



EUROPEAN CV



PERSONAL DETAILS

Name María Luisa FERNÁNDEZ CAÑAMERO
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Nationality Spanish
Date of birth 17th August 1959

WORKING DETAILS

- Dates (from – to) 1982 – 1983 (nine months)
• Name and address of employer Academia Alba
• Kind of company or industrial sector Private school
• Work position Teacher of Chemistry and Physics-Chemistry
• Main activities and responsibilities Teaching
- Dates (from – to) March 1984 – August 1985
• Name and address of employer Petrosín Mecánica SL
• Kind of company or industrial sector Private company for water treatment
• Work position Annalist Technician
• Main activities and responsibilities Analytical control of industrial and public supply waters, production and control of products for water treatment.
- Dates (from – to) January 1986 – December 1988
• Name and address of employer Vigo Town Council
• Kind of company or industrial sector
• Work position Annalist Technician
Collaborator in the Laboratory of the Official Veterinarian Services
• Main activities and responsibilities Bromatological, toxicological, microbiological and environmental analysis. Public health inspection to public premises.
- Dates (from – to) From February 1989 to June 2002
• Name and address of employer Community Reference Laboratory for Marine Biotoxins: Spanish Government Office in Galicia – Department of Public Health of Vigo.
- Kind of company or industrial sector
• Work position - Responsible for coordination of the European Reference Laboratories for Marine Biotoxins and responsible of connections with international experts
- Responsible for the Chemical Analysis Area.
- Responsible for Research



- Main activities and responsibilities
 - Responsible for coordination of the European Reference Laboratories for Marine Biotoxins and responsible of connections with international experts
 - Organization and coordination of the activities of European Reference Laboratories for marine biotoxins, meetings work groups, etc
 - Representation of the Community Reference Laboratory in Forums and International Committees: European Committee for Standardization (CEN), international conferences, round tables and workshops.
 - Training of technicians from European and third countries in the area of marine biotoxins control: knowledge and interpretation of Community legislation, analytical training, consultancy in laboratory quality systems according to Standard UNE-45001, ISO-17025 and Laboratory Good Practices.
 - Organization of training courses of marine biotoxins control with national and international scope as well as cooperation with other national and international institutions organizing courses of control and management of fisheries resources through the import of theoretic and practical lessons.
 - Technical support in situ to National and Third Countries Laboratories on the area of marine biotoxins control, including staff training on the development of analytical methods, consultancy in Quality Systems and establishment of control criteria similar to the European legislation in force.
 - Consultancy to European Commission on legislation, performing studies used as a background for the development of new aspects to be legislated or modified on marine biotoxins control.
 - Responsible for the Area of Chemical Analysis
 - Control of marine products coming from Third Countries through the analysis of parameters with health signification (physical-chemical marine biotoxins).
 - Development and implementation of complex instrumental methods applicable in health control and in research: Liquid Chromatography of High Efficacy with Ultraviolet Detection, Fluorimetry and Mass Spectrometry
 - Implementation of Management and Quality System: UNE 45001, ISO 17025, Good Practices of Laboratory.
 - Responsible for Research
 - Participation in research projects (check corresponding enclosed information).
- Dates (from – to) July 2002 – At present
- Name and address of employer Centro Tecnológico del Mar-Fundación CETMAR (Technological Centre of the Sea)
- Kind of company or industrial sector Public Foundation, non-profit-making-company
- Work position In charge of the Area of Marine environment/resources control and management
- Main activities and responsibilities Elaboration, coordination and management of studies, projects and activities concerning conservation, development and sustainable management of marine environment and resources.

EDUCATION AND TRAINING

- Dates (from – to) June 1982
- Name and kind or organism which offered the education or training University of Santiago de Compostela
- Degree obtained Degree in Chemical Sciences
- Dates (from – to) October 2001
- Name and kind or organism which offered the education or training University of Santiago de Compostela
- Dates (from – to) June 2007
- Degree obtained PhD in Chemical Sciences



- Main subjects or occupational abilities treated
Research work performed: Study of DSP toxins composition in planktonic and bentonic dinoflagellates of Galician Rías.
 - New methods of assessment and extraction of diarrheic toxins(DSP)
 - Microbiology of seafood products
 - Marine Biotoxins in bivalve molluscs of commercial interest
 - Pathologic alterations and immune system in bivalve molluscs
 - Phytotoxicity episodes in bivalve molluscs
- Degree obtained
Studies of doctorate within the program of PhD in Marine Biology and Aquaculture: Research capacity in Pharmacology guaranteed by the Diploma in Advanced Studies

PERSONAL ABILITIES AND SKILLS

MOTHER TONGUE

[Spanish and Galician]

OTHER LANGUAGES

- Reading [Excellent]
- Writing [Excellent]
- Oral expression [Excellent]

SOCIAL ABILITIES AND SKILLS

Abilities to work with other people, and net working skills. These skills haven specially acquired during years of working experience when it has been extremely important to be able to communicate with researchers, businessmen, managers and in general, people with very different profiles and from diverse working places.

TECHNICAL ABILITIES AND SKILLS

Basic knowledge as user: WordPerfect, Word, Excel, Power Point, Data Bases, Internet.

DRIVING LICENCE

Yes

OTHER ACTIVITIES

TRAINING AND EDUCATION COURSES

- Course on "Contamination and food control". Official College of Industrial Engineers. (5th to 8th April 1983).
- III Basic course for Consumption Instructors. Council Office for Consumer Information. Vigo Town Council. (30th de November to 5th de December 1987).
- Introduction to PC, Operative System MS-DOS and Data Bases DBASE III. Micros- Aula de Informática. (3rd February to 22nd June 1989).
- Course on Office Computerization: Operative System, Word Processor, Data Bases, Presentations. Microgal. March, 1993.
- Liquids Chromatography. Hewlett-Packard Spain , S.A. (27-29 June, 1989)
- Liquid Chromatography of High Efficacy and its applications on consumption and use products. National Institute of consumption. Ministry of Health and Consumption (28th-30th November 1990, 20 hours).
- Course on environment awareness. Official College of Chemists of Galicia. (2nd to 25th October 1990)
- Needs for a laboratory authorization. Food National Centre of Majadahonda. Madrid. (5th-6th November1997).
- Training Course for the MIST Diagnostic test Kit for identifying paralytic shellfish poison (PSP). Jellet BIOTEK Limited. June 1997.



- Course on Mass Spectrometry. LCQ DUO operator's training course. (11th to 15th de September 2000).
- Instrumental Methods for the Determination of Phycotoxins in Seafood and Freshwaters. Cork Institute of Technology. (30th August to 9th September 2000).
- Standard ISO 17025 and uncertainty determination. ASECAL. Ministry of Health and Consumption. Madrid. (3rd to 4th December 2001).
- *Course on consultancy principles* . CETMAR – Vigo. Grupo PIREO (October 2004)

TRAINING INTERNSHIPS

- Institut Francais de Recherche pour L'Exploitation de la Mer (IFREMER). Nantes, Francia. 17th August to 1st September 1990.

