

CURRICULUM VITAE ABREVIADO (CVA)

IMPORTANT – The Curriculum Vitae cannot exceed 4 pages. Instructions to fill this document are available in the website.

Part A. PERSONAL INFORMATION

First name	Iñigo		
Family name	Martínez-Solano González		
Gender (*)	Male	Birth date (dd/mm/yyyy)	03/08/1975
ID number	NIF: 02910778J	e-mail: inigomsolano@mncn.csic.es	
URL Web:	https://www.mncn.csic.es/es/quienes_somos/martinez-solano-gonzalez-inigo		
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-2260-226X		

(*) *Mandatory*

A.1. Current position

Position	Científico Titular		
Initial date	February 2017		
Institution	Consejo Superior de Investigaciones Científicas		
Department/Center	Biodiversidad y Biología Evolutiva, Museo Nacional de Ciencias Naturales		
Country	Spain	Phone number	91 4111328
Key words	Evolutionary Biology, Genetics, Systematics, Taxonomy, Zoology, Phylogeography, Conservation, Demography, Amphibia		

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

Period	Position/Institution/Country/Interruption cause
2014-2016	Severo Ochoa postdoctoral fellow, EBD-CSIC, Spain
2013-2014	Postdoctoral fellow, CIBIO-University of Porto, Portugal
2008-2013	Ramón y Cajal fellow, IREC-CSIC, Spain
2007-2008	Postdoctoral fellow, University of Connecticut, Storrs, USA
2005-2007	Postdoctoral fellow, University of California, Berkeley, USA

A.3. Education

PhD, Licensed, Graduate	University/Country	Year
Ph. D. (Biology)	Universidad Autónoma de Madrid, Spain	2004

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

My research addresses questions about the origin and conservation of biodiversity in an integrative framework, based on the analysis of complementary lines of evidence (faunistics, demography, morphology, genetics) at different spatial and temporal scales, to provide information for evidence-based management programs. My contributions focus on amphibians as model systems, and include studies in the disciplines of molecular systematics, phylogeography, and conservation / landscape genetics.

I completed my Ph. D. in 2004 (Museo Nacional de Ciencias Naturales and Univ. Autónoma de Madrid) and spent 42 months abroad as a postdoc (Museum of Vertebrate Zoology, Univ. of California Berkeley, USA: 24 months; Dept. of Ecology and Evolutionary Biology, Univ. of Connecticut Storrs, USA: 18 months) before returning to Spain with a “Ramón y Cajal” fellowship. For five years I worked as an independent researcher at Instituto de Investigación en Recursos Cinegéticos (IREC-CSIC-UCLM); after which I was hired as a postdoctoral researcher at CIBIO (Universidade do Porto, Portugal) for 14 months and for two years as a “Severo Ochoa” postdoctoral fellow at Estación Biológica de Doñana (CSIC, Spain) before landing my current position at MNCN-CSIC.

I have completed three research terms (“sexenios”, last: 2014-2019), plus one in the modality of “Transferencia del Conocimiento e Innovación” (2002-2018). I have also received the accreditation I3 (Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora, ANECA, 2013).



I have led as PI of four grants from the Spanish “Plan Nacional de I+D+i” and of another from “Plan Regional de I+D+i de Castilla la Mancha” (≈800,000 € managed as PI). I have supervised four Ph. D. students, and I am currently supervising another two. I have also mentored graduate students, including two studies for “Diploma en Estudios Avanzados”, 16 “Trabajos Fin de Máster” and 13 “Trabajos Fin de Carrera/Grado”.

I have published 111 papers in international peer-reviewed journals indexed in JCR (another four manuscripts are currently in review), with an average impact factor ~3 (n. citations: 5381, h-index: 35, for a complete publication list, please check my author profile in Google Scholar: <https://scholar.google.com/citations?user=4iip0kQAAAAJ&hl=es>, and at Research Gate: <https://www.researchgate.net/profile/Inigo-Martinez-Solano>). Most of these papers have been published independently from my Ph. D. supervisors and as first or corresponding author. I have also published 27 papers in international peer-reviewed journals not indexed in SCI, three books/monographs, 14 book chapters and 17 popular science articles/books.

I have served as Secretary General for Asociación Herpetológica Española (2014-2023) and I am currently a member of the Taxonomic Committee of Societas Europaea Herpetologica and of the European Amphibian Red List Authority Working Group (IUCN), having collaborated in the Red List assessment of >90 species. I am also a member of the “Comité Científico sobre el Listado de Especies Silvestres en Régimen de Protección Especial y Catálogo Español de Especies Amenazadas” (Ministerio para la Transición Ecológica y el Reto Demográfico).

