

## Workshop program in detail

### Day 1—Saturday, 5 September

- 16:00 Arrival and Registration  
18:00 MSW 2009 Welcome Reception

### Day 2—Sunday, 6 September

- 9:00 Workshop Opening & Welcome

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**9:30 Keynote Lecture**  
**Genetic and genomic approaches to seagrass ecology**  
**Dr Gabriele Procaccini, Stazione Zoologica di Napoli, Italy**

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**10:30 Coffee Break**

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### Session I—From molecules to genomes

**Chair: Tatjana Bakran Petricioli**

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- 11:00 **Anita Marušić** Communication on natural sciences: Information on a Croatian marine biology journal “Acta Adriatica”
- 11:12 M. Greco, A. Chiappetta, L. Bruno, **M. Beatrice Bitonti** Under cadmium-induced stress PoCHROMOMETHYLASE gene is differentially expressed in plants of *Posidonia oceanica* (L.) Delile
- 11:24 **Emanuela Dattolo**, A. M. Innocenti, S. Mazzuca, A. Cavallini, L. Natali, G. Procaccini Differential gene expression profiling under different light conditions in *Posidonia oceanica* (L.) Delile by SSH analysis.
- 11:36 **Ilia Serra**, A.M. Innocenti, G. Di Maida, S. Calvo, M. Migliaccio, E. Zambianchi, C. Pizzigalli, S. Arnaud-Haond, C.M. Duarte, E. Serrao, G. Procaccini Genetic discontinuities within the Mediterranean basin. Post-glacial recolonization patterns and recent sea-currents regime in *Posidonia oceanica* L. Delile.
- 11:48 **Ludwig Triest**, T. Sierens Chloroplast sequences of a *Ruppia cirrhosa* species complex reveal new insights on regional diversity and dispersal in the Mediterranean.
- 12:00 **Claudio Vasapollo**, Dattolo E., Ferrara A., Patti F.P., Gambi M.C., Buia M.C., Procaccini G Does clonal diversity influences ecosystem structure and biodiversity? An approach with *Posidonia oceanica* system.
- 12:12 A. Rotini, L. Anello, M. Di Bernardo, A. Giallongo, **Luciana Migliore** Phenols content and 2-D electrophoresis protein pattern: an innovative “diagnostic” tool to monitor *Posidonia* meadows conservation status
- 12:24 **Silvia Nicastro**, Perrotta I., Brunelli E., Innocenti A.M. Adaptive response to salt stress in seagrass: PIP1;1 aquaporin antibody localization in *Posidonia oceanica* leaves.

- 12:36 **Maria Cristina Buia**, A. Ferrara, Riccardo-Rodolfo-Metalpa, Maurizio Lorenti, Jason M. Hall-Spencer Effects of seawater acidification on *Posidonia oceanica* system.
- 12:48 **Yassine Ramzi Sghaier**, R. Zakhama-Sraieb, F. Charfi-Cheikhrouha Primary production and biomass cycle of *Cymodocea nodosa* meadow in the Ghar El Melh lagoon (Tunisia).

**13:00 Lunch Break**

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**15:00 Workshop I**

**Assessment of the protection status of Mediterranean seagrasses**

**Coordinators: Alexandra Cunha, Gianna Casazza & Giuseppe Di Carlo**

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**Day 3—Monday, 7 September**

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**Session II—Seagrass and its associated fauna**