PUBLICATIONS

G. ALVAREZ, E. CUQUEJO, M.LUIS, **ML FERNANDEZ** . Estudio bromatológico de croissants recogidos en establecimientos de hostelería en Vigo. Diciembre 1986. Alimentaria, 34-39

G. ALVAREZ, E. CUQUEJO, M.LUIS, E CAMBEIRO, **ML FERNANDEZ**. Calidad de vinos comunes expendidos en establecimientos de hostelería en Vigo. Mayo 1988 . Alimentaria , 48-61.

G. ALVAREZ, E. CUQUEJO, M.LUIS, **ML FERNANDEZ**. Cesión de plomo por vasijas de barro vidriado empleadas para uso alimentario. Mayo 1989. Anales de Bromatología XLI-1, 87-101.

G. ALVAREZ, E. CUQUEJO, M.LUIS, E CAMBEIRO, **ML FERNANDEZ**. Octubre 1993. Calidad de vinagres recogidos en establecimientos de alimentación del término municipal de Vigo. Alimentaria , 48-61

ML FERNANDEZ. Estudios de toxicidad en arrastres de *Dinophysis spp.* Resultados preliminares. 1993. En: Tercera Reunión Ibérica sobre fitoplancton tóxico y biotoxinas. Ed. Xunta de Galicia, Santiago de Compostela, pp 94-96.

MARTÍNEZ, B. REGUERA, **M.L. FERNÁNDEZ**, A. MÍGUEZ Y E. CACHO. 1991. Spatial distribution of PSP toxicity in the mussels rafts of the Galician Rias: some management strategies. Ed. CNEVA, Paris, pp: 211-215

REGUERA, I. BRAVO, C. MARCAILLOU-LEBAUT, P. MASSELIN, **M.L. FERNÁNDEZ**, A. MÍGUEZ Y A. MARTÍNEZ. 1993. Monitoring of *Dinophysis spp.* and vertical distribution of okadaic acid on mussel rafts in Ria de Pontevedra (NW Spain). Ed. Elsevier, New York, pp 553-558.

J. BLANCO, **M.L. FERNÁNDEZ**, J. MARIÑO, B. REGUERA, A. MÍGUEZ, J. MANEIRO, E. CACHO Y A. MARTÍNEZ. 1995. From *Dinophysis spp.* toxicity to DSP outbreaks: a preliminary model of toxin accumulation in mussels. Eds. P.Lassus, G.Arzul, E. Erard-Le Denn, P.Gentien, C. Marcaillou-Le Baut, Lavoisier, Paris. pp 777-782.

A.MARTÍNEZ, A. MÍGUEZ, E. CACHO Y **M.L.FERNÁNDEZ**. 1996. Control sanitario de biotoxinas marinas en la Unión Europea. Estandarización de los métodos de análisis. ED. Generalitat de Catalunya, Barcelona. pp 105-112.

M. L. FERNÁNDEZ. 1996. Detección de toxinas DSP por HPLC. Complejidad de los perfiles tóxicos . Alternativas. ED. Generalitat de Catalunya, Barcelona. pp 159-165.

M.L. FERNÁNDEZ, A. MÍGUEZ, E. CACHO Y A. MARTÍNEZ. 1996. Sanitary control of marine biotoxins in the European Union. National Reference Laboratories Network. In "Harmful and Toxic Algal Blooms". Eds. T.Yasumoto, Y Oshima, Y Fukuyo, eds. IOC of UNESCO, Paris, pp: 11-14.



A.MIGUEZ, **M.L. FERNANDEZ**, S.FRAGA. 1996. First detection of Domoic acid in Galicia. In "Harmful and Toxic Algal Blooms". Eds. T.Yasumoto, Y Oshima, Y Fukuyo, eds. IOC of UNESCO, Paris, pp: 143-145.

M.L. FERNÁNDEZ, A. MÍGUEZ, E. CACHO Y A. MARTÍNEZ.1996. Detection of okadaic acid esters in the hexane extracts of Spanish mussels. *Toxicon*, 3, 381-387.

M.L. FERNÁNDEZ, A.CEMBELLA. 1995. Mammalian bioassays. In " IOC manuals and guides".Vol. 33, UNESCO, Paris, pp 213-218.

M.L. FERNÁNDEZ. Phycotoxins: regulatory limits and effects on trade. 1998. In " Mycotoxins and Phycotoxins: developments in Chemistry, Toxicology and Food Safety". Eds. M.Miraglia, HP van Egmond, C. Brera, J.Gilbert, ALAKEN,Inc., USA pp 503-516.

A.MARTÍNEZ, **M.L. FERNÁNDEZ**, A. MÍGUEZ. 1997. Situación actual de los métodos de análisis y criterios de tolerancia en la Unión Europea. Acuerdos alcanzados por la red de Laboratorios Nacionales de Referencia de la UE. Futuras actividades. En: Actas de la V Reunión Ibérica sobre fitoplancton tóxico y biotoxinas. Ed. ANFACO-CECOPECA, Vigo, pp 139-147.

M.L.FERNANDEZ, B.REGUERA, I.RAMILO, A.MARTINEZ.1999. Toxinología de *Dinophysis acuta*, *D.caudata* y *D.acuminata* de las Rias Gallegas. En: Actas de la VI Reunión Ibérica sobre Fitoplancton Tóxico y Biotoxinas. Ed. Consejería de Pesca y Agricultura. pp:127-137.

A.MIGUEZ, **M.L. FERNANDEZ**, E.CACHO, A.MARTINEZ. 1999. Control sanitario de toxinas marinas: Acuerdos y actividades de la red de Laboratorios Europeos Nacionales de Referencia. En: Actas de la VI Reunión Ibérica sobre Fitoplancton Tóxico y Biotoxinas. Ed. Consejería de Pesca y Agricultura. pp:199-206.

M.L. FERNÁNDEZ, A. MÍGUEZ, A. MOROÑO, E. CACHO, A. MARTÍNEZ , J.BLANCO. 1997. Detoxification of low polarity toxins (DTX3) from mussels *mytilus galloprovincialis* in Spain. In: "Harmful Algae". Eds. B.Reguera, J. Blanco, M.L. Fernandez, T. Wyatt. Xunta de Galicia-Unesco. Santiago de Compostela. pp 449-452.

A. MÍGUEZ, **M.L. FERNÁNDEZ**, E. CACHO Y A.. MARTINEZ. 1997. Mouse survival time as toxicity criterion. In: "Harmful Algae".Eds. B.Reguera, J. Blanco, M.L. Fernandez, T. Wyatt. Xunta de Galicia-Unesco. Santiago de Compostela. pp 239-240.

A.MOROÑO, **M.L. FERNÁNDEZ**, J. FRANCO, A. MARTÍNEZ, M.I. REYERO, A. MÍGUEZ, E. CACHO Y J.BLANCO.1997. PSP and DSP detoxification kinetics in mussel extracts of Spanish mussels *mytilus galloprovincialis*: effect of environmental parameters and body. In: "Harmful Algae".Eds. B.Reguera, J. Blanco, M.L. Fernandez, T. Wyatt. Xunta de Galicia-Unesco. Santiago de Compostela. pp 445-448.

