

**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	Ignacio José		
Family name	De la Riva		
Gender (*)	Male	Birth date (dd/mm/yyyy)	08/01/1960
Social Security, Passport, ID number	02522891K		
e-mail	<a href="mailto:iriva@mncn.csic.es">iriva@mncn.csic.es</a>	URL Web	
Open Researcher and Contributor ID (ORCID) (*)	0000-0001-5064-4507		

(\*) Mandatory

**A.1. Current position**

Position	Research Scientist		
Initial date	07/05/1996		
Institution	Museo Nacional de Ciencias Naturales-CSIC		
Department/Center	Biodiversity and Evolutionary Biology		
Country	Spain	Teleph. number	+ 34 914111318
Key words	Herpetology, systematics, ecology, taxonomy, conservation		

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

Period	Position/Institution/Country/Interruption cause
1986–1987	Contract Estación Biológica de Doñana-CSIC
1987–1990	Pre-doc grant, Asociación Amigos de Doñana
1991–1992	Pre-doc grant, Universidad de Las Palmas de Gran Canaria
1993	EU Contract, Program ECOFAC, Equatorial Guinea
1994–1996	Post Doc, University of Kansas

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
Bachelor Biology	Universidad Complutense de Madrid	1986
PhD Biology	Universidad Complutense de Madrid	1993

(Include all the necessary rows)

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

Mi research trajectory has devoted mainly to the systematics, taxonomy, biogeography and natural history of tropical amphibians and reptiles, with a special focus on the Neotropical region and, particularly, Bolivia and Peru, where I have been working for more than three decades. Because these are megadiverse and poorly surveyed countries, my goals have been to describe and catalogue their herpetological fauna in an evolutionary context. To do so, I have utilized morphological (both internal and external), genetic and bioacoustical approaches. I have described nearly 80 species new to science, and proposed many phylogenetic hypotheses and taxonomic arrangements. Furthermore, I have developed interest in philosophical and theoretical aspects like the so-called “taxonomic inflation”, the crisis of taxonomy as an academic discipline, the emerging integrative taxonomy, the relationship between phylogenetic systematics and Linnean classifications, etc. Lately, the frightening global decline of certain reptiles and, especially, amphibians, led me to investigate the factors driving potential extinctions and biodiversity loss, such as emerging infectious diseases and the limitations imposed by the thermal ecology of ectotherms in a scenario of global warming.



I have published 204 scientific and technical papers (145 in indexed journals, 40 in non-indexed journals, and 19 book chapters), plus ~90 popular articles and Internet entries. My h index is 42 and my publications have > 11.700 citations (Google Scholar). I have participated in 17 scientific projects (8 as PI) and in 38 international congresses and symposia. I have given >50 seminars and conferences in several countries of Europe, America, Asia and Australia, where I have been a visiting scientist in 16 research centers and universities, with stays of up to years. I have conducted fieldwork in more than 40 countries, mostly in tropical areas. I have reviewed over 170 manuscripts for ~50 different international scientific journals, and I am currently member of the editorial board of seven journals on zoology, herpetology and ecology. For three years (1999–2002) I was Vice-director of Research at the National Museum of Natural Sciences (CSIC, Madrid, Spain). I have supervised four master theses and seven PhD theses (three in progress).

