C., Cerabolini, B., Castro-Díez, P., Villar Salvador, P., Montserrat-Martí, G., Puyravaud, J.P., Maestro, M., Werger, M.J.A. & Aerts, R. (2003) - Functional traits of woody plants: correspondence of species rankings between field adults and laboratory-grown seedlings? - *Journal of Vegetation Science*, 14(3): 311-322

Cerabolini B., De Andreis R., Ceriani R.M., Pierce S., Raimondi B. (2004) - Seed germination and conservation of endangered species from the Italian Alps: *Physoplexis comosa* and *Primula glaucescens* – *Biological Conservation* 117: 351-356

Hodgson J.G., Montserrat-Marti G., Cerabolini B., Ceriani R.M., Maestro-Marti M., Peco B., P.J. Wilson P.J., Thompson K., Grime J.P., Band S.R., Bogard A., Castro-Diez P., Charles M., Jones G., Perez-Rontomè M.C., Caccianiga M., Alard D., Bakker J.P., Cornelissen J.H.C., Dutoit T., Grootjans A.P., Guerrero-Campo J., Gupta P.L., Hynd A., Kahmen S., Poschlod P., Romo-Diez A., Rorison I.H., Rosen E., Schreiber K.-F., Tallowinn J., de Torres Espuny L., Villar-Salvador P. (2005) - A functional method for classifying European grasslands for use in joint ecological and economic studies - *Basic and Applied Ecology*, 6: 119-131

Pierce S., Vianelli A., Cerabolini B. (2005) – From ancient genes to modern communities: the cellular stress and the evolution of plant strategies – *Functional Ecology*, 19: 763-776

Caccianiga M., Luzzaro A., Pierce S., Ceriani R.M. and Cerabolini B. (2005) – The functional basis of a primary succession resolved by CSR classification. - *Oikos* 000: 000-000 (in press)