**Chair: Khalid Elkalay**

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- 9:00 **Joseph Borg**, A. Rowden, M. J. Attrill, P. J. Schembri, M. B. Jones Influence of seagrass epiphytes on macroinvertebrate assemblages associated with two bed types of the seagrass *Posidonia oceanica*.
- 9:12 **Ines Castejon-Silvo**, M. Dominguez, D. March, M. Palmer, B. Morales-Nin, J. Terrados Exploring the relationships among nutrient availability, epiphyte load, and the abundance of invertebrate grazers in *Posidonia oceanica* meadows.
- 9:24 **Karim Mezali**, V. Zupo, P. Francour, R. Semroud Optimal foraging by deposit - feeding holothurians inhabiting *Posidonia oceanica* meadows: Rule of particle size and organic coating.
- 9:36 **Barbara Mikac**, A. Travizi Polychaete fauna of *Cymodocea nodosa* meadow and *Caulerpa racemosa* settlement in Vrsar (Croatia, Northern Adriatic Sea).
- 9:48 **Karim Mezali**, V. Zupo, G. Paulay Species limits in Aspidochirotids holothurians (Holothuroidea: Echinodermata) inhabiting the *Posidonia oceanica* seagrass of Algerian area.
- 10:00 P. Prado, S. Pinna, **Simone Farina**, F. Tomas, G. Ceccherelli, J. Romero, T. Alcoverro Importance of spatial scale in sea urchin larval supply on two Mediterranean benthic communities.
- 10:12 **Salvatrice Vizzini**, M. Cigliano, V. A. Tumbarello, M. C. Gambi, A. Mazzola Borer polychaetes in seagrass sheaths: a shelter or a trophic relationship? Preliminary results based on carbon and nitrogen stable isotopes.

**10:30 Coffee Break**

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## Session III—Management & policy: why and how?

**Chair: Sven Beer**

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- 11:00 **Guillaume Bernard** Management and restoration strategy of the *Zostera* meadows in the Berre lagoon (France).
- 11:12 **Gianna Casazza**, C. Lopez y Royo Angiosperms use in the Mediterranean in response to environmental policies requirements.
- 11:24 **Alexandra Cunha**, J. Assis, E. Serrão Conservation Status of Portuguese Seagrasses: are seagrass habitats one of the most endangered marine habitats?
- 11:36 **Yasser Geneid** Seagrasses of the Saloum Bay, the first MPA along the Mediterranean coast of Egypt.
- 11:48 Mauro Lenzi, E. Franchi, P. Micarelli, **M. Volterrani**, R. Roffilli, F. Birardi, S. Focardi Impact of establishment of spontaneous unmanaged marina on a small shallow meadow of *Posidonia oceanica* (L.) Delile.
- 12:00 A. Cunha, **Diogo Paulo**, J. Boavida, S. Rodrigues, M. Fonseca Open ocean restoration of seagrasses.
- 12:12 **Rym Zakhama-Sraieb**, Y. Ramzi Sghaier, F. Charfi-Cheikhrouha Conservation of Mediterranean marine vegetation: Example of environmental education in Tunisia.
- 12:24 **Eleonora Manca**, Caceres I., Alsina J., Stratigaki V., Prinos P., Amos C., Thompson C. Effects of a *Posidonia* seagrass meadow on waves: Flume experiments at full scale.
- 12:36 **Yoni Sharon** J. Silva, R. Santos, J. Runcie, M. Chernihovsky, S. Beer Photosynthetic responses of *Halophila stipulacea* to a light gradient: Acclimation following transplantation.
- 12:48 **Giuseppe Di Carlo**, A. Djellouli, C.M. Duarte, H. Langar, G. Pergent, R. Semroud, S R Livingstone, C. Pergent- Martini, E. Ballesteros, G. Bitar, S. Benhissoune, S. El Asmi, A. Cuttelod, D. Abdul, F. T. Short Assessment of Mediterranean seagrasses under IUCN Red List Criteria—from global to regional

**13:00 Lunch Break**

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**15:00 Poster session I**

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## **Day 4—Tuesday, 8 September**

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**9:00 Keynote Lecture—Dr William Dennison, University of Maryland, USA**  
**Preaching beyond the choir: communicating global seagrass trajectories to affect change**

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## Session IV—Seagrass monitoring: achievements and future goals

