

CURRICULUM VITAE

Juan Jose Cruz Motta

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1) EDUCATION

2001 – 2004. **PhD, Science** (Experimental Ecology). Centre for Research on Ecological Impacts of Coastal Cities, University of Sydney, Australia. Final Thesis: Benthic ecology in sediments associated with boulder-fields. Supervisors: Prof. A. J. Underwood and Dr. G. Chapman

1997 – 2000. **Msc, Tropical Marine Biology**. Marine Biology Department, James Cook University, Townsville, Australia. Final Thesis: Dredged material disposal impacts on the soft-bottom benthic community of Cleveland Bay. Supervisor: Dr. J. Collins.

1988 – 1994. “**Licentiate**” in **Biology** (Five years degree + final thesis). Simón Bolívar University, Caracas, Venezuela. Final Thesis: Re-colonisation processes and succession in a soft-bottom benthic community. Prof. D. Bone.

Other courses. Anemone taxonomy (2012), Tunicate taxonomy (2009), Multivariate analyses, PERMANOVA (2009), Effective teaching and active learning (2007), Project management (2005), Multivariate analyses (2003), Effective demonstrating (2002), Numerically intensive methods (2001), PRIMER (2001), Experimental design (2001), Program R (2000), Statistical analyses (1999).

2) WORK EXPERIENCE

2.1) Academic and research

July 2015 – present. Assistant Professor. Department of Marine Sciences. University of Puerto Rico at Mayaguez. Area of expertise: General Ecology, Marine Ecology, Quantitative Ecology, Experimental Design and Statistics, Detection of environmental impacts in marine ecosystems.

January 2005 – June 2014. Associate Professor and director of the Experimental Ecology Laboratory. Simón Bolívar University, Caracas, Venezuela. **Area of expertise:** *General Ecology, Marine Ecology, Quantitative Ecology, Experimental Design and Statistics, Detection of environmental impacts in marine ecosystems* (Complete list of research projects below).

2.2) Consultancy

February 2013 - Present. Independent consultant. BioAnalysis: Marine, Estuarine & Freshwater Ecology, Sydney, Australia. **Area of expertise:** *Monitoring programs and data analyses for coal mines, power plants and aquaculture farms.*

January 2005 – Present. Senior Scientific Advisor and Consultant. Technological and Scientific Foundation of Simón Bolívar University. **Area of expertise:** *EIA, Monitoring programs, Sampling designs, Data analyses, Stakeholder engagement for the oil industry.* (Complete list of projects below).

2.3) Research

January 2003 – December 2004. Research Assistant. Centre for Research on Ecological Impacts of Coastal Cities Centre for Research on Ecological Impacts of Coastal Cities. University of Sydney, Australia. **Area of expertise:** *Intertidal Rocky Shores, Statistical analyses.*

October 1998 – March 2001. Associate Researcher. School of Marine Biology and Aquaculture, James Cook University and the Cooperative Research Centre (CRC Reef), Townsville, Australia. **Area of expertise:** *Introduced Marine Species, Invertebrate Taxonomy.*

October 1995 – May 1997. Research Assistant. Institute of Technology and Marine Sciences (INTECMAR). Simón Bolívar University, Caracas, Venezuela. **Area of expertise:** Marine Ecology, Monitoring Programs.

January 1995 – July 1995. Research Assistant. Institute of Renewable Resources, Simón Bolívar University Caracas, Venezuela. **Area of expertise:** Limnology.

2.4) Teaching

January 2010 - Present. Official Representative for Latin America of the company PRIMER-E, ltd. to teach the statistical software PRIMER and PERMANOVA *add on.*

October 2014. I Mexican workshop on multivariate data analysis for Biologists, Ecologist and Environmental Scientists using PRIMER V6. Universidad Autonoma de Mexico y Centro de Investigaciones Cientificas de Yucatan, Merida, Mexico.

September 2013. III Venezuelan workshop on multivariate data analysis for Biologists, Ecologist and Environmental Scientists using PRIMER V6 & PERMANOVA *add on.* Western University, Boca de Rio, Venezuela.

May 2013. Logic and Experimental design for Environmental Managers. Course dictated for government officials of the Ministry of Environment and Ministry of Energy of Peru. Lima, Peru.

September 2012. Theoretical and practical course on experimental design. Venezuelan Institute of Scientific Investigations (IVIC). Altos de Pipe, Venezuela.

April 2012. First Latin-American course on Multivariate data analysis for Biologist, Ecologists and Environmental Scientists using PRIMER V6 and PERMANOVA. International Center for Tropical Studies, Margarita, Venezuela.

February 2012. Theoretical and practical course on experimental design. School of Biology, Los Andes University. Mérida, Venezuela.

August 2011. II Venezuelan workshop on multivariate data analysis for Biologists, Ecologist and Environmental Scientists using PRIMER V6 & PERMANOVA add on. Venezuelan Institute of Scientific Investigations (IVIC). Altos de Pipe, Venezuela.

September 2010. I Venezuelan workshop on multivariate data analysis for Biologists, Ecologist and Environmental Scientists using PRIMER V6 & PERMANOVA *add on*. Western University, Boca de Rio, Venezuela.

February-June 2004, 2003, 2002. Academic Assistant **Marine Biology**. School of Biological Sciences. University of Sydney, Australia.

