

CURRICULUM VITAE ABREVIADO (CVA)

Part A. PERSONAL INFORMATION

First name	Mercedes	Date	Enero 2023
Family name	Conradi Barrena		
Social Security, Passport, ID number	██████████		
e-mail	mconradi@us.es	Researcher ID	7005465450
Open Researcher and Contributor ID (ORCID) (*)			0000-0001-9458-303X

(*) Mandatory

A.1. Current position

Name of University/Institution	University of Sevilla		
Department	Departament of Zoology, Faculty of Biology		
Address and Country	Avd/Reina Mercedes s/n 41012 Sevilla		
Phone number		E-mail	mconradi@us.es#
Current position	Profesor Titular de Universidad	From	23/09/2004
Espec. cód. UNESCO	250808, 251001		
Palabras clave	Ecotoxicology, CO ₂ , climate change, plasticity, taxonomy, simbiosis, Copepoda		

A.2. Previous positions (research activity interruptions, indicate total months)

Period	Position/Institution/Country/Interruption cause
1988/90	Beca de colaboración I.N.A.P.E.
1991/95	Beca de F.P.D.I Junta de Andalucía
1995/97	Beca Postdoctoral en el extranjero Ministerio de Educación
1998	Postdoctoral fellow Plymouth Environmental Center
5-10-98/10-02-00	Ayudante de Facultad Universidad de Jaén
11-02-00/15-03-00	Profesora Asociada tipo-II Universidad de Sevilla
16-03-00/15-01-04	Profesora Asociada tipo-III Universidad de Sevilla
16-01-04/Actualidad	Profesora Titular Universidad de Sevilla

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Licensed in Biology	Universidad de Sevilla	06/1990
PhD In Marine Science	Universidad de Cádiz	07/1995

(Include all the necessary rows)

Part B. CV SUMMARY (max. 5000 characters, including spaces)

Her research activity is summarized in more than 60 articles, 5 books, 7 book chapters, and >33 participations in congresses (Sexenios de Investigación: 4 last one 1/1/2021). She has two different research lines: '*Taxonomy of symbiotic copepods for marine invertebrates*' and '*Ecotoxicology in marine invertebrates*'. The first started during her PhD, but has received few citations due to the small number of specialists in this research topic. Due to the current scientific policy in recent years, she has focused her research more on the second line, relegating this first line to hobby. Main journals (43 papers): *Crustaceana*, *Deep-Sea Research II*, *Helgolander Marine Research*, *Hydrobiologia*, *Journal Crustacea Biology*, *Journal of Marine Biology Association*, *Journal of Zoology (London)*, *Polar Biology*, *Polar research*, *Zootaxa*, *Zookeys*. The second line of research began during her postdoctorate at the Plymouth Environmental Center, United Kingdom, and has had a discontinuous development due to her mobility (5 different institutions) since this line requires a lot of specific equipment to carry it out. This equipment is not common in most Spanish research teams. Main journals (21 papers): *Aquatic Toxicology*, *Chemosphere*, *Ecotoxicology and Environment*, *Environmental*

Research, *Environmental Toxicology and Chemistry*, *Marine Ecology Progress Series*, *Marine Pollution Bulletin*, *PSZN Marine Ecology*, *Science of the Total Environment*. She has participated in 37 research projects or contracts, most of them public (national or regional calls) and as a coordinator and principal researcher of five research projects or contracts, one of them of national scope with an amount of 77,066 euros, and four granted by the Junta de Andalucía. Unfortunately, in recent years, she has always applied as the main researcher to projects from the national or regional plans that have been well evaluated but not granted. This has prevented, given the current scientific incompatibility policy, that she can participate in other projects. Awarded as a member of the research team of the project entitled "Biological study of the benthic communities of the Bay of Algeciras" with the International Marine Environment Award, awarded by the World Confederation of Underwater Activities (UNESCO). To mention her participation as a referee in journals such as *Chemosphere*, *Comparative Biochemistry and Physiology*, *Ecological indicators*, *Ecotoxicology*, *Environmental Research*, *Environmental Pollution*, *Estuarine, Coastal, and Shelf Science*, *Marine Pollution Bulletin*, *Science of the Total Environment*

Teaching experience (Quinquenios docentes: 5-last one 1/1/2020) in both first- and second-cycle subjects and in official postgraduate and doctoral courses. She has been a main researcher for two projects of Innovation and Teacher Improvement and has organized the International Congress "First International Congress on University Teaching Innovation in Natural History" held in Seville in 2012, being editor of the book resulting from the Congress. She has also been the supervisor of 3 PhD, 1 Master, and more than 25 degree projects in the last 10 years.