Chair: Panos Panayotidis

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- 10:00 **Yelda Aktan-Turan**, S. El Asmi, A. C. Gucu, G. Pergent, C. Pergent-Martini Setting up the MedPosidonia program along the Turkish coasts.
- 10:12 **Aslam Djellouli**, S. El Asmi, H. Langar, G. Pergent, C. Pergent-Martini Setting up the MedPosidonia program along Tunisian coasts.
- 10:30 Coffee Break**
- 11:00 **Marina Bonacorsi**, P. Clabaut, C. Labbé, C. Lafabrie, V. Pasqualini, G. Pergent, C. Pergent-Martini, M. Salivas-Decaux Implementation of a georeferenced data bank of Corsican coastline.
- 11:12 **Gérard Pergent**, C. Pergent-Martini, B. Mimault Setting up of the *Posidonia* Monitoring Network along Corsican coastline.
- 11:24 **Maria Adelaide Ferreira**, F. Andrade Monitoring an eelgrass meadow (*Zostera* spp.) using oblique large-scale photography (Sado Estuary, Portugal).
- 11:36 R. Leonardini, C. F. Boudouresque, S. El Asmi, A. Gannoun, G. Pergent, **Christine Pergent-Martini** State of knowledge on the geographical distribution of seagrasses in the Mediterranean Sea.
- 11:48 **Sylvie Gobert**, S. Sartoretto, V. Rico-Raimondino, B. Andral, A. Chery, P. Lejeune, P. Boissery Ecological status assessment of Mediterranean French coastal waters with a *Posidonia oceanica* index established for the Water Framework Directive: *Posidonia oceanica* Rapid Easy Index (PREI).
- 12:00 **Cecilia Lopez y Royo**, G. Casazza, G. Pergent Development and application of a Biotic Index using *Posidonia oceanica* (BiPo) to evaluate ecological status of North-western Mediterranean meadows.
- 12:12 **Melita Mokos**, C. Kruschel, S. T. Schultz Increases in seagrass cover are paralleled by decreases in benthic slope along DGPS- and depth tracked video monitoring transects in a Central Adriatic embayment.
- 12:24 **Monica Montefalcone**, A. Rovere, V. Parravicini, G. Albertelli, C. Morri, C. Nike Bianchi Mapping seagrass with acoustic techniques: efficiency in the diachronic cartography.
- 12:36 **Salvatrice Vizzini**, G. Di Maida, M. Pirrotta, A. Tomasello, C. Tramati, V. A. Tumbarello, A. Mazzola, S. Calvo Registration of past massive submarine outgassing events in *Posidonia oceanica* L. (Delile) through stable carbon isotopes
- 12:48 **Fred Short**, G. Pergent SeagrassNet Monitoring Adapted for the Mediterranean.
- 13:00 Lunch Break**

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**15:00 Workshop II**  
**Standardisation of seagrass mapping and monitoring approaches in the Mediterranean (Organised by RAC/SPA)**  
**Coordinators: Gérard Pergent and Souha El Asmi**

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***Day 5—Wednesday, 9 September***

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**9:00 Keynote Lecture—Dr Sven Beer, Tel Aviv University, Israel**  
**How seagrasses cope with high irradiances: some case studies**

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**Session V—Seagrass physiology**

**Chair: Rui Santos**

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9:48 João Silva, I. Barrote, R. Santos Quantum use efficiency by the intertidal seagrass *Zostera noltii*.

10:00 Eugenia Apostolaki, M. Holmer, N. Marbà, I. Karakassis Phosphorus cycling in Mediterranean seagrass (*Posidonia oceanica*) meadows.

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**10:12 Round Table—IUCN Red List assessment of seagrasses, from global to regional: a focus on Mediterranean seagrasses and their regional status**  
**Coordinators: Fred Short, Christine Pergent-Martini & Giuseppe Di Carlo**