A GARCIA, M.T. FERNANDEZ, M. I REYERO, J. FRANCO, K HAYA, J MARTIN, V. ZITKO, C. SALGADO, F. AREVALO, M. BERMUDEZ, **M.L FERNANDEZ**, A. MIGUEZ. 1997. Detection of PSP, ASP and DSP toxins by neuronal bioassay. comparison with HPLC and mouse bioassay. In: "Harmful Algae".Eds. B.Reguera, J. Blanco, M.L. Fernandez, T. Wyatt. Xunta de Galicia-Unesco. Santiago de Compostela. pp 554-557.

S. FRAGA, M. J. ALVAREZ, A. MIGUEZ, **M.L FERNANDEZ**, E. COSTAS, V. LOPEZ RODAS.1997. *Pseudo-nitzschia* species isolated from Galician waters. In: "Harmful Algae".Eds. B.Reguera, J. Blanco, M.L. Fernandez, T. Wyatt. Xunta de Galicia-Unesco. Santiago de Compostela. pp 270-273.

M.L. FERNANDEZ, A. MÍGUEZ, E. CACHO Y A. MARTÍNEZ. Internacional Regulatory Approaches for Seafood Biotoxins. 1999. IN: Foodborne Illness. Faculdade de Ciencias da Nutricao e Alimentacao da Universidade do Porto (Ed.). pp 99-112.

J BLANCO, **M.L FERNANDEZ**, A MIGUEZ, A. MOROÑO. 1999. Okadaic acid depuration in the mussels *mytilus galloprovincialis* : one and two compartment models and the effect of environmental conditions. *Marine Ecology Progress Series* 176, 153-163.

M.L.FERNANDEZ. 2000. Regulations for marine microalgal toxins: towards harmonization of methods and limits. *South African Journal of Marine Science* 22, 339-346.

I.MANEIRO, M.FRANGOPULOS, C.GUISANDE, **M.L.FERNANDEZ**, REGUERA, I. RIVEIRO. 2000. Zooplankton as a potential vector of Diarrhetic Shellfish Poisoning toxins through the food web. *Marine Ecology Progress Series* 201, 155-163.

M.L.SOUTO,J.J. FERNÁNDEZ, M. NORTE, **M.L. FERNÁNDEZ** Y A..MARTINEZ. 2001. Influence of aminoacids on okadaic acid production. *Toxicon* 39, 659-664.



- I BRAVO, **M. L. FERNÁNDEZ**, I RAMILO, A MARTINEZ. 2001. Toxin composition of the toxic dinoflagellate *Prorocentrum lima* isolated from different locations along the Galician coast (NW Spain). *Toxicon* 39, 1537-1545.
- M.L. FERNÁNDEZ**, J.DIOGENE. 2002 Bioensayos con mamíferos y ensayos bioquímicos y celulares para la detección de toxinas marinas. En : *Floraciones algales nocivas en el Cono Sur Americano*. E.A.Sar. M. Ferrario, B.Reguera. Monografías del Instituto Español de Oceanografía. Paris. (EN PRENSA),
- M. L. FERNÁNDEZ**, D.RICHARD, A.CEMBELLA. 2002. Mammalian Bioassays. In " IOC manuals and guides".2nd edition UNESCO, Paris, IN PRESS.
- M. L. FERNÁNDEZ**, S.SHUMWAY. 2002. Management of Shellfish Resources. In " IOC manuals and guides".2nd edition UNESCO, Paris, IN PRESS.
- A.MOROÑO, F.AREVALO, **M.L. FERNÁNDEZ**, J.MANEIRO, Y.PAZOS, C.SALGADO, J.BLANCO. 2003. Accumulation and transformation of DSP toxins in mussels *Mytilus galloprovincialis* during a toxic episode caused by *Dinophysis acuminata*. *Acuatic Toxicology*, 62, 269-280.
- M.L. FERNÁNDEZ**, Áurea Míguez, Ana Martínez, Angeles Moroño, Fabiola Arévalo, Yolanda Pazos, Covadonga Salgado, Jorge Correa, Juan Blanco, Sonsoles González-Gil, Beatriz Reguera. 2003. UNESCO, Santiago. First report of Pectenotoxin-2 phytoplankton net-hauls and mussels from the Galician Rías Baixas (NW Spain) during proliferations of *Dinophysis acuta* and *Dinophysis caudata*. In: "Molluscan Shellfish Safety". 75-86.
- M.L. FERNÁNDEZ**, Áurea Míguez, Emiliano Cacho, Ana Martínez. 2003. European approaches to marine toxin control. Towards harmonization. In: "Molluscan Shellfish Safety". 159-168.
- ANA BRAÑA MAGDALENA, MARY LEHANE, SOPHIE KRYS, **M. LUISA FERNÁNDEZ**, AMBROSE FUREY, KEVIN J. JAMES. 2003. The first identification of azaspiracids in shellfish from France and Spain. *TOXICON*, 42, 105-108
- M.L. FERNÁNDEZ**, Hans van Egmond. 2004. European approaches to marine toxin and harmonisation, In "*Harmful Algae Management and Mitigation*", 77-83.
- Beatriz Paz Pilar Riobó, **M.L. FERNÁNDEZ**, Santiago Fraga, José M. Franco. 2004. Production and release of yessotoxins by the dinoflagellates *Protoceratium reticulatum* and *Lingulodinium polyedrum* in culture. In "*Toxicon*" 44, 251-258.
- FERNÁNDEZ, M.L.**, B. Reguera, I. Ramilo & A. Martínez. (2000). Toxinología y contenido tóxico de *Dinophysis acuminata*, *D. acuta* y *D. caudata* de las Rías Bajas Gallegas. In VI Reunión Ibérica sobre Fitoplancton Tóxico y Biotoxinas. Actas de la Reunión (Sevilla, 5-7 Mayo 1999). Junta de Andalucía. Congresos y Jornadas Nº 55/00, pp. 127-137.
- FERNÁNDEZ, M.L.**, Reguera, B., Ramilo, I., and Martínez, A. (2001). Toxin content of *Dinophysis acuminata*, *D. acuta* and *D. caudata* from the Galician Rías Bajas. In: *Harmful Algal Blooms*. Hallegraef, G., Blackburn, S., Lewis, R., and Bolch, C. (eds.) Intergovernmental Oceanographic Commission of UNESCO, pp. 360-363.
- FERNÁNDEZ M.L.**, Míguez A., Martínez A., Moroño A., Arévalo F., Pazos Y., Salgado C., Correa J., Blanco J., González-Gil S. & Reguera B. (2003). First report of pectenotoxin-2 in phytoplankton net-hauls and mussels from the Galician Rías Baixas during proliferations of *Dinophysis acuta* and *D. caudata*. In: Villalba A., Reguera B., Romalde J. & Beiras R. (eds.) *Molluscan Shellfish Safety*. Consellería de Pesca e Asuntos Marítimos da Xunta de Galicia and Intergovernmental Oceanographic Commission of UNESCO, Santiago de Compostela, Spain, pp. 75-83.
- Reguera, B., **M.L. FERNÁNDEZ**, A. Aguilera, S. González-Gil, E. Garcés, M. Delgado & I. Marín. *Biología, autoecología y toxinología de Dinophysis spp.*: Resultados del proyecto DINOPHYSIS 2000. En: M. Norte y J.J. Fernández (Eds.), VIII Aula Ibérica sobre Fitoplancton Tóxico y Biotoxinas, CAMPUS, La Laguna, pp. 77-90
- FERNÁNDEZ, M.L.**, Reguera, B., Ramilo, I., and Martínez, A. Toxin content of *Dinophysis acuminata*, *D. acuta* and *D. caudata* from the Galician Rías Bajas. *IX International Conference on Harmful Algal Blooms*, Hobart (Tasmania), 7-11 febrero de 2000. Book of Abstracts, p.116. Poster
- FERNÁNDEZ, M. L.**, Aúrea Míguez, Ángeles Moroño, Fabiola Arévalo, Yolanda Pazos, Covadonga Salgado, Jorge Correa, Juan Blanco, Sonsoles González-Gil and Beatriz Reguera. First report of Pectenotoxin-2 in phytoplankton from the Galician Rías Bajas during proliferations of *Dinophysis* spp. *IV International Conference on Molluscan Shellfish Safety*, Santiago de Compostela, 4-8 Junio de 2002.