## Part C. RELEVANT MERITS (sorted by typology)

### C.1. Publications (see instructions)

- Miñarro, M., Burrowes P. A., Lansac, C., Sánchez-Montes, G., Afuang, L. & De la Riva, I. 2025. Demography and homing behavior in the poorly-known Philippine flat-headed frog *Barbourula busuangensis* (Anura: Bombinatoridae). **PeerJ** 13: e18694 (\*)
- Sánchez-Vialas, A., Calvo, M. & De la Riva, I. 2022. Synopsis of the terrestrial Reptiles of Equatorial Guinea. **Zootaxa** 5202 (1): 001–197.
- Montero-Mendieta, S., De la Riva, I., Irisarri, I., Leonard, J. A., Webster, M. T. & Vilà, C. 2021. Phylogenomics and evolutionary history of *Oreobates* (Anura: Craugastoridae) Neotropical frogs along elevational gradients. **Molecular Phylogenetics and Evolution** 161: 107167.
- Padial, J. M. & De la Riva, I. 2021. A paradigm shift in our view of species drives current trends in biological classification. **Biological Reviews** 96: 731–751.
- Echevarría, L. Y., De la Riva, I., Venegas, P., Rojas-Runjaic, F., Dias, L. R. & Castroviejo-Fisher, S. 2021. Total evidence and sensitivity phylogenetic analyses of egg-brooding frogs (Anura: Hemiphractidae). **Cladistics** 37: 375–401.
- Megía-Palma, R., Jiménez-Robles, O., Hernández-Agüero, J. A., & De la Riva, I. 2020. Plasticity of haemoglobin concentration and thermoregulation behaviour in a mountain lizard. **Journal of Thermal Biology** 92: 102656.
- Burrowes, P. A., Navas, C. A., Jiménez-Robles, O., Delgado, P. & De la Riva, I. 2020. Climatic heterogeneity in the Bolivian Andes: are frogs trapped? **South American Journal of Herpetology** 18: 1–12.
- Burrowes, P. A., James, T. Y., Jenkinson, T. S. & De la Riva, I. 2020. Genetic analysis of post-epizootic amphibian chytrid strains in Bolivia: Adding a piece to the puzzle. **Transboundary and Emerging Diseases** 67: 2163–2171.
- De la Riva, I. 2020. Unexpected beta-diversity radiations in highland clades of Andean Terraranae frogs. Pp. 741–764, in: Rull, V., Carnaval, A. (eds.): *Neotropical Diversification: Patterns and Processes*. Fascinating Life Sciences, Springer Nature Switzerland AG.
- Sánchez-Vialas, A., Calvo, M., Castroviejo-Fisher, S. & De la Riva, I. 2020. Synopsis of the amphibians of Equatorial Guinea based upon the authors' field work and Spanish natural history collections. **Proceedings of the California Academy of Sciences** 66 (8): 137–230.
- García-Porta, J., Irisarri, I., Kirchner, M., ... Wollenberg Valero, K. C. 2019. Environmental temperatures shape thermal physiology as well as diversification and genome-wide substitution rates in lizards. **Nature Communications** 10 (4077): 1–12. (12/45)
- Jiménez-Robles, O. & De la Riva, I. 2019. Lizards in the mist: thermal niches are constrained by habitat and microclimates in lizard communities in the Andes of southern Bolivia. **Journal of Biogeography** 46: 1676–1686.
- Scheele, B. C., Pasmans, F., Berger, L., ... Canessa, S. 2019. Amphibian fungal panzootic reveals catastrophic and ongoing loss of biodiversity. **Science** 363 (6434): 1459–1463. (11/41).
- Aguilar-Puntriano C., Ávila, L. J., De la Riva, I., Johnson, L., Morando, M., Troncoso-Palacios, J., Wood, P. L., Sites, J. W. 2018. The shadow of the past: convergence of

