

Monitoring of Mediterranean Marine Protected Areas (MMMPA) Initial Training Network
First Training Event

**PRINCIPLES OF EXPERIMENTAL DESIGN
APPLIED TO MARINE PROTECTED AREAS MANAGEMENT**

Marine Protected Area of Tavolara and Capo Coda Cavallo, Olbia - Italy
28 September - 7 October 2012

	Institutional activity & logistics		Complementary skills
	Experimental design course		MPAs issues

Day	Date	Time	Activity	Instructors
1	Fri, 28.9	All day	Arrival of participants	-
		20.00	Welcome dinner and icebreaking games	-
2	Sat, 29.9	8.30-12.30	MMMPA-ITN Individual Research Projects: presentations and discussion	ESRs/ERs
		14.30-16.00	MMMPA-ITN: The project, the partners	Cerrano
		16.00-18.00	Introduction to the experimental design course: Generalities & recalling basic elements of sampling theory	Ferretti
		21.30-22.30	Set up of teams and allocation of tasks	Milanese
3	Sun, 30.9	8.30-12.30	Introduction to experimental design and statistical tests of null hypothesis	Ferretti
		14.30-18.30	Introduction to practicals and to software R	Ferretti
		21.30-22.30	Being a PhD student/Being a scientists; A vision for your career	Milanese
4	Mon, 1.10	8.30-12.30	Simple comparisons of means of two populations	Ferretti
		14.30-18.30	Practicals	Ferretti
		21.30-22.30	Introduction to public surveys about MPAs	Milanese/Hogg
5	Tue, 2.10	8.30-10.30	Introduction to ANOVA and data transformations	Ferretti
		10.30-12.30	Fixed/random factors, nested/orthogonal factors, factorial experiments	Ferretti
		14.30-18.30	Practicals	Ferretti
		21.30-22.30	MPAs from the horse's mouth	Navone

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Day	Date	Time	Activity	Instructors
6	Wed, 3.10	8.30-20.00	Free day: excursion, study, joint activities and/or data analysis	-
		21.30-23.30	Scientific ethics: issues and debate	Milanese
7	Thu, 4.10	8.30-11.00	Introduction to multivariate analyses and comparison among methods	Mangialajo
		14.30-16.30	Designs to investigate putative effects of protection within MPAs	Guidetti/Ponti
		16.30-18.30	Practicals	Guidetti/Ponti
		21.00-22.30	Working in teams and time management	Milanese
8	Fri, 5.10	8.30-11.00	Covariates	Ferretti/Ponti
		11.00-12.30	Introduction to linear regression	Ferretti/Ponti
		14.30-18.30	Practicals, data analysis and discussion	Ferretti/Ponti
		21.30-22.30	Biodiversity at Tavolara - picture show	Trainito
9	Sat, 6.10	8.30-13.00	Experimental design set up and field activities on limpets and fish	Guidetti/Ponti
		14.30-18.30	Analysis and discussion of field data	Guidetti/Ponti
		21.00-23.00	Wrapping up: Survey; Scientific citizenship; Ethics and accountability; Basic project and time management	Milanese
10	Sun, 7.10	8.30-12.30	Protected species and laboratory identification	Cerrano
		14.00-17.00	Discussion and deliverables	Cerrano/Milanese
		Evening	Early departures	-
11	Mon, 8.10	All day	Late departures	-

Notes:

Lunch and dinner on day 11 are not included in the participation fee

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