Book of Abstracts, p. 52. Poster

FERNÁNDEZ, M.L., B. Reguera, S. González-Gil and A. Míguez. First report of Pectenotoxins in isolated *Dinophysis caudata* cells determined by Liquid Chromatography - Mass Spectrometry. *X International Conference on Harmful Algae*, St. Petersburg, Florida, 21-25 Octubre de 2002 Book of Abstracts, p. 91. Poster.

Blanco, J., Morofío A., **FERNÁNDEZ, M.L.**, Toxic episodes in shellfish, produced by lipophilic phycotoxins: an overview. 2005. Revista Galega dos Recursos Mariños.

FERNÁNDEZ, M.L., B. Reguera, S. González-Gil and A. Míguez. Pectenotoxin-2 in single-cell isolates of *Dinophysis caudata* and *Dinophysis acuta* from the Galician Rías (NW Spain). *Toxicon*, 48 (2006) 477-490

TEACHING OF INTERNATIONAL AND NATIONAL COURSES

Guest teacher in:

Friedrich Shiller University. Jena. IOC-UNEP-WHO-FAO Training Course on Qualitative and Quantitative Determination of Algal Toxins. Germany. 18th to 28th October 1994.

University of Copenhagen, August, 1995. IOC-DANIDA Course on the taxonomy and biology of harmful marine phytoplankton.

Title: Analytical methods for determination of marine algal toxins: sanitary control in the European Union, regulations and National Reference Laboratory Network.

University of Trieste, Italy, 1995. IOC-UNEP-WHO-FAO-Italy Training Course on Toxin Chemistry and Toxicology related to Harmful Algae.

Title: Analytical methods for determination of ASP toxins.

University of Paris. 1996. Post- doctoral Course: Microalgae toxinogenic. Impact on Ecosystems, Aquaculture and Human Health.

Title: Sanitary control of marine biotoxins in the European Union.

University of Vigo. Summer Courses. Marine biotoxins. July 1993.

Title: Instrumental methods for the Analysis of Marine Biotoxins.

COI-IEO Scientific and Communication Centre on Harmful Algae. Spanish Institute of Oceanography of Vigo. Course: Toxic phytoplankton: usual methods in the analysis of marine phycotoxins. June 1997.

Title: Introduction to syndromes associated to harmful algae. DSP Introduction to toxins detection and quantification methods.

COI-IEO Scientific and Communication Centre on Harmful Algae. Spanish Institute of Oceanography of Vigo. Course: Toxic phytoplankton: toxic microalgae cultures in research and surveillance programs. June 1998.

Title: Health control of marine toxins.

High Council of Scientific Research. Institute of Marine Research.

Course: Evolution of quality in marine products processing. September 1998.

Title: Toxicological issues on marine toxins.

COI-IEO Scientific and Communication Centre on Harmful Algae. Spanish Institute of Oceanography of Vigo Course: Toxic phytoplankton: microalgae cultures in research and surveillance programs. June 1999.

Title: Health control of DSP toxins

Extraction and quantification of DSP through HPLC and bio-test in mice.

COI-IEO Scientific and Communication Centre on Harmful Algae. Spanish Institute of Oceanography of Vigo

Course: IV Course COI-AECI-IEO on toxic microalgae and phycotoxins. June 2000.

Title: DSP. Syndrome description. Analytical methods for toxins detection and quantification. DSP extraction and quantification through HPLC and bio-test in mice.



COI-IEO Scientific and Communication Centre on Harmful Algae. Spanish Institute of Oceanography of Vigo Course: V Course COI-AECI-IEO on toxic microalgae and phycotoxins. June 2001.

Title: Detection and quantification methods of lyposoluble toxins.

AECI-CETMAR. Spanish Agency of International Cooperation. Centro Tecnológico del Mar.

Course: I Seminar on Fisheries Management for Señor Officers From Sub-Saharan Africa. Vigo March 2003

Title: "Red Tides" and "Marine Contamination"

CENTRO JOVELLANOS (SASEMAR) –CETMAR

Cursos de Prevención y Lucha contra la Contaminación- Nivel operativo básico.

La Coruña, 16-18 de Enero 2006 y La Coruña, 19-21 de Enero 2006

CONGRESSES AND CONFERENCES

Papers and oral communications:

Influence of physical-chemical parameters in growth and production of toxin *Prorocentrum lima*. II Iberian Meeting on Toxic Phytoplankton and toxicity in bivalve molluscs. Lisbon, 1992.

Studies of toxicity in dragging of *Dinophysis spp.* Preliminary results. III Iberian Meeting on Toxic Phytoplankton and Biotoxins. Vilaxoan, 20th-22nd April, 1993.

DSP toxins detection by HPLC. Complexity of toxic profiles . Alternatives. IV Iberian Meeting on Toxic Phytoplankton and Biotoxins . Tarragona, 1995.

Marine toxins: Present situation of analysis methods and tolerance criteria in the European Union. Agreements established by the European network of national reference laboratories. Future activities.V Iberian Meeting on Toxic Phytoplankton and Biotoxins. ANFACO-CECOPECA, Vigo, February 1997.

CONTINMAR: tools for contingency planning in marine oil spills. "Symposium on Marine Accidental Oil Spills -VERTIMAR-2005" Vigo (Spain) 13th - 16th July 2005

Guest lecturer in:

VII International Conference on Toxic Phytoplankton. Sendai, Japón, Julio 1995

Title of lecture: Health Control of Marine Biotoxins in the European Union. National Reference Laboratory Network.

IX IUPAC Mycotoxins and Phycotoxins Symposium. Roma, Italia, 1996.

Title of lecture: Phycotoxins: Regulatory Limits and Effects on Trade.

International Symposium and Workshop on Harmful Algal Blooms in the Benguela Current and other Upwelling Ecosystems. Swakopmund, Namibia, 1998.

