



Discoveries by Maria Carolina Gallego Iradi

- Alzheimer's Disease pathologies found in dolphins (worldwide impact).
- New APP isoforms in dolphins
- Droplets in Matrin3 protein mediated phase separation (ALS and Myopathy related)
- Anastasis in H4 cells (death cell reversion and change of morphology)

R&D /Scientist & Team Lead

Self-driven and dynamic Scientist with proven expertise, 20+ years of hands-on experience in science and education, and diverse experiences in biotechnology and environmental control. Skilled communicator able to build collaborative relationships with multidisciplinary peers in order to further exploration and research opportunities, engage communities and research participants, and motivate teams to achieve objectives. Analytical and organized as well as highly adaptable, passionate, and proactive in approach to continuous improvement.

Highlights of Expertise include:

- Innovative Ideas Designer for R&D
- Discover the insights of the gene architecture (transcriptomics) from cell or tissues.
- Process Improvement & Problem Solving
- Team Leadership, Training & Development
- Safety Management & Regulatory Compliance
- Professor and research chair.

EDUCATION

2002-2005 PhD Hons. in Genetics and Development, Universidad de Zaragoza, Spain (*Cum Laude*)

2001-2004 Master Hons. Waste Treatment, Universidad Internacional de Andalucia, Spain (*Cum Laude*)

2002-2003 Diploma in Educational Training for University Professorship, Universidad de Zaragoza, SPAIN

1993-1999 BSc. Hons. Marine Biology Universidad de Oriente, Venezuela (*Cum Laude*). Studies accredited in Spain.

Primary and Secondary School

Carmelitas "Santa Teresa de Jesús" (Orense, Spain)

Skills/Techniques

- Innovative ideas designer for new R&D bio projects
- Data mining transcriptomics
- Experiment Design & Development

MARIA CAROLINA GALLEGO IRADI, PH.D.

mc@gallegoiradi.com • +1 3526820361 • LinkedIn mcgallegoiradi



- Communication & Community Outreach
- Process Improvement & Problem Solving
- Team Leadership, Training & Development
- Professor university experience.
- Leadership and research manager of multiple aspects of environmental
- Transcriptomics, NGS
- R
- Mining transcriptomic data for gene discovery and antibodies application.
- Lab Management & Research Coordination
- Confocal, fluorescence and live imaging softwares
- STORM Super Resolution microscopy
- Genetic software for primer design and cloning, UCSC, Genome Compiler, Genome browser, Benchling
- Bioinformatics transcriptome (RNA-seq, microarray, R script, etc)
- Next Generation Sequencing design experiment and pipeline (Bulk and single cell).
- Next Generation Sequencing cell isolation DNA/RNA and library preparation.
- Cloning.
- CRISPR/Cas9 design and detection.
- Primer design.
- RACE technique.
- RNA and DNA extraction from paraffin embedding and sections tissue
- DNA purification.
- Western blot
- Growth cell culture, growth curve and maintenance of different cell lines (COS1, SHSY5Y, HEK293, A549, HFL, H4, CHO, 3T3, N2A, HeLa, myoblasts, primary neuron culture)
- Co-culture different cell lines in the same plate
- Ligation, transformation mini/maxi prep.
- Transient and stable cell transfection in vitro
- Bacterial transformation
- Transduction AAV
- Apoptosis and stress induction
- Reverse transcription to cDNA, PCR, Real Time PCR, restriction enzymes
- Laser Induced Breakdown Spectroscopy (LIBS) for elements measure
- Immunohistochemistry, immunocytochemistry.
- Co-management with government ministries, national oil company, developing relationships within internal and external partners, government agencies, universities and private companies, evaluation of sustainable environmental projects, consulting as expert for new environmental projects.
- Environmental Impact assessment.
- Safety Management & Regulatory Compliance
- Waste treatment project design.
- Environmental impact assessment.
- Project leader.
- Pollution and environmental assessment, genetic variability, virus and other studies in marine organisms; heavy metals in marine organisms (bioindicators for pollution).Lab protocols and analysis for preparation as reference lab for heavy metals.
- Environmental analysis such as: Chemical Oxygen Demand, Biochemical Oxygen Demand, granulometry, bathymetry and pollution, waste hydrodynamics of mixing zones of wastewater discharges, nitrogen, phosphorous, surfactants, aromatics hydrocarbons, oil and grease, solids, granulometry, bacterias in water, wastewater and sediments, bioassay, LC50, fluorometry, atomic absorption for heavy metals.
- Waste plan design, assessment plan and treatment strategy for:
 1. Urban waste: controlled garbage dump, vermicompost and recycling, urban wastewater depuration, urban mud management.
 2. Industrial waste: paper industry, thermal power station, glass remainders, toxic and dangerous waste, radioactive waste, petroleum waste, pigments industry, chemical industry wastewater, biosanitary waste,