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**10:30 Coffee Break**

11:00 *Round table continued*

12:00 Mediterranean Seagrass Association Meeting

**13:00 Lunch Break**

14:30 MSW Wrap up and Closure

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**15:00 Poster session II**

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**19:00 MSW 2009 Dinner**

***Day 6—Thursday, 10 September***

9:00 Field trip to Hvar Island

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## List of Posters

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### Session I

- A. Alagna**, F. Badalamenti, G. D'Anna, G. Di Carlo, A. Terlizzi: The natural recovery of *Posidonia oceanica* after physical disturbance: assessing vegetative fragments substrate preference.
- W. Champenois, B. Delille, J.M. Beckers, M. Grégoire, **A.V. Borges**: First two years of results from a mooring over a *Posidonia oceanica* seagrass meadow (Corsica, France).
- A. Gera**, T. Alcoverro, O. Mascaró, M. Pérez, J. Romero: Seagrass chlorophyll fluorescence as a bioindicator of anthropogenic impact in coastal waters.
- C. Micheli**, Cupido R., Lombardi C., Peirano A.: Differences in *Posidonia oceanica* meadow of Monterosso a Mare (NW Mediterranean Sea) ten years later.
- Nurra N., **Belci F.**, Mussat Sartor R., Pessani D.: Meadows assessment and biodiversity: mollusks community in *Posidonia oceanica* beds.
- G. Ardizzone**, A. Belluscio, P. Barani, M. Sclavo: Field dynamics of *Posidonia oceanica* beds and its role of defence structure for beaches.
- G. Roca**, T. Alcoverro, J. Romero: Seasonal and interannual variation of *Posidonia oceanica* bioindicators along the Catalan coast (northwest Mediterranean Sea): An uncertainty analysis.
- I. Guala**, S. Vacca, R. Isola, S. Boi, M.C. Diago, M.C. Buia, F. Silvestre, B. Floris, R. Anedda, L. Mura: *Posidonia oceanica* monitoring program in Sardinia: methodology and findings of the first year of surveying.
- K. Elkalay**, K. Khalil, S. Gobert, C. Frangoulis, J.H. Hecq, G. Lepoint: Dynamics growth model of *Posidonia oceanica*.
- L. Natij**, K. Elkalay: The first seagrass study in the Moroccan Mediterranean Sea.
- M. Toccaceli**, Di Carlo G., Alessi M.C., Bono A., Buscemi G., Sorce R.: Natural restoration and evolution of a *Posidonia oceanica* (L.) Delile meadow in a terrigenous dump area of the Gulf of Palermo (Sicily – Italy).
- A. Milani, E. Giovannetti, **M. Montefalcone**, C. Morri & G. Albertelli: Assessment of the *Posidonia oceanica* ecosystem status through an integrated approach: a case study from the Ligurian Sea (NW Mediterranean).
- M. Montefalcone**, M. Vacchi, M. Ferrari, G. Albertelli, C. Morri & C.N. Bianchie: The influence of coastal hydrodynamic on the upper limit of the *Posidonia oceanica* meadows.
- M. Pérez, **N. Sanmartí**, S. Oliva, I. Llagostera, O. Mascaró, J. Romero: Developing an index based on the seagrass *Cymodocea nodosa* to assess ecological status of coastal waters.
- N. Ungaro**, G. Costantino, F. Mastrototaro, M. Blonda, A. Pastorelli, D. Battista, R. Carlucci, A. Tursi: New data from the monitoring of *Posidonia oceanica* meadows distributed along the Apulian coasts (Eastern-Central Mediterranean Sea).
- P. García-Marín**, S. Cabaço, F.G. Brun, S. Barro, I. Hernández, J.J. Vergara, A. Newton: Using seagrasses as biological quality elements for the European Water Framework Directive: a comparative study in south-west Iberian Peninsula.

- P. Kružić**, V. Lonić: Mapping of the *Posidonia oceanica* meadows along the coast of the Fulija Islet (Eastern Adriatic Sea).
- S. Farina**, J. Romero, T. Alcoverro: The use of seagrass bioassays as a management tool.
- S. DeAmicis**, A. Foggo, M. Attrill: Effects of *Sargassum muticum* invasion on seagrass beds.
- T. Bakran-Petricioli**, Katalinic A., Ivanisevic J., Berkovic B., Nikolic V., Kruschel C., Schultz S.T.: Variations in *Posidonia oceanica* meadow characteristics along large enclosed bay within a protected area on the Eastern Coast of the Adriatic Sea.
- V. Gerakaris**, P. Panayotidis: The use of *Posidonia oceanica* as a Biological Quality Element for the implementation of WFD (2000/60/EC) in Greek coastal waters.
- V. Papathanasiou**, S. Orfanidis, M.T. Brown: *Cymodocea nodosa* as a bioindicator of coastal water quality: an integrative approach.
- V. Nikolić**, M. Despalatović, T. Alcoverro, J. Romero, B. Antolić, M. Zoko, D. Blažević, D. Brajčić, K. Madirazza, A. Obarčanin, A. Žuljević, I. Cvitković: First classification of coastal waters in the central Adriatic Sea using *Posidonia oceanica* as bioindicator of water quality.
- Y. Ramzi Sghaier**, R. Zakhama-Sraieb, F. Charfi-Cheikhrouha: Features of *Posidonia oceanica* micro-atolls at Hergla (Tunisie).