I serve as Director of the scientific journal *Graellsia*, published by CSIC and as associate editor for the journals *Amphibia-Reptilia* and *Basic and Applied Herpetology*, and for the website Enciclopedia Virtual de los Vertebrados Españoles (<http://www.vertebradosibericos.org/anfibios.html>). I have served as reviewer for >60 international scientific journals (Publons reviewer profile: <https://publons.com/researcher/479393/inigo-martinez-solano/>) and for national (Agencia Nacional de Evaluación y Prospectiva) and international research agencies in different calls for grants and pre- and post-doctoral fellowships (FONCyT, Argentina; National Science Center, Poland; Deutsche Forschungsgemeinschaft, Germany; Czech Science Foundation, Czech Republic; National Geographic Society, USA). I have also served in committees for access to research positions in CSIC (scale: Científico Titular).

From my early career I have devoted a significant effort to present the main results of my research to the main public, through talks and conferences in schools and institutes of primary and secondary education and environmental education centers, interviews in podcasts and radio shows, the participation in activities like the European Researcher’s Night, and the publication of popular books and articles in journals like Quercus.

Part C. RELEVANT MERITS (sorted by typology)

C.1. Publications (see instructions) (10 selected publications, 2020-2024)

Reyes-Moya, I.; Sánchez-Montes, G.; Babik, W.; Dudek.; Martínez-Solano, I. 2024.

Assessing fine-scale pondscape connectivity with amphibian eyes: an integrative approach using genomic and capture-mark-recapture data. *Molecular Ecology*, 33: e17206. IF: 4.9.

Martínez-Gil, H.; Sánchez-Montes, G.; Montes-Gavilán, P.; Ugarte, G.; Martínez-Solano, I. 2023. Fine-scale functional connectivity of two syntopic pond-breeding amphibians with contrasting life-history traits. *Conservation Genetics*, 24: 361-374. IF: 2.2.

Albero, L.; Martínez-Solano, I.; Hermida, M.; Vera, M.; Bécares, E. 2023. Open areas associated with traditional agriculture promote functional connectivity among amphibian demes in Mediterranean agrosystems. *Landscape Ecology*, 38: 3045-3059. IF: 5.2. Citations: 1.

Gutiérrez-Rodríguez, J.; Gonçalves, J.; Civantos, E.; Maia-Carvalho, B.; Caballero-Díaz, C.; Gonçalves, H.; Martínez-Solano, I. 2023. The role of habitat features in patterns of population connectivity of two Mediterranean amphibians in arid landscapes of central Iberia. *Landscape Ecology*, 38: 99-116. IF: 5.2. Citations: 5.

- Reyes-Moya, I.; Sánchez-Montes, G.; Martínez-Solano, I. 2022. Integrating dispersal, breeding and abundance data with graph theory for the characterization and management of functional connectivity in amphibian pondscapes. *Landscape Ecology*, 37: 3159-3177. IF: 5.2; Citations: 5.
- Reinke, B.A.; Cayuela, H.; Janzen, F.; Lemaitre, J.-F.; Gaillard, J.-M.; Lawing, A.M.; Iverson, J.B.; Christiansen, D.G.; Martínez-Solano, I.; Sánchez-Montes, G.; Gutiérrez-Rodríguez, J., et al. 2022. Diverse aging rates in ectotherms provide insights for the evolution of aging and longevity. *Science*, 376: 1459-1466. IF: 56.9; Citations: 37.
- Dufresnes, C.; Brelsford, A.; Jeffries, D.L.; Mazepa, G.; Suchan, T.; Canestrelli, D., Nicieza, A.; Fumagalli, L.; Dubey, S.; Martínez-Solano, I.; Litvinchuk, S.N.; Vences, M.; Perrin, N.; Crochet, P.A. 2021. Mass of genes rather than master genes underlie the genomic architecture of amphibian speciation. *PNAS* 118: e2103963118. IF: 10.7; Citations: 51.
- Fernández de Larrea, I.; Sánchez-Montes, G.; Gutiérrez-Rodríguez, J.; Martínez-Solano, I. 2021. Reconciling direct and indirect estimates of functional connectivity in a Mediterranean pond-breeding amphibian. *Conservation Genetics* 22: 455-463. IF: 3.1; Citations: 4.
- Antunes, B.; Velo-Antón, G.; Buckley, D.; Pereira, R.; Martínez-Solano, I. 2021. Physical and ecological isolation contribute to maintain genetic differentiation between fire salamander subspecies. *Heredity* 126: 776-789. IF: 3.8; Citations: 19.
- Cayuela, H.; Valenzuela-Sánchez, A.; Teulier, L.; Martínez-Solano, I.; Léna, J.-P.; Merilä, J.; Muths, E.; Shine, R.; Quay, L.; Denoël, M.; Clobert, J.; Schmidt, B.R. 2020. Determinants and consequences of dispersal in vertebrates with complex life cycles: a review of pond-breeding amphibians. *Quarterly Review of Biology*, 95: 1-36. IF: 4.9; Citations: 103.
- C.2. Congress**, indicating the modality of their participation (invited conference, oral presentation, poster)
- Reyes-Moya, I.; Sánchez-Montes, G.; Babik, W.; Dudek, K.; Martínez-Solano, I. 2023. Caracterización integradora de la conectividad a escala fina en anfibios de charcas temporales mediante datos genómicos y de captura-marcaje-recaptura. XVII Congreso Luso – Español de Herpetología / XXI Congreso Español de Herpetología, Ibiza, 19-22 de abril de 2023 (oral).
- Albero, L.; Martínez-Solano, I.; Arias, A.; Lizana, M.; Bécares, E. 2021. Amphibian communities under agricultural intensification: species and community responses. XVI Congreso Luso – Español de Herpetología / XX Congreso Español de Herpetología, Lisboa, 6-17 de septiembre de 2021 (oral).
- Antunes, B.; Velo-Antón, G.; Buckley, D.; Pereira, R.; Martínez-Solano, I. 2020. Evolutionary consequences of isolation by environment in two distinct fire salamander ecotypes. IX World Congress of Herpetology, Dunedin, New Zealand, 5-10 January 2020 (panel).
- Martínez-Gil, H.; Sánchez-Montes, G.; Martínez-Solano, I. 2019. Sexual selection and breeding success in the natterjack toad (*Epidalea calamita*). Trends in Biodiversity and Evolution (TiBE 2019), Vairão, Portugal, 4-6 December 2019 (panel).
- Dufresnes, C.; Litvinchuk, S.; Martínez-Solano, I.; Perrin, N.; Butlin, R.; Crochet, P.-A. 2019. Hybrid zone genomics of european anurans. XX European Congress of Herpetology, Milan, Italy, 2-6 September 2019 (oral).