Part C. RELEVANT MERITS

C.1. Publications (including books)

- Bonnail E, Vera S, Blasco J, **Conradi M**; DelValls T.A. 2023. Metal Pollution and Mining in the Iberian Pyrite Belt: New Remediation Technologies to Improve the Ecosystem Services of the River Basins. *Water*, 15, 1302. <https://doi.org/10.3390/w15071302>.
- Riba I, Bonnail E, Salamanca MJ, **Conradi M**, Costa MH. 2023. Integrative Assessment of Sediment Quality in the São Francisco River (Mina Gerais, Brazil). *Applied Sciences*, 13, 3465. <https://doi.org/10.3390/app13063465>.
- Conradi M.**, Sánchez-Moyano J.E. 2022. Toward a sustainable circular economy for cigarette butts, the most common waste worldwide on the coast. *Science of the Total Environment*, 847, 157634 1-13 pp
- Conradi M.** 2022. Chapter Ten. Phenotypic plasticity under CO₂ scenarios, 155-182 pp. In: CO₂ acidification in aquatic systems: An integrative approach to Risk Assessment T.A DelValls & I. Rivas (eds), Elsevier, 305pp. ISBN: 978-0-12-823552-2
- Conradi M.**, Ribas I. 2022. Chapter Six. Addressing the effects of CO₂ acidification under "in situ" conditions: Laboratory against field surveys, 93-103 pp. In: CO₂ acidification in aquatic systems: An integrative approach to Risk Assessment T.A DelValls & I. Rivas (eds), Elsevier, 305pp. ISBN: 978-0-12-823552-2
- Riba, I, DelValls T.A, **Conradi M.** 2022. Chapter Five. The use of toxicity tests to address the impact of CO₂ acidification in aquatic ecosystems, 79-91 pp In: CO₂ acidification in aquatic systems: An integrative approach to Risk Assessment T.A DelValls & I. Rivas (eds), Elsevier, 305pp. ISBN: 978-0-12-823552-2
- Bhuiyan MKH, Masum Billah Md, DelValls TA, **M. Conradi**. 2022. Intergenerational reproductive response of an estuarine copepod to ongoing ocean acidification. *Journal of Experimental Marine Biology and Ecology*, 557, 151799, 1-13 pp.
- Bhuiyan MKH, Marín Rodríguez B, Masum Billah Md, Pires, A., R., Freitas, **M. Conradi**. 2022. Effects of ocean acidification on the biochemistry, physiology and parental transfer of *Ampelisca brevicornis* (Costa, 1853), *Environmental Pollution*, 293, 118549.
- Marín Rodríguez B, Coppola F, **Conradi M**, R., Freitas. 2022. The impact of temperature on lithium toxicity in the gastropod *Titria neritea*. *Environmental Science & Pollution Research*, 29, 64745–64755.
- Marín Rodríguez B, Bhuiyan MKH, Freitas R, **Conradi M.** 2021. Mission impossible: Reach the carrion in a lithium pollution and marine warming scenario. *Environmental Research*, 199, 111332, DOI: 10.1016/j.envres.2021.111332.
- Bhuiyan MKH, Martín Rodríguez B, Pires A, Riba I, Delvalls, A. Freitas R, **Conradi, M.** 2021. Experimental evidence of uncertain future of the keystone ragworm *Hediste diversicolor*