Title of lecture: Regulations for the Control of Marine Microalgal Toxins. Towards harmonization of methods and limits.

I International Conference on Harmful Algae Mitigation and Management. Asian Pacific Economic Conference. Subic Bay, Philippines, Mayo 1999.

Title of lecture: European Programmes for the Management of Marine Biotoxins in Seafood.

Foodborne Illness. Porto. 28-29 Mayo 1999.

Title of lecture: Regulatory Approaches for Seafood Biotoxins.

International Seminar on Red Tides, Puerto Varas, Chile, August 1999.

Title of lecture: Health Control of Marine Products in the European Union.



III International Conference on Molluscan Shellfish Safety, Southampton, New York, USA, Junio 2000.

Title of lecture: European Approaches for Marine Toxin Control

II International Conference on Harmful Algae Mitigation and Management. Asean Pacific Economic Conference. Qingdao, China, November, 2001.

Title of lecture: European Approaches for Marine Toxin Control: activities of the network of European Reference Laboratories.

Seminar on "Best Practise in Local Contingency Planning Pollution Response - Maritime Safety Umbrella Operation – 16th December 2005 Southampton (United Kingdom)

Title of lecture: Local Contingency Planning. EROCIPS findings.

Round tables:

Chairmanship. VII International Conference on Toxic Phytoplankton. Sendai, Japón, July 1995.

Title: Standardization of DSP methods

Panellist in round table of the III International Conference on Molluscan Shellfish Safety, Southampton, New York, USA, Junio 2000.

Panellist in round table: "Shellfish Phycotoxins, Current Regulations and Possibilities of International Harmonisation". IV International Conference on Molluscan Shellfish Safety". Santiago de Compostela, June 2002

Scientific Table for the elaboration of the "Guide of Reference and Selection of Bioremediation in marine environments. Workshop on Marine Bioremediation Technologies, Cádiz. July 2002..

Session chairmanship:

- IX IUPAC Mycotoxins and Phycotoxins Symposium. Roma, Italia, 1996
- II International Conference on Harmful Algae Management and Mitigation. Qingdao, China, November, 2001.
- I Seminar on Regional Cooperation in Maritime Safety. Maritime Safety Umbrella Operation Programme (Interreg IIIB)
- Workshop "Preparing & Responding: Contingency arrangements and responding to incidents". Maritime Safety Umbrella Operation 26th – 27th 2005. Antwerpen (Belgium)

WORKSHOPS

Guest expert in:

- "Algal Toxin Workshop". Fisheries Research Centre. Dublin, Ireland, 1995. Organized by the Marine Institute.
- "Workshop on Phytoplankton Monitoring". Limerick, Ireland, November, 2000. Organized by the Marine Institute.
- "Meeting on Biotxin Monitoring and Research". Dublin, February, 2001. Organized by the Marine Institute.
- "Some aspects of the environmental impact of aquaculture in sensitive areas", Brussels, February, 2006. Organized by Poseidon Aquatic Resource Management in the Framework of the study ref. Fish /2004/15:

EXPERIENCE IN MEETINGS AND CONGRESSES ORGANIZATION



- I Meeting of the European National Reference Laboratories on Marine Biotoxins. Vigo, March 1996. International scope.
- II Meeting of the European National Reference Laboratories on Marine Biotoxins. Vigo, November 1998. International scope.
- III Meeting of the European National Reference Laboratories on Marine Biotoxins. Vigo, March 2000. International scope.
- IV Meeting of the European National Reference Laboratories on Marine Biotoxins. Vigo, October 2001. International scope.
- VIII International Conference on Harmful Algae. Vigo, June 1997. International scope.
- V International Conference on Molluscan Shellfish Safety, Santiago de Compostela, June 2002. International scope
- I Seminar on Imports of Seafood and Aquaculture Products. Vigo, March 2003 International scope.
- II Seminar on Imports of Seafood and Aquaculture Products. Vigo, June 2004 International scope
- CONFERENCE “Considerations on the risks of maritime transport for coastal areas: hydrocarbons, chemical and food products, containers and wastes” offered by Michel Girin, Director of CEDRE (Centre de Documentation de Recherche et D’experimentations sur les Pollutions Accidentelles des Eaux, Francia). Vigo, January 2004. Regional scope
- Workshop on Environmental Damage. Vigo, July 2005. International scope.
- I Seminar on Biotechnological upgrading of marine resources (VALBIOMAR). Vigo, May 2005. International scope.
- II Seminar on Biotechnological upgrading of marine resources (VALBIOMAR). Vigo, 17 November 2005. International scope.
- Seminar on “Obtention of bioactive molecules form marine hidrolizates. (III Seminario VALBIOMAR). Vigo, May 2006. International scope.
- Seminar on Molecules from algae, invertrabrates and marine microorganisms. (IV Seminario VALBIOMAR). Vigo, October 2006. International scope.
- Workshop on Operacional Oceanograpy: Capabilities and Needs.(PREVECMA Network). Ministerio de Educación y Ciencia. Madrid. December 2007.National scope
- Workshop on “Information Management during an Emergency” (PREVECMA Network). Ministerio de Educación y Ciencia. Madrid. March 008. Nacional Scope.
- Workshop on “Waste Management in Ports and Coasts” (PREVECMA Network). CETMAR, Vigo. November 2008. Nacional Scope
- Workshop: “Preparedness and Response to HNS spills ” CETMAR, Vigo. Nacional Scope.

Editorial works:

- Proceedings of the VIII International Conference on Harmful Algae.Vigo, June 1997. International scope. Co-editor.
- Evidencias e Impactos del Cambio Climático en Galicia. 2009. Xunta de Galicia, Consellería de Medio Ambiente y Desarrollo Sostenible.



WORKING GROUPS

Organization and chairmanship in cooperation with European Commission in:

- Working Group on DSP toxins. Brussels, November 1998
- Working Group on Phosphatase Inhibition Assays. Brussels, December 1998
- Working Group on Neuroblastoma. Brussels, December de 1998
- Working Group on Azaspiracids. Brussels, March 1999.
- Working Group on DSP and Azaspiracids. Brussels, May 2001.
- Working Group on Sampling Plans. Brussels, October 2001-12-21

Guest expert in:

- Veterinary Legislation. Marine Biotoxins. European Commission, Brussels, May 1997.
- Working group on Draft Decision on Marine Biotxin in Bivalve molluscs. European Commission, Brussels, October 2001

PARTICIPATION IN INTERNATIONAL COMMITTEES

- Member of the Scientific Committee of the IX IUPAC Mycotoxin and Phycotoxin Symposium
- Member of the International Steering Committee in:
 - I International Conference on Harmful Algae Management and Mitigation, Filipinas, 1999.
 - I International Conference on Harmful Algae Management and Mitigation, Qingdao, China, 2001.
- Member of the Workgroup on Marine Phycotoxins of the European Committee for Standardization (CEN). Meetings fo the CEN Workgroup:
 - Paris. May 1997
 - Ispra, May 1998
 - Milan, May 1999
 - The Hague, April, 2000
 - York, March, 2001.