- food industry waste, mine industry, waste incineration, metallurgy industry, inorganic fertiliser industry, textile industry.
3. Agricultural waste management: forest and farming, plastic waste in agriculture, wine industry waste, recycling and management of agricultural industry, biological treatment of cellulosic and lignocellulosic waste, olive waste industry, biopolymers industry.
 4. Bio recovery of polluted soils: phytoremediation, grounds contaminated with pesticides, heavy metals and explosives.
 5. Biotechnology of contaminants degradation and immobilization: tolerance to organic solvents, genetics in microorganism's construction destined to environment, membrane protein engineering to immobilization of heavy metals, bacterial biodegradation of petroleum, bacterial cyanide and PCBs elimination, bacterial anaerobic degradation of aromatics, biodesulfuration.
 6. Waste management and control: European Union law, waste classification, waste management.
 7. Water quality/sediments from marine, wastewater and drinking water: heavy metals/trace quantification (atomic absorption), hazardous waste management, biochemical oxygen demand (BOD), chemical oxygen, oil and grease water quantification, aromatic hydrocarbons (pollution), wastewater, industrial, low-demand (DQO), pollution bioassays, nutrient quantification (water/sediments), water bacteriology, surfactants quantification radioactive waste.

FELLOWSHIPS

- 2005** Fellowship-contract Dirección General Aragón-European Union (Spain) for PhD in Genetics and Development.
- 2003** Fellowship from Dirección General Aragón-European Union (Spain) for PhD in Genetics and Development.
- 2002** Fellowship for Biotechnology (PhD) Santander- Central-Hispano Bank and Universidad de Zaragoza (Spain).
- 2001** Fellowship from Universidad Internacional de Andalucía (Spain) for Master in Waste Management.
- 1989** Scholarship from the Spanish Government until 1989, "Colegio Carmelitas", Orense (Spain).

HONOURS/AWARDS

- 2007** Award of Merit "City of Porlamar" (Margarita Island Government, Venezuela)
- 2007** Military Medal of Honor (Veteran Hospital, Ministry of Defense, Venezuela)
- 2005** *Cum Laude*, PhD Genetics and Development
- 2003** *Cum Laude*, Master in Waste Management
- 1999** *Cum Laude*, BSc. Marine Biology

EMPLOYMENT

- 2017-** Researcher, lead transcriptomics project section, understanding the complex gene architecture (transcriptomics) of the thymus, immunology research, Stem Cell Transplantation and Regenerative Medicine, **Stanford University**, Palo Alto, CA
- 2016/17** Assistant Scientist, (Faculty position) Dr. Borchelt's Lab, Department of **Neuroscience**, Center for Translational Research in Neurodegenerative Disease, **University of Florida**, Gainesville, FL
- 2014/16** Postdoctoral Associate, Dr. Borchelt's Lab, Department of Neuroscience, Center for Translational Research in Neurodegenerative Disease, University of Florida, Gainesville, FL
- 2012/14** Postdoctoral Associate, NIH Grant Support. Department of Neurology, **McKnight Brain Institute**, University of Florida, Gainesville, FL.
- 2007/10** Chairman of the department of research for UNEFA Research at Margarita Island (Margarita

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mc@gallegoiradi.com • +1 3526820361 • LinkedIn mcgallegoiradi