August - November 2002, 2003. Academic Assistant **Quantitative Methods for Ecology**. School of Biological Sciences, University of Sydney, Australia.

August - November 2003. Academic Assistant **Marine Ecology**. School of Biological Sciences, University of Sydney, Australia).

February-June 2002. Demonstrator **Biology Concepts**. School of Biological Sciences. University of Sydney, Australia.

August-October 2000, 1998. Academic Assistant **Biology of Marine Invertebrates**. School of Marine Biology and Aquaculture, James Cook University, Townsville, Australia.

August-October 2000, 1999, 1998. Academic Assistant **Benthic Ecology**. School of Marine Biology and Aquaculture, James Cook University.

March-June 2000, 1999. Academic Assistant **Biometry**. School of Tropical Biology. James Cook University.

March-June 1998. Demonstrator **Introductory Zoology**. Department of Zoology, James Cook University.

3 PUBLICATIONS

3.1) Peer-reviewed

- 1) Guerra-Castro, E.; **Cruz-Motta, J.J.** 2014. Ecology of fouling assemblages associated with mangrove's roots: an artificial substrate for manipulative

- experiments. *Journal of Experimental Marine Biology and Ecology*. 457: 31-40.
- 2) Miloslavich, P.; **Cruz-Motta, J.J.**; Klein, E.; Iken, K.; Weinberger, V.; Konar, B.; Trott, T.; Pohle, G.; Bigatti, G.; Benedetti-Cecchi, L.; Shirayama, Y.; Mead, A.; Palomo, G.; Ortiz, M.; Gobin, J.; Sardi, A.; Diaz, J.M.; Knowlton, A.; Wong, M.; Peralta, A. 2103. Large-Scale Spatial Distribution Patterns of Gastropod Assemblages in Rocky Shores. *PLoS ONE* 8(8): e71396. doi:10.1371/journal.pone.0071396
 - 3) M.M. Castillo; H. Morales; E. Valencia; J.J. Morales; **Cruz Motta, JJ.** 2013. The effects of human land use on flow regime and water chemistry of headwater streams in the highlands of Chiapas. *Knowledge and Management of Aquatic Ecosystems*. 407(09). DOI: 10.1051/kmae/2013035
 - 4) Tolhurst, T.J.; Chapman, M.G.; Underwood, A.J.; **Cruz-Motta, J.J.** 2012. The effects of five different defaunation methods on biogeochemical properties of intertidal sediment. *Biogeosciences* 9: 1377–1406
 - 5) Jones, D.O.; **Cruz Motta, JJ**; Bone, D.; Kaariainen, j.a. 2012. Effects of oil drilling activity on the deep water megabenthos of the Orinoco Fan, Venezuela". *Journal of the Marine Biological Association of the United Kingdom*. 92 (02): 245 – 253.
 - 6) Guerra-Castro, E. **Cruz-Motta, J.J.**, Conde, J.E. 2011. Cuantificación de la diversidad de especies incrustantes asociadas a las raíces de *Rhizophora mangle* L. en el Parque Nacional Laguna de la Restinga. *InterCiencia* 12(36): 923-930.
 - 7) Cavada, F.; Ayala, R.; Troccoli, L.; **Cruz-Motta, J.J.** 2011. Microalgae from the mucus layer of two massive corals: more than sunken plankton. *Marine Biology*. 158: 2495–2504.
 - 8) Gerhard Pohle; Katrin Iken; Robert Clarke; Thomas Trott; Brenda Konar; **Cruz Motta, JJ**; Melisa Wong; Lisandro Benedetti-Cecchi; Angela Mead; Miloslavich, P.; Nova Mieszkowska; Rebecca Milne; Laura Tamburello; Ann Knowlton; Edward Kimani; Yoshihisa Shirayama. Aspects of Benthic Decapod Diversity and Distribution from Rocky Nearshore Habitat at Geographically Widely Dispersed Sites. *PLOS ONE*. 2011. Vol. 6, pp. 1 - 11.
 - 9) Camilo Mora; Octavio Aburto-Oropeza; Arturo Ayala Bocos; Paula M. Ayotte; Stuart Banks; Andrew G. Bauman; Maria Beger; Sandra Bessudo; David J. Booth; Eran Brokovich; Andrew Brooks; Pascale Chabanet; Joshua E. Cinner; Jorge Cortes; **Cruz Motta, JJ**; Amilcar Cupul; Edward E. DeMartini; Graham J. Edgar; David A. Feary; Sebastian C. A. Ferse; Alan M. Friedlander; Kevin J. Gaston; Charlotte Gough; Nicholas A. J. Graham; Alison Green; Hector Guzman; Marah Hardt; Michel Kulbicki; Yves Letourneur; Andres Lopez

Perez; Michel Loreau; Yossi Loya; Camilo Martinez; Ismael Mascaren˜as-Osorio; Tau Morove; Marc-Olivier Nadon; Yohei Nakamura; Gustavo Paredes; Nicholas V. C. Polunin; Morgan S. Pratchett; Hector Reyes Bonilla; Fernando Rivera; Enric Sala; Stuart A. Sandin; German Soler; Rick Stuart-Smith; Emmanuel Tessier; Derek P. Tittensor; Mark Tupper; Paolo Usseglio; Laurent Vigliola; Laurent Wantiez; Ivor Williams; Shaun K. Wilson; Fernando A. Zapata. Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes". PLOS BIOLOGY. 2011. Vol. 9, pp. 1 - 9.