PARTICIPATION IN R&D PROJECTS (in bold, those coordinated by María Luisa Fernández)

- **Title:** Study of toxicity produced by dinoflagellates and the molluscs they contaminate in Galician *Rías*.

Financed by: Fund of health research. Ministry of Health and Consumption.

Participants: University of Santiago, Sanidad Exterior of Vigo, Sanidad Exterior of A Coruña, Spanish Institute of Oceanography

Duration: From 1989 to 1991.

Main researcher: Ana Martínez Fernández

- **Title:** Toxins responsible of DSP red tides. Achievement of pure patterns. Development of methods for chemical analysis and biosintetic origin of the tides.

Financed by: Interministerial Commission of Science and Technology

Participants: University of La Laguna, Sanidad Exterior of Vigo

Duration: From 1995 to 1998.

Main researcher: Manuel Norte Martín.

- **Title:** Environmental control of toxins growth and production by toxic dinoflagellates.

Financed by: Interministerial Commission of Science and Technology

Participants: University of Vigo, Sanidad Exterior of Vigo, Spanish Institute of Oceanography.

Duration: From 1996 to 1999.

Main researcher: Beatriz Reguera Ramírez

- **Title:** Risk assessment of amnesic poisoning caused by marine phytoplankton.

Financed by: Interministerial Commission of Science and Technology

Participants: University of La Laguna, Sanidad Exterior of Vigo, Spanish Institute of Oceanography.

Duration: From 1996 to 1999.

Main researcher: Santiago Fraga Rivas

- **Title:** Bioactive marine products: isolated antitumoral substances from macro and microorganisms. Alternatives for the detection of red tides.

Financed by: Ministry of Education and Culture, R & D National Program

Participants: University of La Laguna, Sanidad Exterior of Vigo

Duration: From 1998 to 2001.

Main researcher: Manuel Norte Martín

- **Title:** Biology of dinoflagellates genus *Dinophysis*, agents of diarrhetic intoxications: morphologic and genetic variability, growth and toxicity.

Financed by: Ministry of Education and Culture, R & D National Program

Participants: Spanish Institute of Oceanography, Sanidad Exterior of Vigo, Centre of Molecular Biology

Duration: From 1999 to 2002.

Main researcher: Beatriz Reguera Ramírez

- **Title:** Identification and quantification of lyposoluble toxins of marine organisms.

Financed by: Ministry of Education and Culture, National program of R&D



Participants: University of la Laguna, Sanidad Exterior of Vigo

Duration: From 1999 To 2002.

Main researcher: Manuel Norte Martín

- Title: Development of items, tools, performance protocols, and an information system for the design of contingency plans before marine spillage.

Financed by: Ministry of Science and Technology

Participants: CETMAR, SOCIEDAD DE SALVAMENTO MARITIMO-SASEMAR (Society of maritime rescue), CENTRO DE CONTROL DE CALIDAD DEL MEDIO MARINO (Centre for the Quality control of Marine Environment) belonging to the Regional Fisheries Department, CENTRO DE INVESTIGACIONES MARINAS (Centre for Marine Research, belonging to the Regional Fisheries Department), INSTITUTO ESPAÑOL DE OCEANOGRAFIA-IEO (Spanish Institute of Oceanography), ESCUELA TEC. SUPERIOR DE INGENIEROS NAVALES (High Technical School of Naval Engineers, belonging to the Polytechnic University of Madrid), INSTITUTO DE INVESTIGACIONES MARINAS-CSIC (Institute for Marine Research), DEPARTAMENTO DE FISICA APLICADA (Department of Applied Physics, belonging to University of Vigo), DEPARTAMENTO DE INGENIERIA QUÍMICA (Department of Chemical engineering, belonging to University of Vigo), AUTONOMOUS UNIVERSITY OF BARCELONA, UNIVERSITY OF BURGOS, UNIVERSITY OF SALAMANCA, INSTITUTO GALLEGO DE CERÁMICA (Galician Institute of Ceramics, belonging to the University of Santiago), INSTITUTO UNIVERSITARIO DE ESTUDIOS E DESENVOLVEMENTO GALEGO (University Institute of Studies and Galician Development, belonging to University of Santiago), *CENTRE DE DOCUMENTATION, DE RECHERCHE ET D'EXPERIMENTATIONS SUR LES POLLUTIONS ACCIDENTELLES DES EAUX* (CEDRE-FRANCE)

Duration: From: 2004 to: 2006 Amount of the subsidy: 628370 €

Main researcher: Rosa M^a Chapela Pérez

- Title: Technological adaptation of *Martialia Hyadesi* (Cephalopoda ommastrephidae) for its use as a resource of raw material in certain frozen seafood processing.

Financed by: Regional Department of Industry of Xunta de Galicia

Participants: CETMAR, Department of Biochemistry and Molecular Biology. Faculty of Veterinary. Lugo Campus. University of Santiago de Compostela. Research Group of Fish Larvae Biology and Physiology belonging to The Institute of Marine Research in Vigo (IIM-CSIC).

Duration: From: 2003 to: 2006

Main researcher: Julio F. Maroto Leal

- Title: Analytical upgrading of Snow Crab (*Chionoecetes opilio*) for its use in feeding stuffs for aquaculture

Financed by: Regional Department of Industry of Xunta de Galicia

Participants: CETMAR, Department of Analytic Chemistry, Nutrition and Bromatology, Faculty of Pharmacy, University of Santiago de Compostela. Acuinuga S.L. Hermanos Gandón SA.

Duration: From: 2003 to: 2006

Main researcher: Julio F. Maroto Leal

- Title: Biotechnological upgrading of marine resources

Financed by: European Union

Participants: CETMAR, University of la Rochelle, Reseau des Universités de l'Ouest Atlantique, Museum National d'Histoire Naturelle, IFREMER, Université de Nantes-ISOMER, Université de Bretagne Sud, Université de Bretagne Occidentale, Technopole Quimper-Cornouaille, INIAP/IPIMAR, ALICONTROL, Integrin Advanced Biosystems Ltd, University of la Laguna.

Duration: From 2003 To 2006

Main researcher: J.M. Piot

- Title: System for the integral management of the wastes produced by the mussel cultured in rafts and longlines.

Financed by: European Union – D. G. Environment

Participants: CETMAR, D.G. de Recursos Marinos Xunta de Galicia, Consello Regulador de la Denominación de origen Mejillón de Galicia, Organización de Productores Mejilloneros de Galicia

Duration: From 2004 To 2007

Main researcher: María Luisa Fernández Cañamero



- Title: The emergency response to coastal oil, chemical and inert pollution from shipping

Financed by: European Union – Community Initiative programme Interreg III B « ATLANTIC AREA »

Participants: CETMAR, Devon County Council; Dorset County Council; Conseil Regional Bretagne; Conseil Regional Aquitaine; IFREMER; CEDRE; Consellería de Pesca; Consellería de Medio Ambiente; Meteogalicia; Instituto Español de Oceanografía.