- Island, Venezuela) and family business manager (ATRIUM C.A.)
- 2007** Researcher at Environmental Research Regional Center performing water and sediment quality control, ecotoxicology and coastal processes impact. Coastal quality control management and marine aquaculture water quality assessment. Universidad de Oriente, Venezuela
- 2007** Professor “Pollution Control”, “Marine Resources Conservation”, “Parasitology, Pathology and Prophylaxis of Marine Organisms”, “Environmental Impact”, Universidad de Oriente (BSc Marine Biology) and UNEFA University (Master’s degree), Venezuela
- 2006** Researcher at Department Neurobiology, Universidad de Zaragoza, Spain
- 2005** Environmental Impact Assessment”, Universidad de Oriente (Margarita Island, Venezuela)
- 2004** Assistant Professor “Fish Culture”, “Parasitology, Pathology and Prophylaxis”, Universidad de Oriente (Margarita Island, Venezuela)
- 1999/01** Lecturer assistant “Research Methodology”, “Biochemistry”, “Animal Physiology”, Universidad de Oriente (Margarita Island, Venezuela)
- Researcher Project:** study of the physical, chemical and bacteriological conditions of the coastal areas of the Estado Nueva Esparta, susceptible to environmental degradation (Universidad de Oriente-CRIA-Ministry of Environment, Margarita Island, Venezuela). Private and Government (Ministry of Environment, Oil Venezuelan company, hotels) water and soil analysis
- 1999** Technician Environment Research Regional Center, Universidad de Oriente, Venezuela
- 1997** Teaching assistant, Universidad de Oriente, Venezuela

COURSES

- **2003** “Biology, Medicine and Conservation of Marine Mammals”, **Universidad Autónoma de Barcelona, Spain**
- **2002** Professor Training Course (**one year**), **Universidad de Zaragoza, Spain**
- **2000** “Environmental Impact Course”, **UDO-Universidad Las Palmas de Gran Canaria**
- **2000** “Laboratory Reagents Storage and Management”, **MERCK, Venezuela**
- **1999** “Professional Qualification and Improvement in Physicochemical and Bacteriological Water Analysis Techniques”, environmental Research Regional Center, Margarita Island (Venezuela)
- **1999** Environmental Management” (IICA)-**Gesellschaft Technische Zusammenarbeit (GTZ)**, Maturin, Venezuela

PUBLICATIONS

NEWSPAPERS-TV –WEB MEDIA:

Selected news and media

- **NATIONAL GEOGRAPHIC ITALY:**
http://www.nationalgeographic.it/natura/animali/2018/08/07/news/dall_alzheimer_dei_delfini_un_possibile_aiuto_per_cure_future-4068257/
- **THE TIMES:** <https://www.thetimes.co.uk/edition/news/dementia-in-dolphins-could-give-clues-to-alzheimer-s-in-humans-5nthk2876>



- **DISCOVER:**
<http://blogs.discovermagazine.com/crux/2017/11/15/alzheimers-dolphins/#.WmWptiNDkI4>
- **THECONVERSATION.COM:**
<http://theconversation.com/researchers-find-pathological-signs-of-alzheimers-in-dolphins-whose-brains-are-much-like-humans-86741>
- **NEUROSCIENCE NEWS:** <https://neurosciencenews.com/alzheimers-dolphin-brains-7797>
- **NETDOCTOR.UK:** <http://www.netdoctor.co.uk/healthy-living/wellbeing/news/a29091/dementia-dolphins-alzheimers-research/>
- **UF news:** <http://neuroscience.ufl.edu/education/dr-maria-carolina-iradi-interviewed-about-her-research-on-dolphins-show-signs-of-alzheimers/>
- **CHICAGO TRIBUNE:** <http://www.chicagotribune.com/sns-researchers-find-pathological-signs-of-alzheimers-in-dolphins-whose-brains-are-much-like-humans-86741-20171114-story.html>
- **LOS ANGELES TIMES:** <http://beta.latimes.com/sns-researchers-find-pathological-signs-of-alzheimers-in-dolphins-whose-brains-are-much-like-humans-86741-20171114-story.html>
- **NEWSWEEK:** <http://www.newsweek.com/alzheimers-disease-brains-dolphins-692390>
- **WCAX TV:** Dementia in dolphins provides clues to Alzheimer's research wcax.com
- **CBS TV:** Dementia_Discovered_In_Dolphins_400_minnesota.cbslocal.com
- **MCKNIGHT BRAIN INSTITUTE NEWS.**
Interview online video: McKnight Brain Institute
Department of Neuroscience » College of
Medicine » University of Florida
- **NY DAILY NEWS:** Dolphins can develop Alzheimer's disease, study says - NY Daily News
- **ALLIGATOR.ORG:** https://www.alligator.org/news/dolphin-and-human-brain-similar-in-alzheimer-s-pattern/article_c741f31a-d8ea-11e7-93e7-df6586f472ba.html
- **GIZMODO.COM.** Traces of Alzheimer's disease detected in wild animals for the first time.
- **DIARIO DIGITAL LARED21 URUGUAY.** El mal de Alzheimer une a delfines y seres humanos - Noticias Uruguay, LARED21 Diario Digital.
- **INFOITI.COM.** Alzheimer en delfines infotiti.com
- **ESPACIOLOGOPEDICO.COM.** Delfines, víctimas y terapeutas del Alzheimer – espacioLogopedico.com
- **DIARIO SOL DE MARGARITA. 2006.** Delfines que encallan podrían sufrir Alzheimer.
- 1998 July Interview newspaper Diario Sol de Margarita
- 1998 April Interview newspaper Diario Sol de Margarita
- Many other media cause the publication is spreading worldwide.