- 10) **Cruz Motta, JJ**; Miloslavich, P.; Palomo, G.; Iken, K.; Konar, B.; Pole, G.; Trott, T.; Benedetti-Cecchi, L.; Herrera, C.; Hernandez, A.; Sardi, A.; Bueno, A.; Castillo, J.; Klein, E; Guerra-Castro, E.; Gobin, J.; Gomez, D. I.; Riosmena-Rodriguez, R; Mead, A.; Bigatti, G.; Knowlton, A.; Shirayama, Y. 2010. Patterns of Spatial Variation of Assemblages Associated with Intertidal Rocky Shores: A Global Perspective". PLOS ONE. Vol. 5, pp. 1 - 10.
- 11) Konar, B.; Iken, K.; **Cruz Motta, JJ**; Benedetti-Cecchi, L.; Knowlton, A.; Pohle, G.; Miloslavich, P.; Edwards, M.; Trott, T.; Kimani, E.; Riosmena-Rodriguez, R.; Wong, M.; Jenkins, S.; Silva, A.; Sousa-Pinto, I.; Shirayama, Y. 2010. Current Patterns of Macroalgal Diversity and Biomass in Northern Hemisphere Rocky Shores. PLOS ONE. Vol. 5(11) doi/10.1371/journal., pp. 1 - 8.
- 12) Iken, K.; Konar, B.; Benedetti-Cecchi, L.; **Cruz Motta, JJ**; Knowlton, A.; Pohle, G.; Mead, A.; Miloslavich, P.; Wong, M.; Trott, T.; Mieszkowska, N.; Riosmena-Rodriguez, R.; Arioldi, L.; Kimani, E.; Shirayama, Y.; Frascchetti, S.; Ortiz-Touzet, M.; Silva, A. 2010. Large-Scale Spatial Distribution Patterns of Echinoderms in Nearshore Rocky Habitats. PLOS ONE. 2010. Vol. 5(11), pp. 1 - 14.
- 13) Miloslavich, P.; Dıaz, J.M.; Klein, E; Alvarado, J.J.; Dıaz, C.; Gobin, J.; Escobar-Briones, E.; **Cruz Motta, JJ**; Weil, E.; Cortes, J.; Bastidas, C.; Robertson, R.; Zapata, F.; Martın, A; Castillo, J.; Kazandjian, Aniuska; Ortiz, M.. 2010. Marine Biodiversity in the Caribbean: regional estimates and distribution patterns. PLOS ONE. 2010. Vol. 5 (8):e11916, pp. 1 - 25.
- 14) Benedetti-Cecchi, L.; Iken, K.; Konar, B.; **Cruz Motta, JJ**; Knowlton, A.; Pohle, G.; Castelli, A.; Tamburello, L.; Mead, A.; Trott, T.; Miloslavich, P.; Wong, M.; Shirayama, Y.; Lardicci, C.; Palomo, G.; Maggi, E.. "Spatial Relationships between Polychaete Assemblages and Environmental Variables over Broad Geographical Scales". PLOS ONE. Vol. 5(2) doi/10.1371/journal., pp. 1 - 10.

- 15) E. M. García, C. Bastidas, **J.J. Cruz-Motta** and O. Farina. 2011. Metals in Waters and Sediments of the Morrocoy National Park, Venezuela: Increased Contamination Levels of Cadmium over Time. *Water Air and Soil Pollution*. 214:609-621.
- 16) Rocha, R; Guerra Castro, E; Lira, C.; Pauls, S.; Hernández, I; Pérez, A.; Sardi, A; Pérez, J; Herrera, C; Carbonini, A.; Caraballo, V.; Salazar, D.; Díaz, M. C.; **Cruz Motta, J.J.** 2010. "Inventário de ascídias (Tunicata, Ascidiacea) do Parque Nacional La Restinga, Isla Margarita, Venezuela ". *Biota Neotropica*. 10(1): 15-24.
- 17) García, E.; **Cruz-Motta, J.J.**, Farina, O.; Bastidas, C. 2008. Anthropogenic influences on heavy metals across marine habitats in the western coast of Venezuela. *Continental Shelf Research*. 28(20): 2757–2766.
- 18) **Cruz-Motta, J.J.** 2007. Spatial analyses of tropical assemblages associated with rocky shores in Venezuela. *Ciencias Marinas*. 33(2): 133-148
- 19) **Cruz-Motta, J.J.**; Petkoff, I.; Klein E and Alvarez, H. 2007. Detection of Impacts in a Changing and Highly Variable World: The Case of a Floating Storage and Offloading (FSO) Unit in the Gulf of Paria (Venezuela). Proceedings of the 2007 SPE E&P Environmental and Safety Conference. 22(1): 121-129.
- 20) **Cruz-Motta, J.J.** 2005. Diel and tidal variations of benthic assemblages in sediments associated with boulder-fields. *Marine Ecology Progress Series*. 290: 97-107.
- 21) **Cruz-Motta, J.J.** and J. Collins. 2004. Impacts of dredged material disposal on a tropical soft-bottom benthic assemblages. *Marine Pollution Bulletin*. 48: 270-280.
- 22) **Cruz Motta, J.J.**; Underwood, A. J.; Chapman, M.G.; Rossi, F. 2003. Benthic assemblages in sediments associated with boulder-fields. *Journal of Experimental Marine Biology and Ecology*, 285-286: 383-402
- 23) Dave Raffaelli, Elanor Bell, Guntram Weithoff, Asako Matsumoto, **Juan Jose Cruz-Motta**, Pete Kershaw, Ruth Parker, Dave Parry and Malcolm Jones. 2003. The ups and downs of benthic ecology: considerations of scale, heterogeneity and surveillance for benthic pelagic coupling. *Journal of Experimental Marine Biology and Ecology*, 285-286: 191-204
- 24) Laboy-Nieves, Eddie N.; E. Klein, J. E. Conde, **J.J. Cruz**, F. Losada & D. Bone. 2001. "Mass Mortality of Tropical Marine Communities in Morrocoy, Venezuela". *Bulletin of Marine Sciences*. 68(2): 163-179

