

Miriam Ruocco



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Current Position: OU-SZN PhD Student

Director of study: Gabriele Procaccini, Stazione Zoologica Anton Dohrn (Naples, Italy)

External Supervisor: Prof. Fabio Bulleri, University of Pisa (Pisa, Italy)

Program: Open University, XVII cycle

Affiliation:

Section IME, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree/ Function	Year	Field of Study
Centre of Marine Sciences, University of Algarve (Faro, Portugal)	Research Fellowship	09/2013 - 04/2015	Project “HighGrass” - High-CO ₂ effects on seagrass photosynthetic ecophysiology (PTDC/MAR- EST/3687/2012).
University of Naples “Federico II” (Naples, Italy)	Master degree	10/2009 - 12/2012	Biology (<i>curriculum Bio-molecular</i>) <i>Thesis title:</i> “Adaptive response of the seagrass <i>Posidonia oceanica</i> to the bathymetric gradient”.
Stazione Zoologica “Anton Dohrn” (Naples, Italy)	Training	05/2012 - 07/2012	Photosynthetic and photo-protective pigment identification and quantification by High Performance Liquid Chromatography (HPLC).
University of Naples “Federico II” (Naples, Italy)	Bachelor degree	09/2005 - 05/2009	General and Applied Biology (<i>curriculum Molecular and Cellular Biology</i>)

Other matters relevant to scientific careers

Member of the Italian Society of Marine Biology (S.I.B.M)

Scuba diver (OPEN WATER DIVER ANIS/CMAS)

Publications

List of publications of the last 10 years:

Journal Papers

Mazzuca S., Björk M., Beer S., Felisberto P., Gobert S., Procaccini G., Runcie J., Silva J., Borges A., Brunet C., Buapet P., Costa M. M., D'Esposito D., Gullström M., Lejeune P., Lepoint G., Olivé I., Rasmusson L., Richir J., Ruocco M., Serra I.A., Spadafora A., Santos R. (2013) Establishing research strategies, methodologies, and technologies to link genomics and proteomics to seagrass productivity, community metabolism and ecosystem carbon fluxes. *Front Plant Sci.*4:38. doi: 10.3389/fpls.2013.00038.

Dattolo E., Ruocco M., Brunet C., Lorenti, M., Lauritano C., D'Esposito D., De Luca P., Sanges R., Mazzuca, S., Procaccini G. (2014) Response of the seagrass *Posidonia oceanica* to different light environments: Insights from a combined molecular and photo-physiological study. *Marine Environmental Research*. <http://dx.doi.org/10.1016/j.marenvres.2014.07.010>.

Lauritano C., Ruocco M., Dattolo E., Buia M.C., Silva J., Santos R., Olivé I., Costa M. M., Procaccini G. Response of key stress-related genes of the seagrass *Posidonia oceanica* in the vicinity of submarine volcanic vents. *Biogeosciences* 12(13):4185-4194.

Minor publications

Ruocco M., Brunet C., Lorenti M., Lauritano C., D'Esposito D., Riccio M., Procaccini G. (2012) *Posidonia oceanica* photoadaptation to the depth gradient. *Biol. Mar. Mediterr.*19 (1): 63-64.

Dattolo E., Lauritano C., Ruocco M., Procaccini G. (2015) Circadian fluctuation of gene expression along a bathymetric cline in the marine angiosperm *Posidonia oceanica*. *PeerJ PrePrints* 3:e1298 <https://dx.doi.org/10.7287/peerj.preprints.1058v1>

Procaccini G., Dattolo E., Lauritano C., Ruocco M., Marín-Guirao L. (2015) *Posidonia oceanica* molecular adaptation to the light environment. *PeerJ PrePrints* 3:e1296 <https://dx.doi.org/10.7287/peerj.preprints.1056v1>

Ruocco M., Procaccini G., Musacchia F., Sanges R., Olivé I., Costa M. M., Barrote I., Santos R., Silva J. (2015) *Cymodocea nodosa* response to simulated CO₂-driven ocean acidification: a

Abstracts/Posters in international congresses

- 43th Congress of Italian Society of Marine Biology (S.I.B.M.) (4-8 Jun. 2012, Marina di Camerota, Italy) - *Posidonia oceanica* photoadaptation to the depth gradient. M. Ruocco, C. Brunet, M. Lorenti, C. Lauritano, D. D'Esposito, M. Riccio, G. Procaccini.
- XIV Congress of the European Society for Evolutionary Biology (19-24 Aug. 2013, Lisbon, Portugal) - Circadian fluctuation of gene expression along the bathymetric cline in the marine angiosperm *Posidonia oceanica*. E. Dattolo, D. D'Esposito, C. Lauritano, M. Ruocco, G. Procaccini.
- EUR-OCEANS hot topics conference - A changing ocean (6-8 Nov. 2013, Gran Canaria, Spain) - Insights on adaptation and plasticity of *Posidonia oceanica* along a bathymetric gradient. G. Procaccini, E. Dattolo, D. D'Esposito, C. Lauritano, S. Mazzuca, M. Ruocco, R. Sanges.
- Final Conference of COST Action ES0906: "Seagrasses in Europe: Threats, Responses and Management" (4-6 Mar. 2014, Olhão, Portugal) - Daily variation in gene expression along a depth-related gradient of light availability in *Posidonia oceanica*. M. Ruocco, E. Dattolo, C. Lauritano, G. Procaccini.
- Final Conference of COST Action ES0906: "Seagrasses in Europe: Threats, Responses and Management" (4-6 Mar. 2014, Olhão, Portugal) - Stress genes in the seagrass *Posidonia oceanica*. C. Lauritano, M. Ruocco, E. Dattolo, M.C. Buia, J. Silva, G. Procaccini.
- ASLO Aquatic Sciences Meeting (22-27 Feb. 2015, Granada, Spain) - Seagrass photosynthetic responses to a natural high-CO₂ environment: physiology meets gene expression. J. Silva, M. M. Costa, I. Olivé, I. Barrote, M. Ruocco, C. Lauritano, G. Procaccini, R. Santos.
- 4th Mediterranean Seagrass Workshop (18-22 May 2015, Oristano, Italy) - *Cymodocea nodosa* response to simulated CO₂-driven ocean acidification: A first insight from global transcriptome profiling. M. Ruocco, G. Procaccini, F. Musacchia, R. Sanges, I. Olivé, M. M. Costa, I. Barrote, R. Santos, J. Silva.
- 4th Mediterranean Seagrass Workshop (18-22 May 2015, Oristano, Italy) - *Posidonia oceanica* molecular adaptation to the light environment. G. Procaccini, E. Dattolo, C. Lauritano, M. Ruocco, L. Marín-Guirao.