JOURNAL PUBLICATIONS

1. 2019 M. Carolina Gallego Iradi, Haley Strunk, Rachel Davila, Anthony M. Crown, Hilda Brown, Jada Lewis, Edgardo Rodriguez-Lebron, David R. Borchelt. Interactions between N-terminal sequences in MatrIn3 and prion-like domains of TDP43 can produce novel droplet-like intranuclear



- structures. Manuscript submitted to **Laboratory Investigation (Nature)** April, 2019 doi: 10.1038/s41374-019-0260-7
2. 2018 M. Carolina Gallego Iradi*, Judy C. Triplett*, James D. Thomas*, Rachel Davila, Anthony M. Crown, Hilda Brown, Jada Lewis, Maurice Swanson, Guilian Xu, Edgardo Rodriguez-Lebron, David R. Borchelt. Characterization of gene regulation and protein interaction networks for Matrin 3 encoding mutations linked to amyotrophic lateral sclerosis and myopathy. **Scientific Reports- Nature, 2018; 8: 4049** doi: 10.1038/s41598-018-21371-4
 3. 2018 Danielle Gunn-Moore, Oksana Kaidanovich-Beili, María Carolina Gallego Iradi, Frank Gunn-Moore and Simon Lovestone. Alzheimer's disease in humans and other animals: A consequence of postreproductive life span and longevity rather than aging. **Alzheimers Dement. 2018 Feb;14(2):195-204.** doi: 10.1016/j.jalz.2017.08.014
 4. 2016 Sruti Rayaprolu, Simon D'Alton, Keith Crosby, Christina Moloney, Abigail R Hernandez, John Howard, Carolina Gallego-Iradi, David Borchelt and Jada Lewis. Heterogeneity of Matrin3 in the developing and aging murine central nervous system. **Journal of Comp Neurol 524(14):2740-52** doi: 10.1002/cne.23986
 5. 2015 M Carolina Gallego-Iradi, Alexis Claire, Hilda H Brown, Christopher Janus, Jada Lewis, David R Borchelt. Subcellular localization of Matrin 3 containing mutations associated with ALS and distal myopathy. **PLoS ONE 10(11) :e0142144** doi: 10.1371/journal.pone.0142144
 6. 2014 Gallego-Iradi C, Bickford JS, Khare S, Hall A, Nick J, Salmasinia D, Wawrowsky K, Bannykh S, Huynh D, Rincon-Limas D, Pulst S, Nick H, Fernandez-Funez P, Waters M. Aberrant intracellular trafficking of KCNC3-R420H: a K⁺ channel mutation causative in spinocerebellar ataxia 13. **NEUROBIOLOGY OF DISEASE, 71: 270-9** doi: 10.1016/j.nbd.2014.08.020
 7. 2010 Sarasa L., Gallego C., Monleón I., Olvera A., Canudas J., Montañés M., Pesini P. and Sarasa M. Cloning, sequencing and expression of the main APP isoforms and the enzymes related with their processing in the dog **NEUROSCIENCE, 171 (4): 1091-1101** doi: 10.1016/j.neuroscience.2010.09.042
 8. 1999. Acosta I., Silva M., Silva M., Gallego M., D'Suze M. and Cabrera T.. Study of physical-chemical and bacteriological characteristics of the effluent of a semi-intensive culture of white shrimp, *Litopenaeus vannamei*", Aquaculture Congress, Puerto La Cruz, Venezuela, Saber Magazine, Venezuela