- 25) **Cruz, J.J.** & D. Bone. 1997. Procesos de Recolonización en una Comunidad Bentónica Tropical (Golfo Triste, Venezuela). *Publicaciones Especiales. Boletín del Instituto Español de Oceanografía*. 23: 93-105

4.2) Book Chapters

- 1) Konar, B., K. Iken, G. Pohle, P. Miloslavich, **J.J. Cruz-Motta**, L. Benedetti-Cecchi, E., Kimani, A. Knowlton, T. Trott, T. Iseto, Y. Shirayama. 2010. Surveying Nearshore Biodiversity (Pages: 27-41). In: McIntyre, A. (ed). *Life in the World's Oceans: Diversity, Distribution and Abundance*. Blackwell Publishing Ltd. (Oxford). ISBN: 978-1-4051-9297-2, 361 p.
- 2) E. Klein, D. Sánchez, L. Malavé, J. Posada, G. Papadakis, R. Lazo, A. Chatwin, M. Guevara, J.C. González, R. Martínez, C. Villalba, E. Yerena, H. Guada, **J.J. Cruz**, M. Rada, C. Bastidas, and A. Ramos. 2007. Coastal and Marine Conservation Priorities in Venezuela. En: Chatwin, A. (Ed.) *Priorities for Coastal and Marine Conservation in South America*. The Nature Conservancy, Virginia, USA. pp: 49-54
- 3) **Cruz, J.J.** y E. Klein. 2008. Indicadores del Estado de Biodiversidad. En: Klein, E. (Ed.). *Prioridades de PDVSA en la conservación de la biodiversidad del Caribe Venezolano*. pp: 58-62.

4.3) Technical reports

- 1) S. P. Cummins, D. E. Roberts and **J. J. Cruz-Motta**. 2015. Aquatic Ecology Monitoring: Metropolitan Coal Longwalls 20-22. Autumn 2014 Report for Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.
- 2) Cummins, S. P., Roberts, D. E., **Cruz-Motta, J. J.** 2014. Aquatic Ecology Monitoring: Metropolitan Coal Longwalls 20-22 – Spring 2013 Survey. Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.
- 3) Cummins, S. P., **Cruz-Motta, J. J.**, Roberts, D. E., Murray, S. R. (2014). Assessment of Seagrass and Macro-algal for Vales Point Power Station (summer 2014). Report prepared for Delta Electricity by Bio-Analysis Pty Ltd.
- 4) S. P. Cummins, D. E. Roberts and **J. J. Cruz-Motta**. 2014. Aquatic Ecology Monitoring: Metropolitan Coal Longwalls 20-22. Autumn 2013 Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.

- 5) Cummins, S. P., **Cruz-Motta, J. J.**, Roberts, D. E. (2014). Analysis of Aquatic Data collected by the Murrumbidgee Ecological Monitoring Programme. Bio-Analysis Report for SKM and ACTEW Water.
- 6) Cummins, S. P., Roberts, D. E., **Cruz-Motta, J. J.**, Sonneman, J. 2014. Metropolitan Colliery Longwalls 14-17: Aquatic Ecology Monitoring Program – autumn 2013 Survey. Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.
- 7) **Cruz Motta, J.J.** 2014. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Perla 5X”, “Cardon” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Perla 5X”, “Cardon” Field, Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. XI + 162 pp.
- 8) S. P. Cummins, D. E. Roberts, S.R. Murray and **J. J. Cruz-Motta**. 2013. Assessment of Seagrass and Macroalgae for Vales Point Power Station (summer 2013). Final Report for **DELTA ELECTRICITY**. BIO-ANALYSIS Pty Ltd., Sydney, Australia. 52 pp.
- 9) **Cruz-Motta, J. J.**, Cummins, S. P., Roberts, D. E. (2013). Assessment of assemblages of benthic macroinvertebrates in the vicinity of the proposed abalone pipeline. Report prepared for Pindimar Abalone Farm. Bioanalysis Cummins, S. P., Roberts, D. E., **Cruz-Motta, J. J.** (2013). Environmental Impact Study –
- 10) **Cruz-Motta, J. J.**, Cummins, S. P., Roberts, D. E. 2013. Assessment of Spatial and Temporal Patterns in Seagrasses Sampled Close and Far from the Vales Point Power Station (summer 2009-2013). Report prepared for Delta Electricity by Bio-Analysis Pty Ltd.
- 11) S. P. Cummins, D. E. Roberts and **J. J. Cruz-Motta**. 2013. Environmental Impact Study-Cessation of Flow from Inlet to Outlet Canals at the Munmorah Power station. Final Report for **DELTA ELECTRICITY**. BIO-ANALYSIS Pty Ltd., Sydney, Australia 42 pp.
- 12) S. P. Cummins, D. E. Roberts and **J. J. Cruz-Motta**. 2013. Aquatic Ecology Monitoring: Metropolitan Coal Longwalls 20-22. Autumn 2012 Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.
- 13) S. P. Cummins, D. E. Roberts and **J. J. Cruz-Motta**. 2013. Aquatic Ecology Monitoring: Metropolitan Coal Longwalls 20-22. Spring 2012 Prepared for Metropolitan Coal Pty Ltd. BIO ANALYSIS: Marine, Estuarine & Freshwater Ecology, Narara, NSW.