Martínez-Solano I., Gutiérrez-Rodríguez J., Sánchez-Montes G., Barbosa A. M., Wang J., Ariño A. H., Civantos E., Gonçalves J., Recuero E., Vizmanos J. L. 2018. Integrative, comparative phylogeography of Iberian amphibians. II Joint Congress on Evolutionary Biology, Montpellier, France, August 18-22, 2018 (panel).

Sánchez-Montes G., Díaz-Paniagua C., Wang J., Ariño A. H., Vizmanos J. L., Martínez-Solano, I. 2018. Demographic insights from the integration of pedigree reconstruction and capture-mark-recapture methods in seasonal-breeding species. II Joint Congress on Evolutionary Biology, Montpellier, France, August 18-22, 2018 (panel).

C.3. Research projects, indicating your personal contribution. In the case of young researchers, indicate lines of research for which they have been responsible.

1) Title: The role of dispersal in amphibian population connectivity and differentiation: an integrative approach (AMPH-CONNECT) (PID2020-116289GB-I00)

Funder: Ministerio de Ciencia e Innovación

From: 2021 **to:** 2024 **Budget:** 181,500 € **PI:** I. Martínez-Solano

2) Title: Bases para un plan de seguimiento genético integrado a largo plazo de poblaciones de anfibios (CGL2017-83131-P)

Funder: Ministerio de Economía, Industria y Competitividad

From: 2018 **to:** 2020 **Budget:** 193,600 € **PI:** I. Martínez-Solano

3) Title: Patrones vs procesos en filogeografía comparada: barreras al flujo génico, contraste de hipótesis y concordancia temporal en procesos de diversificación de la batracofauna ibérica (CGL2011-28300)

Funder: Ministerio de Ciencia e Innovación

From: 2012 **to:** 2014 **budget:** 121,000 € **PI:** I. Martínez-Solano

4) Title: Seguimiento genético de poblaciones en ambientes fragmentados de Castilla la Mancha: unidades evolutivas, barreras recientes al flujo génico y parámetros demográficos relevantes a efectos de gestión (PPII10-0097-4200)

Funder: Junta de Comunidades de Castilla la Mancha

From: 2010 **to:** 2013 **budget:** 165,770 € **PI:** I. Martínez-Solano

5) Title: Influencia del paisaje en la estructura genética de las poblaciones de anfibios mediterráneos (CGL2008-04271-C02-01-BOS)

Funder: Ministerio de Ciencia e Innovación

From: 2009 **to:** 2011 **budget:** 121,000 € **PI:** I. Martínez-Solano

6) Title: MEDBIODIV: Linking phenotypes to diversification dynamics to decipher the temporal and spatial scaling of biodiversity evolution in the Mediterranean Basin

Funder: FCT (Portugal)

From: 2018 **to:** 2020 **budget:** 237,361 € **Role:** Research team

7) Title: Next Generation Conservation: preserving the continuum of life in space and time

Funder: FCT (Portugal)

From: 2016 **to:** 2018 **budget:** 139,470 € **Role:** Research team