Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	**Letizia / Marsili**
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E-mail	marsilil@unisi.it
Nationality	Italian
Date of birth	8 July 1965
Gender	Female

Desired employment / Occupational field

Work experience

Dates	01/07/2008 – onwards
Occupation or position held	Full time Graduate Technician
Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy
Type of business or sector	Public Research Organisation
Dates	01/09/2004 – 31/08/2007
Occupation or position held	Researcher in ecology/ecotoxicology. Scientific disciplinary sector BIO07
Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy

Type of business or sector	Public Research Organisation
Dates	01/07/2003 – 31/08/2004
Occupation or position held	Graduate Technician
Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy
Type of business or sector	Public Research Organisation
Dates	14/03/2000- 30/06/2003
Occupation or position held	Research fellow in ecotoxicology
Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy
Type of business or sector	Public Research Organisation
Dates	14/01/1999 – 13/03/2000
Occupation or position held	Graduate Technician
Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy
Type of business or sector	Public Research Organisation
Dates	01/01/1989- 13/01/1999
Occupation or position held	Research fellow in ecotoxicology

Main activities and responsibilities	Development and validation of non-lethal sampling tools to study marine mammals; Development and application of biomarkers of exposure and effects for environmental contaminants in marine mammals; Development and validation of fibroblast cell cultures of cetaceans as "in vitro" system to assess the interspecies and gender susceptibility of different cetaceans to different environmental contaminants; Development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in species "at risk"; Combined use of biomarkers and residue analysis to assess the environmental quality of marine, freshwater and terrestrial ecosystems; Use of reptiles to evaluate the impact of on-shore oil extraction areas; Use of crustaceans and fishes to evaluate the impact of off-shore oil extraction areas. - Collaboration in research projects funded by Italian Ministries and Private Companies - Teaching activity at the Faculty of Sciences, course degree in Environmental Sciences
Name and address of employer	Università degli Studi di Siena – Dipartimento di Scienze Ambientali "G. Sarfatti", via Mattioli, 4 53100 Siena, Italy
Type of business or sector	Public Research Organisation

Education and training

Dates	05/2000-04/2003
Title of qualification awarded	Research associate (Assegno di ricerca)
Principal subjects/occupational skills covered	Training on ecotoxicology of marine mammals
Name and type of organisation providing education and training	ICRAM - Rome
Dates	03/1996-02/1998
Title of qualification awarded	Post-PhD
Principal subjects/occupational skills covered	Thesis title: "Non destructive biomarkers to evaluate the health status of different species of marine mammals in the South-West Atlantic area".
Name and type of organisation providing education and training	University of Siena –Italy
Dates	1991-1994
Title of qualification awarded	PhD
Principal subjects/occupational skills covered	Thesis title: "Ecotoxicological and morphometric studies in different species of Mediterranean cetaceans".
Name and type of organisation providing education and training	University of Siena –Italy
Dates	1984-1988
Title of qualification awarded	University degree in Biological Sciences
Principal subjects/occupational skills covered	University studies on Biology with specialisation in batteriology Thesis title: "*Thiobacillus ferrooxidans*: biotechnology use in the bioconversion of sulphide minerals in the Southern Tuscany and effects of carbonate gangue".
Name and type of organisation providing education and training	University of Siena – Italy

Personal skills and competences

Mother tongue(s): Italian

Other language(s): English (Basic); French (Basic); Spanish (Basic)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user
French	B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1	Independent user

Spanish	A2	Basic user	B1	Independent user	A1	Basic user	A1	Basic user	A1	Basic user
Portuguese	A2	Basic user	B1	Independent user	A1	Basic user	A1	Basic user	A1	Basic user

(*) Common European Framework of Reference for Languages

Social skills and competences

-Team work: I have been working in a research team for several years, and at present I coordinate the work of several researchers.

-Mediating skills: I work on a sector that requires interaction among researchers, public administration, and private companies.

- Intercultural skills: I have as a single and as research group many contacts, collaborations and research projects with researchers coming from different European and non European countries. I have passed several months doing training in different foreign countries (Spain, Argentina, Mexico), interacting in a very positive way with people of other countries. Since 2003 I am member of the Scientific Committee of the International Whaling Commission (IWC) as Italian delegate. By Decree of 2 March 2007 of the Ministry of Environment and Protection of Land and Sea, I am appointed member of the Director Board of the Tuscan Archipelago National Park (PNAT)

Organisational skills and competences

In my research activity, I have been participating to several research projects with coordinating activities. I acquired competences in the management of the activities and of the personnel involved.

Technical skills and competences

My activity in the ecotoxicology sector allowed me to acquire competences on:
INNOVATIVE TECHNIQUES FOR ECOTOXICOLOGICAL INVESTIGATIONS ON MEDITERRANEAN CETACEANS: Evaluation of the "toxicological stress syndrome" in Mediterranean populations of cetaceans (*Stenella coeruleoalba, Grampus griseus, Tursiops truncatus, Delphinus delphis, Physetre catodon, Balaenoptera physalus*) through the use of innovative non-lethal methods applied to skin biopsy; study of gene expression (real-time PCR) and protein expression (western blotting, immunofluorescence). Development of innovative techniques for the "diagnosis" of interactions between xenobiotic contamination and *morbillivirus* infections.
BIOMARKERS IN THE EVALUATION OF TOXICOLOGICAL RISK OF INDUSTRIALISED AREAS: implementation of applicative protocols for the use of biomarkers in the evaluation of ecotoxicological risk in oil extraction areas. Experimental investigations, using laboratory organisms, (crustaceans and fish) and field bioindicators, (crustaceans, fish, reptiles, birds and small mammals) to develop and validate an integrated strategy (biomarkers and residue levels) of biomonitoring of terrestrial, freshwater and marine ecosystems related to onshore and offshore hydrocarbons extraction activities.
***NON DESTRUCTIVE BIOMARKERS* :** Development and validation of non invasive investigation techniques (non-destructive-biomarkers) for the study and the identification of species or populations “at risk”. Use of skin biopsies in marine mammals (cetaceans and pinnipeds) for the evaluation of contaminants levels (organochlorines, IPA, heavy metals) and biomarkers responses. Use of skin biopsy in *free ranging* species of cetaceans or marine reptiles (*Caretta caretta*) and fresh biological material (for example liver) in stranded cetaceans or or marine reptiles (*Caretta caretta*) dead from max 12h, and in pelagic fishes (*Thunnus thynnus thynnus* and *Xiphias gladius*) for cell cultures to assess the interspecies and gender susceptibility of different species to different environmental contaminants.
Statistical models: development of statistical models for the evaluation of toxicological hazard of organochlorines and polycyclic aromatic hydrocarbons in different species, including humans.

Computer skills and competences

Competent with most Microsoft Office programmes.

Driving licence

Driving licence type B (car)