- 14) **Cruz Motta, J.J.** 2013. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Perla 4X”, “Cardon” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Perla 4X”, “Cardon” Field, Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. XI + 140 pp.
- 15) **Cruz Motta, J.J.** and Croquer, A. 2012. Spatial and temporal analysis of marine communities (benthos, plankton, ictioplancton and sediments), fisheries and water quality around a gas pipe in Gulf of Coro, Southern Caribbean. Final report for the **Venezuelan Oil Company PDVSA**. INTECMAR. FUNINDES PDVSA. XV +230 pp.
- 16) **Cruz Motta, J.J.** and Croquer, A. 2012. Fouling communities of Gulf of Venezuela: recommendations for offshore engineering projects. Final report for the **Spanish oil company REPSOL**. INTECMAR-FUNINDES.REPSOL. II + 43 pp.
- 17) Martín, A and **Cruz Motta, J.J.** 2012. Environmental and biodiversity baseline of Gulf of “Venezuela” (Barracuda Field). Final report for the **Venezuelan Oil Company PDVSA**. INTECMAR-FUNINDES. PDVSA. XV + 316 pp.
- 18) **Cruz Motta, J.J.** 2012. Environmental monitoring program for exploration activities in “Barracuda” field, Gulf of “Venezuela”. In: Molinet, R. Environmental, socioeconomic and cultural impact assessment of exploratory drilling in “Barracuda” field, Gulf of “Venezuela”. Final report for the **Venezuelan Oil Company PDVSA**. INTECMAR-FUNINDES. PDVSA. XXXI + 977 pp.
- 19) Bone, D., Martín A., **Cruz Motta, J.J.** 2012. Integration of environmental studies and detection of environmental impacts in “Barracuda” field, Gulf of “Venezuela”. Final report for the **Venezuelan Oil Company PDVSA**. INTECMAR-FUNINDES. PDVSA. II + 15 pp.
- 20) **Cruz Motta, J.J.** 2012. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Perla 3X”, “Cardon” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Perla 3X”, “Cardon” Field, Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. X + 95 pp.
- 21) **Cruz Motta, J.J.** 2012. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Perla 2X”, “Cardon” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Perla 2X”, “Cardon” Field, Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. XII + 120 pp.

- 22) **Cruz Motta, J.J.** 2011. Quantitative detection of environmental impacts on fisheries associated with 3D seismic explorations in “Barracuda” field, Gulf of “Venezuela”. In: Molinet, R; Pomres, O. (Eds.): Environmental monitoring program of the marine seismic explorations in “Barracuda” field (10G-3D), Gulf of “Venezuela”. Final report for the **Venezuelan Oil Company PDVSA**. INTECMAR-FUNINDES. PDVSA. XII + 228 pp.
- 23) **Cruz Motta, J.J.** 2011. Quantitative detection of environmental impacts on fisheries associated with 3D seismic explorations in “Robalo” field, Gulf of “Venezuela”. In: Molinet, R; Pomres, O. (Eds.): Environmental monitoring program of the marine seismic explorations in “Robalo” field (3D-2012), Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. CARDON IV. X + 142 pp.
- 24) **Cruz Motta, J.J.** 2011. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Perla 1X”, “Cardon” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Perla 1X”, “Cardon” Field, Gulf of “Venezuela”. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. XII + 99 pp.
- 25) **Cruz Motta, J.J.** 2011. Environmental monitoring program to detect potential impacts associated with the construction of an oil rig in “Perla” field (Gulf of “Venezuela”) and connecting gas pipes. In: Molinet, R. and Alvarez, H. (Eds.): Environmental, socioeconomic and cultural impact assessment of offshore installations in “Perla” field (Gulf of “Venezuela”). Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES. REPSOL. XXVIII + 752 pp.
- 26) **Cruz Motta, J.J.** 2011. Quantitative detection of environmental impacts associated with the exploratory drilling of the well “Tuna 1X”, “Cardon III” Field, Gulf of “Venezuela”. In: Garcia, E. (Ed.); Environmental monitoring of well “Tuna 1X”, “Cardon III” Field, Gulf of “Venezuela”. Final report for **the US oil company CHEVRON**. INTECMAR-FUNINDES. CHEVRON. XIV + 103 pp.
- 27) **Cruz Motta, J.J.** 2011. Integration and meta-analyses of environmental projects of “Cardon IV” field, Gulf of “Venezuela”. In: Martin, A. (Ed.): Environmental baseline study of “Cardon IV” field and associated pipelines. Final report for **Spanish oil company REPSOL**. INTECMAR-FUNINDES-CARDON IV. XXII + 464 pp.
- 28) Martín, A., Bone, D., García, E., Pomares, O., Spiniello, P., **Cruz Motta, J.J.**, Papadakis, G., Riera, A. 2008. Interpretation and integration of water and sediment quality analyses in the Gulf of “Venezuela”. Final report for the **Venezuelan Oil Company PDVSA**. FUNINDES-PDVSA. XII+ 144 pp.