Duration: From 2004 To 2007

Main researcher: Richard Hill

- Title: Purification of diarrheic toxins (DSP) in mussel *Mytilus galloprovincialis* and amnesic toxins in scallop *Pecten maximus*

Financed by: Consellería de Industria of Xunta de Galicia under PGIDIT 2002-2005

Participants: . CETMAR, CIMA, INTECMAR

Duration: From 2004 To 2007

Main researcher: Juan Blanco

- Title: Approach to a sustainable exploitation of carrageenan seaweed resources in Galicia and Ireland

Financed by: European Union - Community Initiative programme Interreg III C - AQUAREG

Participants: CETMAR, Dirección xeral de Recursos Mariños Xunta de Galicia, Universidad de Santiago de Compostela, Irish Seaweed Centre, Martin Ryan Institute Galway,

Duration: From: 2004 to: 2006

Main researcher: Luis M. Rodríguez González

- Title: Guide of imports of aquaculture and fishery products

Financed by: Caixa Galicia

Participants: CETMAR, Sanidad Exterior (Governmental Department in charge of the control of imports in Spain)

Main researcher: María Luisa Fernández Cañamero

- Title: Mitigation of environmental impacts of marine cultures

Financed by: Junta Nacional Asesora de Cultivos Marinos (JACUMAR)

Participants: CETMAR; Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario; Dirección General de Pesca y Acuicultura (Junta de Andalucía); Empresa Pública Desarrollo Agrario y Pesquero (DAP); Instituto Canario de Ciencias Marinas; Dirección Xeral de Recursos Mariños (Xunta de Galicia; Instituto de Investigaciones Tecnológicas (Universidad de Santiago);

Duration: From 2005 To 2008

Main researcher: Felipe Aguado Jiménez

- Title: Spill response experience coordination action (SPREEX)

Financed by: 6th Framework programme for research technological development and demonstration European Commission

Participants: CETMAR, Organismo Público Puertos del Estado, SASEMAR – Centro Jovellanos, GTW, CIT, CEDRE, SINTEF, DHI.

Duration: From 2004 To 2006

Main researcher: Organismo Público Puertos del Estado

- Title: Benign and environmentally friendly fish processing practices to provide added value and innovative solutions for a responsible and sustainable management of fisheries

Financed by: Programa LIFE Medio ambiente – Comisión Europea

Participants: CSIC, CETMAR, Espaderos del Atlántico, S.A., PEIXESPORT, S.L., Institute Français de Recherche pour L'exploitation de la Mer (Francia), Instituto de Investigaçao das Pescas e do Mar (Portugal).

Duration: From 2005 To 2008

Main researcher: CSIC

- Title: Maritime governance and technology consortium

Financed by: Maritime Safety Umbrella Operation (MSUO) - Interreg IIIB

Participants: University of Plymouth, World Maritime University, Financial Engineering and Port Development, Kotka Maritime Research Centre, CETMAR

Duration: 2006

Main researcher: University of Plymouth



- **Title** : Red tecnológica sobre prevención y respuesta a los vertidos y a la contaminación (PREVECMA)

Financed by: Ministerio de Educación y Ciencia

Participants: CETMAR, Puertos del Estado, SASEMAR, IIM y CIT

Duration: Desde 2006 hasta 2009

Main researcher: M^a Luisa Fernández Cañamero

- **Title**: Green atlantic for sustainable development (GASD)

Financed by: Unión europea - Iniciativa comunitaria programa Interreg III B « AREA ATLANTICA»

Participants: Francia: Brest Technopole Iroise (Región de Bretaña), Ouest Atlantique et Nantes Métropole (Regiones Pays de La Loire y Poitou-Charentes), ARESE FRANCE (Red de CESR Francia atlántica)

España: Las Canarias (Región), Galicia (Región - CETMAR), Gijón (Región Asturias)

Portugal: CCDRN (Región Norte), Porto (Autoridad portuaria APDL)

Gran Bretaña: Suroeste de Inglaterra: Región a través de la Universidad de Plymouth

Irlanda: Autoridad Regional del Suroeste (el National Maritime College, The Marine Resources and Coastal Research Centres for Ireland) e Irlanda del sur

Redes europeas: Europe+ / EBN

Duration: Desde 2006 hasta 2008

Main researcher: Patrice Lefeu

- **Title** : Estudio sobre el cambio climático en Galicia

Financed by: Consellería de Medio Ambiente-Xunta de Galicia

Participants: Consellería de Medio Ambiente, CETMAR.

Duration: Desde 2006 hasta 2007

Main researcher: Consellería de Medio Ambiente

- **Title**: Impulso del cultivo de la ostra rizada (*Crassostrea gigas*) en diferentes Rías Gallegas-II

Financed by: Consellería de Pesca e Asuntos Marítimos – Xunta de Galicia

Participants: Dirección Xeral de Recursos Mariños; Centro de Investigaciones Marinas (CIMA); Centro de Control y Gestión del Medio y de los Recursos Marinos (CCMM); INTECMAR.

Duration: Desde 2006 hasta 2009

Main researcher: Dirección Xeral de Recursos Mariños – Xunta de Galicia

- **Title**: Acción estratégica sobre toxinas marinas (EPITOX)

Financed by: Dirección Xeral de I+D+i-Consellería de Innovación e Industria (Xunta de Galicia)

Participants: Centro de Investigaciones Mariñas (CIMA); Dirección Xeral de Saúde Pública-Consellería de Sanidade (Xunta de Galicia); Centro Tecnológico del Mar-Fundación CETMAR; INTECMAR; Universidad de Santiago de Compostela

Duration: Desde 2007 hasta 2010

Main researcher: CIMA

- **Title**: ATLANTIC REGIONS COASTAL POLLUTION RESPONSE & PREPAREDNESS - ARCOPOL

Financed by: Programa de Cooperación Transnacional ESPACIO ATLANTICO

Participants: Consellería de Pesca y Asuntos Marítimos (DX RM, CIMA); INTECMAR ; Consellería de Medio Ambiente-Meteorología ; CETMAR; Pembrokeshire County Council (UK) ; Conseil d'Acquitaine (FR); Conseil Bretagne (FR); CIIMAR (PO); IST (PO); Marine Institute (Irlanda) ; Vigipol; EGMASA

Duration: Desde 2009 Hasta: 2011

Main researcher : María Luisa Fernández Cañamero

- **Title**: ARCOPOL PLUS

Financed by: Programa de Cooperación Transnacional ESPACIO ATLANTICO

Participants: Consellería de Pesca y Asuntos Marítimos (DX RM, CIMA); INTECMAR ; Consellería de Medio Ambiente-Meteorología ; CETMAR; Pembrokeshire County Council (UK) ; Conseil d'Acquitaine (FR); Conseil Bretagne (FR); CIIMAR (PO); IST (PO); Marine Institute (Irlanda) ; Vigipol; EGMASA

Duration: Desde 2009 Hasta: 2011

Main researcher : María Luisa Fernández Cañamero



▪ **Title: – STAGES**

Financed by: Programa de Cooperación Transnacional ESPACIO ATLANTICO

Participants: Consellería de Pesca y Asuntos Marítimos (DX RM, CIMA); INTECMAR ; Consellería de Medio Ambiente-MeteoGalicia ; CETMAR; Pembrokeshire County Council (UK) ; Conseil d'Acquitaine (FR); Conseil Bretagne (FR); CIIMAR (PO); IST (PO); Marine Institute (Irlanda) ; Vigipol; EGMASA