## Session II

- A. Cossu**, Ragazzola F., Demelas S.: Use of Image analysis on *Posidonia oceanica* (L.) Delile epiphyte assemblages: method evaluation and case study.
- B. Antolić**, M. Despalatović, A. Žuljević, V. Nikolić, I. Grubelić, I. Cvitković: Relations between epiphytic flora and vegetation developed on leaves and rhizomes of *Posidonia oceanica* in the Adriatic Sea.
- C. Labbe**, R. Kantin, C. Pergent-Martini, G. Pergent: Evolution of PAHs concentration in *Posidonia oceanica* according to a contamination source.
- D. Soualili**: Effect of pollution on the morphological variability of the *Paracentrotus lividus* population inhabiting the seagrass *Posidonia oceanica* of Algiers Bay.
- I. Barrote**, S. Albano, I. Paixão, R. Santos, J. Silva: Oxidative stress in the intertidal seagrass *Zostera noltii*.
- I. Cvitković**, A. Travizi, A. Žuljević, V. Nikolić, M. Despalatović, I. Grubelić, B. Antolić: Meiofauna from *Posidonia oceanica* meadow in Starigrad Bay (Island of Hvar, Adriatic Sea).
- I. Llagostera**, N. Sanmartí, M. Pérez, J. Romero: Patterns of heavy metal content in sediments and tissues of the seagrass *Cymodocea nodosa* in two Western Mediterranean bays.
- J. Pagès**, M. Pérez, J. Romero: *Cymodocea nodosa* tolerance to salinity increments: an experimental approach.
- V Gnisci, A Rotini, A Giallongo, **L. Migliore**: Total phenols content in *Posidonia oceanica* rhizomes.
- P. Stacchini, A.A. Pastorelli, A Rotini, **L. Migliore**: Trace elements concentrations in *Posidonia oceanica* (L.).
- M. Zarranz-Elso**, González-Henríquez N., García-Jiménez P., Robaina R.R.: Axenic cell culture of the seagrass *Cymodocea nodosa* from cotyledonary tissue.

- A.M. Mannino, F.P. Mancuso, **M. Toccaceli**: Spreading of the alien seagrass *Halophila stipulacea* (Hydrocharitaceae) along the Sicilian coast (western Mediterranean Sea).
- M. Kagiorgi**, E.T Apostolaki, M. Holmer, I. Karakassis: Fish farming impact on epiphyte seasonal dynamics of *Posidonia oceanica* (L.) Delile.
- M. Salivas-Decaux**, M. Bonacorsi, H. Langar, G. Pergent: Seasonal variations of Total-Mercury and Methyl-Mercury concentrations in two seagrasses.
- S. Matić-Skoko, **N. Stagličić**, A. Pallaoro, M. Kraljević, J. Dulčić: Settlement and growth of fishes from genus *Symphodus* (Perciformes, Labridae) in shallow seagrass beds on the eastern Adriatic coast.
- P. Kružić**, V. Kovačević: Anthozoan fauna in *Posidonia oceanica* meadows along the coast of the Dugi Otok Island (Eastern Adriatic Sea).
- S. Matijević, A. Žuljević, D. Bogner, M. Despalatović, B. Antolić, V. Nikolić: Characteristics of the sediment under the canopy of invasive alga *Caulerpa racemosa* var. *cylindracea*.
- S. Pinna**, A. Pais, L. Chessa, N. Sechi, A. Cossu, G. Ceccherelli: Herbivory on the seagrass *Posidonia oceanica*: indirect estimates of grazing by *Paracentrotus lividus* and *Sarpa salpa*.
- Y. Ramzi Sghaier**, C. Rais, H. Ben Moussa: Evaluation of the quantity of sand trapped in the banquettes of *Posidonia oceanica*.
- L. Pizzo, A. Mattera, F. Jüttner, **V. Zupo**: Signaling in *Posidonia oceanica*: effect of wound-activated compounds produced by epiphytic microalgae on associated invertebrates.
- W. Belgacem**, H. Langar, O. Kalthoum Ben Hassine: Depth and Temporal distribution of mollusks and relationship with plant features in a *Posidonia oceanica* meadow off north-east Tunisia (Cap Zebib).