- 29) **Cruz Motta, J.J.** 2008. Integration and meta-analyses of environmental projects in “Urumaco II” field. In: Martin, A. (Ed.): Environmental baseline study of “Urumaco II” field. Final report for the **Russian oil company GAZPROM**. INTECMAR-FUNINDES-GAZPROM. XXI + 180 pp.
- 30) **Cruz Motta, J.J.** 2008. Integration and meta-analyses of environmental projects in “Urumaco I” field. In: Martin, A. (Ed.): Environmental baseline study of “Urumaco I” field. Final report for the **Russian oil company GAZPROM**. INTECMAR-FUNINDES-GAZPROM. XXI + 186 pp.
- 31) **Cruz Motta, J.J.** 2008. Integration and meta-analyses of environmental projects in “Cardon III” field. In: Martin, A. (Ed.): Environmental baseline study of “Cardon III” field, Gulf of “Venezuela”. Final report for the **US oil company CHEVRON**. INTECMAR-FUNINDES-CHEVRON. XX + 203 pp.
- 32) **Cruz Motta, J.J.** 2008. Monitoring environmental program and potential impacts of “Corocoro” Project, Gulf of “Paria”, Venezuela: Phase II, after construction and installation of oil pipes and offshore rigs. Final report for the **US oil company CONOCO-PHILLIPS**. INTECMAR/USB/PDVSA/FUNINDES. Caracas, INTECMAR. II + 131 p.
- 33) **Cruz Motta, J.J.** 2007. Integration and meta-analyses of environmental projects in “Cardon IV” field. In: Martin, A. (Ed.): Environmental baseline study of “Cardon IV” field, Gulf of “Venezuela”. Final report for the **Spanish oil company REPSOL**. INTECMAR-FUNINDES-REPSOL. XX + 180 pp.
- 34) **Cruz Motta, J.J.** 2007. Integration and meta-analyses of environmental projects in “Moruy II” field. In: Martin, A. (Ed.): Environmental baseline study of “Moruy II” field, Gulf of “Venezuela”. Final report for the **Brazilian oil company PETROBRAS**. INTECMAR-FUNINDES-PETROBRAS. XIX + 122 pp.
- 35) **Cruz-Motta, J.J.** y E. Klein. 2007. Monitoring environmental program and potential impacts of “Corocoro” Project, Gulf of “Paria”, Venezuela: Phase I, before construction and installation of oil pipes and offshore rigs. Final report for the **US oil company CONOCO-PHILLIPS**. INTECMAR/USB/CONOCO/FUNINDES. Caracas, INTECMAR. VII + 121 p.
- 36) Castañeda, J.; Señor, W.; Martínez, G.; Morales, F.; López, R.; Márquez, A.; Martín, A.; **Cruz-Motta, J.J.** 2006. Spatial and temporal analyses of water quality parameters in the Atlantic Shelf of Venezuela. In: Martin, A. and Riera, A. (Eds.). 2006. Baseline study of the Venezuelan Atlantic Shelf. Final report for **Venezuelan Oil Company PDVSA**. PDVSA/USB/FUNINDES/INTECMAR. Caracas, INTECMAR. XLVIII + 813 p

- 37) **Cruz-Motta, J.J.** 2006. Description of soft-bottom benthic communities of Gulf of "Paria", Venezuela. In: Alvarez, H. (Ed.). Environmental Impact assessment of an offshore oil storage and shipping facility (FSO Nabarima) in "Corocoro" field, Gulf of "Paria", Venezuela. CONOCO-FUNINDES-USB. Caracas, IRNR. XV+126 p.
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- 43) **Cruz, J.J.** 2000. Effects of the dumping of dredged material of Townsville Port on the soft-bottom benthic community of Cleveland Bay. A technical report for the **Townsville Port Authority**. School of Marine Biology and Aquaculture. James Cook University. Townsville, Australia.
- 44) Hoedt, F.E., Choat J.H., Collins, J.C., **Cruz, J.J.** 2000. Mourilyan Harbour and Abbot Point surveys for monitoring the endemic coastal biota and for detection of invading species. **Report to Ports Corporation of Queensland**. CRC Reef Research, James Cook University, Townsville.
- 45) Klein, E. and **J.J. Cruz**. 1997. Technical report about the red tide event in "Morrocoy" National Park, Venezuela. Final report for **the Ministry of Environment of Venezuela**. INTECMAR/USB/CONICIT). 12 p.

- 46) García, E., Klein, E., **Cruz, J.J.** et al. 1996. Water and sediment quality analyses of the western coast of “Falcon” estate, Venezuela. Final report to **the government of “Falcon” estate**. INTECMAR/USB. 131 pp.