Duration: Desde 2009 Hasta: 2011

Main researcher : Maria Luisa Fernández Cañamero

▪ **Title: HNS, OIL AND INERT POLLUTION: TRAJECTORY MODELLING AND MONITORING - DRIFTER**

Financed by: VI Programa Marco UE- Plan INCITE

Participants: Centro Tecnológico del Mar; MeteoGalicia; Intecmar; Universidad de Vigo; Hidromod (Portugal); Instituto Superior Técnico (Portugal); CEDRE (Francia)

Duration: Desde 2008 Hasta: 2010

Main researcher: Maria Luisa Fernández Cañamero

▪ **Title: EXPLOTACIÓN BIOTECNOLÓGICA DE PRODUCTOS Y SUBPRODUCTOS MARINOS- BIOTECMAR**

Financed by: Programa de Cooperación Transnacional ESPACIO ATLANTICO

Participants: Universidad de Bretaña Occidental, Technopole Quimper Cornuaille, Seapro (Francia); Indigo Rock, Irish seaweed centre (Irlanda); IPIMAR (Portugal); IIM-CSIC, CETMAR (España)

Duration: Desde 2008 Hasta: 2010

Main researcher: Fabienne Guerard- Universite Bretagne

▪ **Title: RED ATLÁNTICA PARA LA PREVENCIÓN Y GESTIÓN DE RIESGOS DEL LITORAL –ANCORIM**

Financed by: Programa de Cooperación Transnacional ESPACIO ATLANTICO

Participants: Aquitaine Region; Observatoire de la Côte Aquitaine, IAAT, Bretagne region, GEOMER (university of Bretagne), Poitou Charente; REGION; CREA, Instituto de Hidráulica e Recursos Hídricos (IHRH), Departamento de Hidráulica e Ambiente do LNEC, NASC ; Centro de Biodiversidad y Gestion Ambiental (BIOGES), Universidad de Vigo, CETMAR.

Duration: Desde 2009 Hasta: 2011

Main researcher: Florence Cron- Aquitaine Region

▪ **Title: EVALUACIÓN DE LA ABUNDANCIA LARVARIA DE Mytilus galloprovincialis Y DEL RECLUTAMIENTO EN EL INTERMAREAL ROCOSO DE LA COSTA GALLEGA**

Financed by: Consellería de Pesca y Asuntos Marítimos

Participants: Centro de Investigaciones Marinas, Universidad de Vigo

Duration: Desde 2008 Hasta: 2009

Main researcher: Raquel Díez- CETMAR

▪ **Title: OBSERVATORIO OCEÁNICO DEL MARGEN IBÉRICO -RAIA**

Financed by: Programa de Cooperación Transfronterizo GALICIA-Norte de Portugal

Participants: Instituto Hidrográfico (IH); Universidade de Porto; Universidade de Aveiro; Instituto Superior Técnico (IST); CIIMAR(Portugal); Instituto Español de Oceanografía; Universidade de Vigo; Intecmar; CETMAR; Instituto de Investigaciones Mariñas (CSIC); Puerto de Vigo – Puertos del Estado; Consellería de Medio Ambiente e Desenvolvemento Sostible-MeteoGalicia (España)

Duration: Desde 2009 Hasta: 2011

Main researcher: Vicente Pérez Muñuzuri- Consellería de Medio Ambiente e Desenvolvemento Sostible



Título: Proyecto Singular Estratégico –PROMARES: Protección Medioambiental de la Costa y del Medio Marino

Financed by: Ministerio de Ciencia e Innovación

Participants: AIDO, Asociación de Investigación Metalúrgica del Noroeste-AIMEN, Autoridad Portuaria de Vigo, Codisoil SA, Consultores Investigación Tecnológica CIT, ELEMPO LABS, Flota Proyectos Singulares FPS, Fundación AZTI-Tecnalia, Fundación Hidráulica Ambiental de Cantabria, Geocisa, Incaplas, Insituto Mediterráneo de Estudios Avanzados-IMEDEA, Instituto de Investigaciones Marinas-IIM-CSIC, Marine Instruments, SA, Prebetong, Prefabricados Marinos, Qualitas Instruments, S.A, Repsol Petróleo SA, Repsol YPF, SA, SIMO, Starlab Barcelona SL, Tecnología Marina XIMO-MAREXI, Universidad de Huelva, Universidad de las Palmas de Gran Canaria-CEANI, Universidad de Santiago de Compostela, Universidad de Vigo, Universidad Politécnica de Cataluña-LIM.

Duration: 2009-2013

Main researcher: Maria Luisa Fernández Cañamero- CETMAR

Título: Plataforma Tecnológica para la Protección de la Costa y del Medio Marino PT-PROTECMA

Financed by: Ministerio de Ciencia e Innovación

Participants: Dirección General de Marina Mercante, Salvamento Marítimo, Ministerio de Medio Ambiente, Medio Rural y Marino, Puertos del Estado, Instituto Español de Oceanografía, Instituto de Investigaciones Marinas-CSIC, Repsol YPF, FEIQUE, ANAM, GEOCISA.

Duration: 2009-2012

Main researcher: Maria Luisa Fernández Cañamero- CETMAR

Título: Integral Networking of Fishing Sector Actors to Organize a Responsible, Optimal and Sustainable Exploitation of Marine Resources

Financed by: DG Environment, UE.

Participants: CESGA; CETMAR, Instituto de Investigaciones Marinas-CSIC, Instituto Español de Oceanografía IPIMAR (Portugal)

Duration: 2010-2012

Main researcher: Antonio Álvarez Alonso- IIM-CSIC



CONSULTANCY TASKS

- Guest expert in the Portuguese Institute of Maritime Research (IPIMAR) to offer advise on Project “Contributo para a Investigacao da Salubridade de Moluscos Bivalves”.
Stays in the centre:
10th to 1th7 de December 1993
15th to 21st de January1995
- Guest expert to advise to the Fish Inspection and Quality Control Division. Department of Fisheries. Bangkok. Thailand.
Stay in the centre: April 1998 (15 days)
- Guest expert invited by the European Commission in the Inspection Mission of Food and Veterinary Office (FVO) To Peru. March 2001.
- Guest expert in the Marine Institute (Galway, Ireland) to assess projects within the “STRATEGIC MARINE RTDI GRANT AID PROGRAMME”. November 2002.
- Guest expert invited by the European Commission in the Inspection Mission of Food and Veterinary Office (FVO) To Italy. Sept. 2004.
- Consultancy services for the elaboration of Contingency Plans against Oil Spills
CLIENTS: Ports: Vigo, Coruña, Villagarcía, Marín, Ferrol
Shipbuilding companies: Cardama, Pérez Méndez, Factoría Naval, Nodosa,
Other companies: Repsol YPF, Silos de Galicia, Pescanova