



Curriculum vitae et studiorum – Marco Seminara

Marco Seminara was borne on December 4th, 1956 in Rome, where he lives. He has Italian citizenship, is married and has two sons.

At present, he is a Senior Researcher (Scientific disciplinary sector BIO/07) at Environmental Biology Department, Faculty of Science MM.FF.NN. at Università degli Studi di Roma «Sapienza».

Formation

He graduated in Biological Sciences on March 24th, 1982, 110/110 *cum laude*, at the same University, presenting a dissertation in the hydrobiological field. In 1984, following a two-years training, he obtained his national qualification to the Biologist profession practice.

Professional experience

- From 1982 to 1989 he participated as an external collaborator to several researches carried out by the Hydrobiological Group of “La Sapienza” University (first at the Zoology Institut F. Raffaele, then at the Department of Animal and Human Biology) on lacustrine and riverine ecosystems, temporary wetlands etc.;
- From 1990 onwards, he started his job as a Technician (VIII level) at the same university, continuing his participation and collaborating to planning and realization of relevant studies on aquatic communities (coastal and pelagic zooplankton, littoral and profundal zoobenthos) from main artificial and natural lakes of Central Italy (i.e. lakes Nemi, Albano, Vico, Bracciano, Martignano, Monterosi, Canterno, Campotosto, etc.); in this period he assumed the responsibility of all technical aspects of the scientific activities of the research team, both in the lab and in the field, also conceiving some sampling instruments then realized by companies specialized in scientific devices construction, and utilized in the collecting campaigns;
- From 2001 up to now, initially as Technician EP (High Competence) and then as Senior Researcher at Faculty of Science MM.FF.NN., Department of Environmental Biology, headed research projects on the ecology of wetlands, river and lake communities, water quality evaluation, managing, conservation and recovery of freshwater habitats, and endangered fish species.
- Main authorities sponsoring the above projects were: University of Rome; Ministry of University and Scientific Research; Province of Rome; Province of Latina; Comunità Montana Amiternina; Province of Frosinone; Latium Regional Administration; European Community (Project ROME; PIM, Integrated Mediterranean Plan); General Secretary of Italian Republic Presidency.
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External charges

Name of customer Agriconsulting S.p.a.	Hydrobiological Mission supporting the Italian Agricultural Mission in Venezuela for “the final evaluation phase of productive potentiality of some water courses of the coastal area and of riverine/lake basins of the Central Region”, aimed at the upgrading of professional artisanal fisheries and at the aquaculture development.
Soc. Coop. a r.l. A.GE.I. (Agricoltura e Gestione Ittica)	Consultant charges about: - Environmental impact evaluation and Minimal Vital Outflow coming from a dam building on



	<p>Torrente Misegna (Basilicata), Customer: Consorzio di Bonifica Bradano e Metaponto; - Environmental impact evaluation and Minimal Vital Outflow coming from a dam building on Torrente Salandrella (Basilicata), Customer: Consorzio di Bonifica Bradano e Metaponto; - Environmental impact evaluation and Minimal Vital Outflow coming from building of Highway pillars on River Dora Baltea, trait Courmayeur-Aosta; - Environmental impact evaluation and Minimal Vital Outflow coming from a dam building of Highway traits on Torrente Setta, Appennino Tosco-Emiliano.</p>
ACEA ATO2 SpA	<p>Management of Integrated Water Service Consulting charge on “Drainage system condition and depuration quality in the City of Rome, and consequences on River Tiber an tributaries water life”, conferred after fish kills in the urban trait of the river in 2003, coincident with “first-rain” significant events.</p>
Regione Lombardia - Fondazione Lombardia per l’Ambiente (FLA);	<p>Consulting charge about “Evaluation of water quality of Lombardy lakes water, based on their biotic components” inside the Project “Osservatorio dei Laghi Lombardi”</p>
Regione Lazio	<p>Appointment as a Component of Technical Scientific Committee for the Environment (Legge Regionale 18/11/1991), in the role of “water quality expert biologist” Decreto del Presidente della Regione Lazio n°75 del 3 marzo 2005</p>
COOP. ECOPRO A.R.L. CONSULENTI PER L’AMBIENTE - PROVINCIA DI FROSINONE FROSINONE - COOP. DI SERVIZI - PROVINCIA DI FROSINONE	<p>Consulting charge as a technical scientific supervisor in the project “<i>Indagine della qualità ambientale e dello stato di salute del Fiume Fibreno (Frosinone) attraverso lo studio della fauna ittica e macrobentonica: indicazioni per la gestione degli habitat e delle specie ittiche</i>”</p>
Riserva naturale regionale Bracciano-Martignano	<p>Consulting charge about “Preparation of conservation measures (Managing Plan) for the safeguard of Special Protection Zone (SPZ) <i>Comprensorio Bracciano-Martignano (IT6030085)</i>”, with a particular assignment for the hydrobiological study (updates of status, threats, conservation measures and interventions) of lake habitat and species of Community interest (Det. N° 56 del 15.03.2007)</p>