- (O.F. Müller, 1776) under climate change conditions. *Science of the Total Environment* 750, 1 2021, 142031.
- Conradi M**, J.E. Sánchez-Moyano, M.K.A. Bhuiyan, A. Rodríguez-Romero, A. Galotti, M.D. Basallote, A. DelValls, G. Parra, I. Riba. 2019. Intraspecific variation in the response of the estuarine European isopod *Cyathura carinata* (Krøyer, 1847) to ocean acidification. *Science of the Total Environment*, 683: 134-145. DOI: 10.1016/j.scitotenv.2019.05.227
- Conradi M**, J.E. Sánchez-Moyano, A. Galotti, F. Jiménez-Gómez, R. Jiménez-Melero, F. Guerrero, G. Parra, E. Bonnail, T.Á. DelValls. 2019. CO₂ leakage simulation: Effects of the decreasing pH to the survival and reproduction of two crustacean species. *Marine Pollution Bulletin*, 143: 33- 41. DOI: 10.1016/j.marpolbul.2019.04.020
- Conradi M**, E. Bandera, S. Mudrova, V. Ivanenko. 2018. Five new coexisting species of copepod crustaceans of the genus *Spaniomolgus*, symbionts of the stony coral *Stylophora pistillata* (Scleractinia). *Zookeys*, 791: 71- 95. DOI: 10.3897/zookeys.791.28775
- Ivanenko V., E. Bandera, **Conradi M**. 2018. A new deep-sea genus of the family Artotrogidae (Copepoda: Siphonostomatoida) from the Gorda Ridge (North Pacific Ocean). *Invertebrate Zoology*, 2018, 15(3): 249–266, DOI: 10.15298/invertzool.15.3.04
- Conradi M.**, T. A., I. Riba, V. Almagro-Pastor, DelValls. 2016. Lethal and sublethal responses in the clam *Scrobicularia plana* exposed to different CO₂-acidic sediments. *Environmental research* 151, 642–652, DOI:10.1016/j.enres.2016.08.065.
- E. Bandera, **Conradi M**. 2016. Redescription of two species of *Asterocheres* Boeck, 1860 (Copepoda: Siphonostomatoida), *A. corneliae* Schirl, 1973 and *A. boeckii* (Brady, 1880), and proposal of a new genus for *Asterocheres fastigatus* Kim, 2010. *Zootaxa* 4174(1):259, DOI: 10.11646/zootaxa.4174.1.18
- Parra, G, Galotti, A., Jiménez-Melero, R., Guerrero, F., Sánchez-Moyano, E. Jiménez-Gómez, F; **Conradi M**. 2016. Effects of long-term CO₂ exposure on *Daphnia magna*: From physiological effects to ecological consequences. *Chemosphere*, 156: 272-279. DOI: 10.1016/j.chemosphere.2016.04.066
- V. Almagro-Pastor, **M. Conradi**, T. A. DelValls, I. Riba. 2015. Alterations in the macrobenthic fauna from Guadarranque River (Southern Spain) associated with sediment-seawater acidification deriving from CO₂ leakage. *Marine Pollution Bulletin*, 96(1-2):65-75 DOI: 10.1016/j.marpolbul.2015.05.044

C.2. Research projects and grants

- 1.- Diseño y optimización de tecnologías ambientales mediante simulaciones de laboratorio de efectos crónicos y de ciclo de vida de especies bentónicas y planctónicas. Plan Nacional I+D (CTM2012-36476-C02-02), Years: 01/01/2013 - 31/12/2016, 92.000 euros, IP: Gema Parra Anguita.
- 2.- Efectos de fugas de CO_c almacenado en formaciones geológicas marinas: cinética de toxicidad de metales en sedimentos marinos. Plan Nacional I+D (CTM2011-28437-C02-02), years: 01/10/2011- 31/10/2014, 78.000 euros, IP: Inmaculada Riba López.
- 3.- Microscopía básica para la investigación de individuos, población y sistemas: Adquisición y análisis de imágenes. Ministerio de Ciencia e Innovación. Subprograma de proyectos de infraestructura científico-tecnológica cofinanced by FEDER (UNSE10-1E-260), Years: 15/12/2011-31/12/2012; 77.066 euros, IP: Mercedes Conradi Barrena.
- 4.- Cambio climático en la Antártida: Una aproximación desde el acoplamiento pelágico-béntico a los extremos del mar Weddell., Plan Nacional I+D (POL2006-06399/CGL), Years, 01/10/2006- 31/10/2008, 2.470.000 euros, IP: Enrique Isla.
- 5.- El ecosistema Antártico y sus habitantes (ECOANTHA-II). Fomento de la cultura científica y tecnológica del Plan Nacional de I+D+I 2004-2007. Acciones complementarias: Divulgación científica y tecnológica (CCT003-05-00466), Years: 04/04/2006 -30/04/2007, 16.000 euros, IP: Pablo José López González.
- 6.- Estudio multidisciplinar de las comunidades bentónicas dominadas por suspensívoros del margen de la plataforma continental mediterránea (DEEPCORAL).Plan Nacional I+D (CTM2005-07756-C02/MAR), Years, 01/10/2006-31/12/2008, 20.000 euros, IP: Josep Maria Gili.