THESYS DISSERTATIONS

- PhD (2005)** "Molecular machinery of Alzheimer's Disease in Dolphin", Universidad de Zaragoza (Zaragoza, Spain)
- Master (2003)** "Proposal for the management and control of waste generated from laboratories at Universidad de Oriente, Estado Nueva Esparta", Universidad Internacional de Andalucía (Jaen, Spain)
- Baccalaureate (1999)** "Lead Bioaccumulation in *Crassostrea rhizophorae* (MOLLUSCA, BIVALVIA) in La Restinga Lagoon, Margarita Island, Universidad de Oriente (Margarita Island) Universidad de Oriente (Margarita Island, Venezuela)

Genbank sequences:

- Gallego, C. and Sarasa, M. *Grampus griseus* amyloid beta (A β) protein, partial cds. AY926589.
- Gallego, C. and Sarasa, M. *Tursiops truncatus* amyloid beta (A β) protein, partial cds. AY926588.
- Gallego, C. and Sarasa, M. *Stenella coeruleoalba* presenilin 2 mRNA, partial cds. AY926586.



Gallego, C. and Sarasa, M. *Stenella coeruleoalba* presenilin 1 mRNA, partial cds. AY926585.
Gallego, C. and Sarasa, M. *Stenella coeruleoalba* BACE mRNA, partial cds. AY926584.
Gallego, C. and Sarasa, M. *Stenella coeruleoalba* beta-amyloid precursor protein mRNA, complete cds. AY926583.
Gallego, C. and Sarasa, M. *Canis familiaris* apolipoprotein E (ApoE) mRNA, partial cds. AY926587
Gallego, C., Sanchez-Diaz, R., Sarasa, L. and Sarasa, M. *Canis familiaris* beta-amyloid precursor protein 695 (APP-695) mRNA, complete cds. AY926582.
Gallego, C., Sanchez-Diaz, R., Sarasa, L. and Sarasa, M. *Canis familiaris* beta-amyloid precursor protein 714 (APP-714) mRNA, complete cds. AY926581.
Gallego, C., Sanchez-Diaz, R., Sarasa, L. and Sarasa, M. *Canis lupus familiaris* beta-amyloid precursor protein 770 mRNA, complete cds. AY926579
Gallego, C., Sanchez-Diaz, R., Sarasa, L. and Sarasa, M. *Canis lupus familiaris* beta-amyloid precursor protein 751 mRNA, complete cds. AY926580
Sarasa, L., Gallego, C., Monleon, I., Olvera, A., Canudas, J., Montanes, M., Pesini, P. and Sarasa, M. *Canis lupus familiaris* ADAM metalloproteinase domain 17 (ADAM17), transcript variant 1, mRNA. NM_001286866
Sarasa, L., Gallego, C., Monleon, I., Olvera, A., Canudas, J., Montanes, M., Pesini, P. and Sarasa, M. *Canis lupus familiaris* amyloid beta (A4) precursor protein (APP), mRNA. NM_001006601
Sarasa, L., Gallego, C., Monleon, I., Olvera, A., Canudas, J., Montanes, M., Pesini, P. and Sarasa, M. *Canis lupus familiaris* presenilin 2 (Alzheimer disease 4) (PSEN2), mRNA. NM_001284465

THESIS ADVISOR ND JURY MEMBER

THESIS AND PROJECT ADVISOR

1. 2001 Luisana Romero (Universidad de Oriente, advisor and jury member, Margarita Island, Venezuela)
2. 2001 Sebastian Duran (Universidad de Oriente, advisor and jury member, Margarita Island, Venezuela)
3. 2000 Nelson Geant Camacho (Universidad de Oriente, jury member thesis committee, Margarita Island, Venezuela)
4. 2002 Juan Lopez (Universidad de Oriente, advisor and jury and member thesis committee, Margarita Island, Venezuela)
5. 2007 Mario Torres (UNEFA University, advisor, Margarita Island, Venezuela)
6. 2007 Marianella Silva (UNEFA University, advosir, Margarita Island, Venezuela)

BOARDS AND MEMBERSHIP

2007 Member of Thesis Committee Board Member of the Aquaculture Department (Universidad de Oriente, Margarita Island, Venezuela)
2018 Stanford Neuromuscular Disorder Group
2018 California Spain Chamber of Commerce
2018 Internation Silicon Valley

TECHNICAL REPORTS:

2000-2007 Several technical inspections coastal area.
Poner aqui el del dragado inspeccion con ministerio ambiente



INVITATION/REPRESENTATION:

2007 Invitation to participate in II Aviar Influenza Forum UDONE 2007

2005 Invitation to develop th Master and PhD programs of Universidad de Oriente-Instituto de Investigaciones Cientificas (Margarita Island, Venezuela).