Riserva Naturale Lago di Posta Fibreno	Appointment as a Component of Technical Table of the Natural Reserve of Lago di Posta Fibreno, DGM n° 101 del 12.07.2008;
Reno De Medici S.p.A.	Consulting charge for an ecological study of Rio Fontanelle (River Liri basin, FR), related to the condition of anthropogenic alteration of river morphology and the deriving depletivo of self-depurative capacity.
Provincia di Latina – Fondazione Roffredo Caetani	Consulting charge for project, supervision and tecnica-scientific direction of “Progetto salvaguardia Salmonidi autoctoni Oasi di Ninfa - SIC IT6040002”

University Teaching

- From 1990 to 2001 collaborated to the Course of Hydrobiology and coordinated field and lab exercises, specific seminars, methodological deepening;
- From 2001 up to now has been charged of following courses in the Biological Sciences, Natural Sciences, Environmental Sciences, Marine Sciences Laureas:
Ecology of Water Systems (LT)
Hydrobiology (LT)
Management of lake and river resources (LT)
Management of marine resources (LT)
Conservation and management of marine resources (LM)
- At present, he holds the courses of:
Conservation, management and Ecology of water systems (LM Ecobiologia, 9 CFU)
Biodiversity of freshwater ecosystems (LM Ecobiologia, 6 CFU)

Marco Seminara is nowadays member of AIOL (Associazione Italiana di Oceanologia e Limnologia), SIL (Societas Internationalis Limnologiae Theoreticae et Applicatae), AIIAD (Associazione Italiana Ittiologi di Acque Dolci).

His scientific production consists of more than 60 printed papers on national and international reviews in the ecological and limnological field, and Congress participations in the same fields (es. UZI, StE, AIOL, AIIAD, CILEF, SIL, SEFS, etc.).

Some recent papers:

- Fabiani A., Gratton P., Zappes I. A., Seminara M., D’Orsi A., Sbordoni V. and Allegrucci G., 2017. Investigating the genetic structure of trout from the Garden of Ninfa (Central Italy): Suggestions for conservation and management. *Fisheries Management and Ecology*, DOI: 10.1111/fme.12259
- Lollobrigidi R., Procacciantè M., D’Orsi A., Seminara M., 2017. Feeding habits of *Salmo cettii* (Rafinesque, 1810) in Central Italy: studying a residual population of an endangered species using non-invasive methods. *It. J. Fresh. Ichthyol.* 4: 25-34.



- Seminara M., Vagaggini D., Stoch F., 2016. A comparison of Cladocera and Copepoda as indicators of hydroperiod length in Mediterranean ponds. *HYDROBIOLOGI A*, 782(1): 71-80.
- Seminara M., Vagaggini D., Stoch F., 2015. Long term monitoring of astatic water bodies: microcrustaceans as indicators of hydroperiod length in ponds and pools. *RENDICONTI LINCEI. SCIENZE FISICHE E NATURALI*, 26: 345-352.
- Seminara M., Vagaggini D., Stoch F., 2013. Monitoraggio a lungo termine e conservazione delle acque astatiche: i microcrostacei come bioindicatori funzionali dei cambiamenti del regime idrologico. In: *Il sistema ambientale della Tenuta Presidenziale di Castelporziano - Ricerche sulla complessità di un ecosistema forestale mediterraneo costiero*. Ed. Accademia Naz. Scienze detta dei XL, Scritti e Documenti Vol. XLVI (2), p. 313-327.
- Margaritora F.G., Seminara M., Vagaggini D., Ferrara O., Mastrantuono L., 2012. Nota sulle piscine naturali di Castelporziano. In: *Le zone umide. Il sistema ambientale della Tenuta Presidenziale di Castelporziano*. Ed. Accademia Naz. Scienze detta dei XL, Scritti e Documenti Vol. p. 65-67.
- Celletti C., Stoch F., Vagaggini D., Seminara M., 2011. Ruolo della comunità zooplanctonica come indicatore di durata dell'idroperiodo in ambienti astatici. *ATTI DELLA SOCIETÀ ITALIANA DI ECOLOGIA*, Vol. XXXIV, Atti XX Congresso SItE - Le Scienze Ecologiche oggi, Roma, p. 7.
- Seminara M., D'Orsi A., 2011. Recent changes in fish assemblages of a lentic-lotic system in Central Italy (Lake Posta Fibreno, Latium), with remarks on salmonids situation. *STUDI TARENTINI DI SCIENZE NATURALI*, 88: 37-44.
- D'Orsi A., Seminara M., 2010. Dati preliminari di abbondanza e distribuzione di *Salmo fibreni* Zerunian & Gandolfi 1990 nel bacino di Posta Fibreno (Italia Centrale): primo utilizzo del visual census. *STUDI TARENTINI DI SCIENZE NATURALI*, 87: 105-109.
- Seminara M., D'Orsi A., 2008. Cambiamenti recenti nel popolamento ittico del sistema idrologico del Fibreno: evidenze di un mutamento in atto. In: *AUTORI VARI. Atti della prima giornata di studio "Tutela e conservazione dell'ecosistema acquatico Lago di Posta Fibreno area SIC/ZPS IT6050015*. p. 159-173, ROMA: Regione Lazio, ISBN/ISSN: 978-88-95213-17-0
- Seminara M., Vagaggini D., Margaritora F.G., 2008. Differential responses of zooplankton assemblages to environmental variations in temporary and permanent ponds. *AQUATIC ECOLOGY*, vol. 42; p. 129-140.