5 RESEARCH PROJECTS

- 1) **Cruz Motta, J.J.** 2012. Development of a simplified sampling protocol of biodiversity to be used by public high-school students. Funding: FONACIT. 150.000 BsF (35.000 US \$).
- 2) Klein, E; **Cruz Motta, J.J.**; Diaz, Y.; Kazandjian, A.; Martín, A; Miloslavich, P.; Molinet, Ricardo; Posada, J. 2008-Today. Marine Biodiversity center. Funding: LOCTI: Chevron, Conoco Phillips Venezuela. 15.000.000 BsF (3.500.000 Us \$).
- 3) Miloslavich, P. and **Cruz Motta, J.J.** 2006-2010. Natural Geography in Shore Areas (NaGISA)”. A Census of marine Life project. Funding: A. P. Sloan Foundation, NaGISA Internacional Headquarters, Seto Marine Biological Laboratory, University of Kyoto y el Decanato de Investigaciones de la Universidad Simón Bolívar. 110.00 US \$
- 4) Miloslavich, P. and **Cruz Motta, J.J.** 2006-2008. Natural Geography in Shore Areas (NaGISA)”. Venezuela. Funding: LOCTI: Chevron. 1.117.000 BsF (260.000 Us \$).
- 5) **Cruz-Motta, J.J.** and P. Miloslavich. 2010-2013. South –American Research Group on Coastal Ecosystems (SARCE). Funding: Total foundation 250.000 US \$.
- 6) **Cruz Motta, J.J.** 2010-2011. Assemblages associated with Mangroves. Funding: Laboratorio de Ecología Experimental (USB). 50.000 BsF (8.000 US \$)
- 7) **Cruz Motta, J.J.** 2005-2007. Spatial and Temporal distribution of benthic communities associated with intertidal rocky shores. Funding: Decanato de Investigaciones de la USB. 15.000 BsF (3500 Us \$).

6 CONGRESS AND MEETINGS

54 oral presentations and 10 posters in international (Argentina, Australia, Brasil, Canada, Costa Rica, Cuba, Curacao, Italy, Japan, Panama, Peru, Portugal, Spain, UK, USA) and national congresses (Australia, Venezuela).

5.1 Invited key note speeches

- 1) **Cruz Motta, J.J.** SARCE (South American Research Group on Coastal Ecosystems): A legacy of the Census of Marine Life in South America. Bicentenary

of the Museum of Natural Sciences of Argentina. Buenos Aires, Argentina 26-28 June 2012.

- 2) **Cruz Motta, J.J.** Considerations on the use of experimental evidence to establish patterns-processes relationships in mammals populations. First Symposium on methods to study large mammals. Porlamar, Venezuela. November 2011.
- 3) **Cruz Motta, J.J.** Incorporating logic into eco-logical conscience: the importance of experimental design in ecology. IX Venezuelan Congress of Ecology. Porlamar, Venezuela. November 2011.
- 4) **Cruz Motta, J.J.** Ecological experiments on unconsolidated substrates: closing the gaps. VII Encontro de Bioincrustação Ecologia Bêntica e Corrosão. Rio de Janeiro, Brasil. November 2007.
- 5) **Cruz Motta, J.J.** Postgraduate studies of Simon Bolivar University. XXXV anniversary of postgraduate studies on marine sciences at Western University, Cumana, Venezuela. June 2006.
- 6) **Cruz Motta, J.J.** Environmental problems at “Morrocy” National Park. II Simposia on Coastal Ecology. “Lisandro Alvarado” University, Barquisimeto, Venezuela. November 2000
- 7) Problemas en el Parque Nacional Morrocoy. II Jornadas de Ecología Costera. Universidad Centroccidental “Lisandro Alvarado”, 03-04 November 2000.

5.2) Workshops (as coordinator or co-coordinator):

- 1) **Cruz Motta, J.J.;** Miloslavich, P. South American Reserach Group on Coastal Ecosystems (SARCE). Third general workshop and second analytical workshop. Buenos Aires, Argentina. 2-5 Oct 2013.
- 2) **Cruz Motta, J.J.;** Miloslavich, P. South American Reserach Group on Coastal Ecosystems (SARCE). Second protocol workshop and first analytical workshop. Sao Sebastiao, Brasil. 23-30 Sep 2012.
- 3) **Cruz-Motta, J.J.** Results of the project NaGISA: Global, regional and local results. Workshop on Census of Marine of Marine Life Tools for environmental managers in Venezuela. Caracas, Venezuela. May 2011.
- 4) **Cruz-Motta, J.J.** Implementation of SARCE protocol in South America. Workshop on Census of Marine of Marine Life Tools for environmental managers in Venezuela. Caracas, Venezuela. May 2011.
- 5) **Cruz-Motta, J.J.** The coastal monitoring Project NaGISA: global, regional and local results. Workshop on Census of Marine Life Tools for Environmental

Managers in the Caribbean Region. Centro de Investigaciones en Ciencias del Mar y Limnología (CIMAR), Universidad de Costa Rica, San José. May 2011.