C.3. Contracts

- 1.- "Evaluación del hábitat fluvial en el río Rumblar a través del estudio de las comunidades de invertebrados planctónicos y bentónicos", financed by Instituto de estudios Giennenses (Diputación Provincial de Jaén), Participating entities: Universidad de Sevilla, Universidad de Jaén, Years: 1996- 1997, IP: Pablo J. López-González, Francisco J. Guerrero Ruiz
- 2.- "Identification of Endocrine disruption chemicals in treated effluents and rivers of the Thames catchment", financed by: Environmental Agency. Thames Region Project Participating entities: Plymouth Environmental research Center, Years: January 1998-April 1998; IP: Prof. Dr. Michael H. Depledge
- 3.- "Estudio previo de acondicionamiento de la franja costera". Financed by: Junta de Andalucía (Dirección General de Pesca). Participating entities: Universidad de Sevilla, Duración: 1988-1989, IP: José Carlos García Gómez
- 4.- "Documento Científico-Técnico base del Catálogo Andaluz de fauna amenazada". Financed by: Agencia del Medio Ambiente de la Junta de Andalucía. Participating entities: Universidad de Sevilla, Duración: 1995-1996, IP: Jose Carlos García Gómez, Francisco José García García.
- 5.- "Estudio biológico de las comunidades bénticas de la Bahía de Algeciras". Financed by: C.E.P.S.A., CIA. Sevillana de Electricidad, Mancomunidad de Municipios del Campo de Gibraltar. Participating entities: Universidad de Sevilla, Universidad de Cádiz, Duración: 1991-1995, IP: José Carlos García Gómez

C.5. Management experience

- 1- Project title: Microscopía básica para la investigación de individuos, población y sistemas: Adquisición y análisis de imágenes. Ministerio de Ciencia e Innovación. Subprograma de proyectos de infraestructura científico-tecnológica cofinanced by FEDER (UNSE10-1E-260), Years: 15/12/2011-31/12/2012, 77.066 Euros. IP: Mercedes Conradi Barrena.
- 2.- Project title: Modelos integrados de evaluación de los efectos asociados con la acidificación por enriquecimiento de CO₂ en sistemas acuáticos. Financed by universidad de Sevilla. 5.000 euros. Years: 2017. IP: Mercedes Conradi
- 3.-Project title: Ayuda de consolidación a grupos de investigación. PAIDI. Financed by Junta de Andalucía (RNM-3300-2009), years: 01/01/2010-31/12/2010, 7.427,63 Euros, IP: Mercedes Conradi Barrena.
- 3.-Project title: Ayuda de consolidación a grupos de investigación. PAIDI. Financed by Junta de Andalucía (RNM-300-2008), Years: 01/01/2009- 31/12/2009, 5.598,41 Euros, IP: Mercedes Conradi Barrena.
- 4.-Project title: Ayuda de consolidación a grupos de investigación. PAIDI. Financed by Junta de Andalucía (RNM-300-2007), Years: 01/01/2008-31/12/2008, 6.945,38 Euros, IP: Mercedes Conradi Barrena
- 5.-Project title: Acción coordinada entre los grupos de investigación "Oceanografía y Contaminación del litoral "RNM-144 y "Ecología y Biodiversidad de sistemas acuáticos"RNM-300. Financed by Junta de Andalucía, Years: 01/01/2001-31/12/2001, 7.788,11, IP: Mercedes Conradi Barrena.

C.5. Others management experiences

- 1.- Title: First International Congress on University Teaching Innovation in Natural History Organizing Committee. Internacional. Year: 19-22/09/2012
- 2.- Title: " Biodiversidad antártica y Cambio Climático". Organizing Committee. Regional. Year: 16-22/05/2007
- 3.-Title: VII Congreso Nacional de Malacología. Organizing Committee. Nacional. Year: 23-26/11/1988

C.6. Participation in international committees and representations

- 1.- Scientific committee of First International Congress on University Teaching Innovation in Natural History. Universidad de Sevilla. Year 19-22/09/2012
- 2.- Census of life. Year 01/01/1999- actual
- 3.- Evaluating committee of Edwin Schrödinger Fellowship. Australian Science Fund (FWF). Year: 03/07/2002
- 4.- Evaluating committee of Programa de General de Conocimiento de la Xunta de Galicia. Xunta de Galicia. Years: 2007-actual