2005 Representant (CRIA-Universidad de Oriente) at the public consultation (Ministry of Environment) for evaluation of new ferry line coastal impact “Ruta del Norte” (Margarita Island, Venezuela)

SCIENTIFIC COMUNICATIONS, CONFERENCES, SYMPOSIUMS AND EVENTS

- **2019** Attendance at American Association for Precision Medicine Annual Meeting 2019, Silicon Valley, Santa Clara Convention Center, CA, USA
- **2019** Attendance at 2nd Biennial 22q11 Deletion Syndrome Symposium, Center for Definitive and Curative Medicine (CDCM) , School of Medicine, Stanford University, Palo Alto, CA, USA.
- **2019** Atendence at 9th Space Weather Enterprise Forum (SWEF) “Beyond the Next Revolution”, Silicon Valley, Santa Clara Convention Center, CA, USA
- **2019** The Thymus in the Chromosome 22q11.2 Deletion Syndrome (22q11DS) (Poster) Symposium 10th annual pediatrics retreat, School of Medicine, Stanford University, Palo Alto, CA, USA.
- **2018** Attendance at 2nd Annual Center for Definitive and Curative Medicine (CDCM) Symposium: Innovations in the Pipeline to Curative Medicine, School of Medicine, Stanford University, Palo Alto, CA, USA.
- **2017** The binding of RNA regulates the formation of nuclear membraneless structures by Matrin3 and TDP43 in myocytes. (Poster) The American Society of Human Genetics **ASHG, Orlando, FL, USA.**
- **2017** The binding of RNA regulates the formation of nuclear membraneless structures by Matrin3 and TDP43 in myocytes. Phase Transitions in Biology and Disease conference. VIB (Vlaams Instituut voor Biotechnologie) and KU (**Katholieke Universiteit Leuven**), **Leuven, Belgium.**
- **2015** Analysis of Matrin-3 encoding mutations associated with ALS in cultured cell models. C. Gallego-Iradi, M. Pace, J. Lewis, D.R. Borchelt. (Poster) Neuroscience 2015, Society for Neuroscience **SfN, Chicago, USA.**
- **2015** Heterogeneity of Matrin3 expression in the developing and murine central nervous system. Rayaprolu, S, D'Alton S, Howard, J, Moloney, C, Rosen, A, Iradi, M, Crosby, K, Borchelt, D, Lewis, J. (Poster) **MND Symp. Orlando, FL, USA.**
- **2015** Levels of ALS-associated protein Matrin3 are indirectly proportional to disease vulnerability. Rayaprolu, S, D'Alton S, Howard, J, Moloney, C, Rosen, A, Iradi, M, Crosby, K, Borchelt, D, Lewis, J. (Poster) Center for Translational Research in Neurodegenerative Disease and Department of Neuroscience, College of Medicine, University of Florida, **Gainesville, Florida, USA.**
- **2007** Speaker “Strategic Management of Genetic Information” conference Militar Hospital, **Porlamar, Venezuela.**
- **2006** “Alzheimer-like neurodegeneration as a probable cause of cetacean stranding”. Sarasa M., Gallego M.C., Federation of European Neurosciences Societies (**F.E.N.S.**), **Austria**
- **2005** Molecular machinery of Alzheimer Disease in Dolphin”. Sarasa M., Gallego M.C., XI Congreso de la Sociedad Española de Neurociencia, **Madrid, Spain**
- **2000** **EXPOMERCK 2000**-Universidad Santa María, **Caracas, Venezuela.**
- **1999** “Study of physical-chemical and bacteriological characteristics of the effluent of a semi-intensive culture of white shrimp, *Litopenaeus vannamei*”, Aquaculture Congress, **Puerto La Cruz, Venezuela.**

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mc@gallegoiradi.com • +1 3526820361 • LinkedIn mcgallegoiradi



- **1999 EUREKA 99** “Alternatives for conservation of the aquatic park Laguna de La Restinga, Caracas, Venezuela.
- **1994** I Congress of Aquatic Sciences, **Margarita Island, Venezuela.**