- 6) **Cruz-Motta, J.J.** Implementation of the SARCE protocol in South-America. Workshop on Census of Marine Life Tools for Environmental Managers in the Caribbean Region. Centro de Investigaciones en Ciencias del Mar y Limnología (CIMAR), Universidad de Costa Rica, San José. May 2011
- 7) First workshop of the Global Taxonomic Partnership. Paris, Francia. Jun 2009.
- 8) Synthesis Workshops and CoML SSC Meeting. Long Beach, USA. Feb 2009.
- 9) Natural geography in shore areas (NaGISA) protocol's workshop. Discovery Bay, Jamaica. Jun 2006. Organizer.
- 10) Natural geography in shore areas (NaGISA) protocol's workshop. Caracas, Venezuela. Jan 2006. Co-organizer

7 SUPERVISED THESIS

- 1) Jeannette Pérez., **Cruz Motta, J.J.** (Supervisor). Sponge assemblages associated to mangrove's roots and competition processes. Msc
- 2) Edlin Guerra., J. E. Conde (Supervisor), **Cruz Motta, J.J.** (Co-supervisor). Patterns and processes of assemblages associated with mangrove's roots. PhD 2013.
- 3) Pedro Cádiz., **Cruz Motta, J.J.** (Supervisor), A. Kazandjian (Co-supervisor). Competition as structuring processes in assemblages associated with mangrove's roots. Msc
- 4) Rosana Sánchez., **Cruz Motta, J.J.** (Supervisor), S. Marquez (Co-supervisor). Historical variations of assemblages associated with seagrass beds in N.P. "Morrocoy". Honours 2013.
- 5) Carolina González., **Cruz Motta, J.J.** (Supervisor). Spatil analyses of phytoplankton assemblages and correlation with physic-chemical parameters of the water column in the Central coast of Venezuela. Honours 2012
- 6) Carlos Soucre, J. Posada (Supervisor), **Cruz Motta, J.J.** (Co-Supervisor). Historical analyses of spearfishing captures in Venezuela through photographic records. Honours 2012.
- 7) Luis Montilla., **Cruz Motta, J.J.** (Supervisor). Colonization processes in natural and artificial patches of *Thalassia testudinum* in N.P. "Morrocoy". Honours 2013.

- 8) Arturo Lucas Focardell. **Cruz Motta, JJ** (Supervisor), Klein E. (Co-supervisor), Pérez, A. (Co-supervisor). Patterns of spatial distribution and temporal variations of fish assemblages associated with mangroves in N.P."Morrocoy". Honours 2011. Universidad de Barcelona, España. 2011.
- 9) Rebecka Oscarsson. **Cruz Motta, JJ** (Supervisor). Effect of habitat heterogeneity on marine epibiont assemblages associated with mangrove roots. Bachelor on environmental sciences. University of Lund, Sweden. 2010.
- 10) Adriana Ramos. **Cruz Motta, JJ**; Bastidas, C. (Supervisor). Benthic community associated with subtidal rocky shores of the Central Coast of Venezuela. Honours 2010.
- 11) Nelson Fernández. Bastidas, C.; **Cruz Motta, JJ** (Supervisor). Benthic communities and substrate classification of the Central Coast of Venezuela. Honours 2010.
- 12) Agudo, Esteban. Klein, E; **Cruz Motta, JJ** (Supervisor). Spatial analyses of fish assemblages associated with subtidal rocky reef on the Central Coast of Venezuela. Honours 2010.
- 13) Ulloa, Y. **Cruz Motta, JJ** (Supervisor). Herbivory and spatial analyses of assemblages associated with coral reefs. Honours 2010
- 14) José Farias. Miloslavich, P.; **Cruz Motta, JJ** (supervisor). Structure of assemblages associated with intertidal rocky shores of the Central Coast of Venezuela. Honours 2009.
- 15) Jenny Kanerva Anderson. **Cruz Motta, JJ** (Supervisor). Spatial analyses of fish assemblages associated with a coral reef in Venezuela. Msc. University of Lund, Sweden 2009.
- 16) Françoise Cavada. **Cruz Motta, JJ**; Bastidas, C. (Supervisor). Microalgae of the mucopolisaccharid layers of two families of corals (Faviidae). Msc 2009.
- 17) Alejandro Rincón. Díaz, Y.; **Cruz Motta, JJ** (Supervisor). Temporal and spatial variation of macro benthic assemblages associated to algae in intertidal rocky shores of "Paraguana". Honours 2008.
- 18) César Herrera. **Cruz Motta, JJ**; Klein, E (Supervisor). Cover, abundance and recruitment of macroalgae and sessile macroinvertebrates in intertidal rocky shores under the influence of upwelling. Honours 2007.

8 SCHOLARSHIPS AND AWARDS

- 1) 2009- 2013. Researcher in the national Promoting Research Program (Programa de Estímulo a la Investigacion). Currently in Level B.
- 2) 2012. Best lecturer award. Granted by the student union of Biology of USB
- 3) 2011. Best lecturer award. Granted by the student union of Biology of USB
- 4) 2010. Best lecturer award. Granted by the student union of Biology of USB
- 5) 2005 - 2009. Researcher in the national Promoting Research Program (Programa de Estímulo al Investigador, PEI). Currently in Level A.
- 6) 2005 – 2008: Honorary Associated Academic Staff of the Centre for Research on Ecological Impacts of Coastal Cities, USYD.
- 7) 2001 -2004. International Postgraduate research Scholarship (IPRS) granted by the DEYTA to pay for the enrolling fees to complete a PhD at the University of Sydney (Sydney, Australia).
- 8) 2001- 2004. IPA Scholarship granted by the University of Sydney to pay live expenses while doing PhD studies at the University of Sydney (Sydney, Australia).
- 9) 1997-2000. Postgraduate scholarship granted by: Gran Mariscal de Ayacucho Foundation (FundAyacucho) (Caracas, Venezuela), to complete an Msc at James Cook University.