- young and old South American desert lizards as measured by head shape traits. **Ecology and Evolution** 2018 (8): 11399–11409.
- Montero-Mendieta, S., Grabherr, M., Lantz, H., De la Riva, I., Leonard, J. A., Webster, M. T. & Vilà, C. 2017. A practical guide to build *de-novo* assemblies for single tissues of non-model organisms: the example of a Neotropical frog. **PeerJ** 5: e3702
- De la Riva, I., Chaparro, J. C., Castroviejo-Fisher, S. & Padial, J. M. 2017. Underestimated anuran radiations in the high Andes: five new species, a new genus, and their phylogenetic relationships (Anura: Craugastoridae). **Zoological Journal of the Linnean Society** 182: 129–172.
- Burrowes, P. A. & De la Riva, I. 2017. Unraveling the historical prevalence of the invasive chytrid fungus in the Bolivian Andes: Implications in recent amphibian declines. **Biological Invasions** 19 (6): 1781–1794.
- Burrowes, P. A. & De la Riva, I. 2017. Chytrid fungus detected in museum specimens of Andean aquatic birds: implications for pathogen dispersal. **Journal of Wildlife Diseases** 53 (2): 349–355.
- Winter, M., Fiedler, W., Hochachka, W. H., Koehnke, A., Meiri, S. & De la Riva, I. 2016. Patterns and biases in climate change research on amphibians and reptiles. **Royal Society Open Science** 3:160158.
- Goicoechea, N., Frost, D. R., De la Riva, I., Pellegrino, K. C. M., Sites, J., Rodrigues, M. T. & Padial, J. M. 2016. Molecular systematics of teioid lizards (Teioidea/Gymnophthalmoidea: Squamata) based on the analysis of 48 loci under tree-alignment and similarity-alignment. **Cladistics** 32: 624–671.
- De la Riva, I. & Reichle, S. 2014. Diversity and conservation of amphibians of Bolivia. In Heatwole, H., Barrio-Amorós, C. & Wilkinson, J. W. (eds.). *Status of Decline of Amphibians: Western Hemisphere*. Chapter 14, Part 4, vol. 9. **Herpetological Monographs** 28: 46–65.
- Goicoechea, N., Padial, J. M., Chaparro, J. C., Castroviejo-Fisher, S. and De la Riva, I. 2012. Molecular phylogenetics, species diversity, and biogeography of the Andean lizards of the genus *Proctoporus* (Squamata: Gymnophthalmidae). **Molecular Phylogenetics and Evolution** 65: 953–964.
- González-Voyer, A., Padial, J. M., Castroviejo-Fisher, S., De la Riva, I. & Vilà, C. 2011. Correlates of species richness in the largest tropical amphibian radiation. **Journal of Evolutionary Biology** 24: 931–942.
- Padial, J. M. & De la Riva, I. 2010. A response to recent proposals of integrative taxonomy. **Biological Journal of the Linnean Society** 101: 747–756.
- Köhler, J., Koscinski, D., Padial, J. M., Chaparro, J. C., Handford, P., Lougheed S. C. & De la Riva, I. 2010. Systematics of Andean gladiator frogs of the *Hypsiboas pulchellus* species group (Anura, Hylidae). **Zoologica Scripta** 36: 572–590.
- Sinervo, B., Méndez-De la Cruz, F., Miles, D. B.,... Sites, J. W. 2010. Erosion of lizard diversity by climate change and altered thermal niches. **Science** 328: 894–899. (14/25).
- De la Riva, I., Parra-Olea, G., García-París, M. 2010. Systematics of Bolivian frogs of the genus *Telmatobius* (Anura, Ceratophryidae) based on mtDNA sequences. **Systematics and Biodiversity** 8 (1): 49–61.
- Glaw, F., Köhler, J., De la Riva, I., Vieites, D. R. & Vences, M. 2010. Integrative taxonomy of Malagasy treefrogs: combination of molecular genetics, bioacoustics and comparative morphology reveals twelve additional species of *Boophis*. **Zootaxa** 2383: 1–82.
- Padial, J. M., Castroviejo-Fisher, S. & De la Riva, I. 2009. The phylogenetic relationships of *Yunganastes* revisited (Anura). **Molecular Phylogenetics and Evolution** 52 (3): 911–915.
- Padial, J. M. & De la Riva, I. 2009. Integrative taxonomy reveals cryptic Amazonian species of *Eleutherodactylus* (Anura). **Zoological Journal of the Linnean Society** 155: 97–122.
- De la Riva, I. 2007. Bolivian frogs of the genus *Phrynopus* with the description of twelve new species (Anura: Brachycephalidae). **Herpetological Monographs** 21: 242–278.
- Padial, J. M., & De la Riva, I. 2006. Taxonomic Inflation and the stability of species lists: the perils of ostrich's behavior. **Systematic Biology** 55 (5): 859–867.

**C.2. Congress**, indicating the modality of their participation (invited conference, oral presentation, poster). (Six examples of >60 contributions).



2023. XII Congreso Latinoamericano de Herpetología. "Herpetología boliviana: tres décadas y media de perspectiva". Conferencia plenaria invitada. Cochabamba, Bolivia, 30 October–3 November.
2020. 9th World Congress of Herpetology. *Synopsis of the amphibians from a poorly surveyed African country: Equatorial Guinea*. Oral presentation. Dunedin, Nueva Zelanda. 5–10 January.
2017. XI Congreso Latinoamericano de Herpetología. *History of chytridiomycosis in Bolivia*. Oral presentation. Quito, Ecuador, 24–28 July.
2015. 58th Annual Meeting, Society for the Study of Amphibians and Reptiles. *Phylogenetic relationships of Holoadeninae*. Oral presentation. Lawrence, Kansas, 30 July–2 August.
2014. X Congreso Latinoamericano de Herpetología y IV Congreso Colombiano de Zoología. *Historical and geographical status of Bd among Bolivian frogs*. Oral presentation. Cartagena de Indias, Colombia. 1–5 December.
2013. Symposium on The Biological Impacts of Tropical Warming for Ectothermic Animals. *Thermal ecology of Bolivian lizards of the genus Liolaemus: Will climate warming drive them to extinction?* (Conferencia invitada). San Juan, Puerto Rico, 1–3 August.

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

**Selected projects among 19 participations.**

- "PARTED: Potential amphibian responses to extinction drivers under global change: comparisons across space and time". PGC2018-097421-B-I00. Investigador Principal: Ignacio De la Riva. Ministerio de Ciencia, Innovación y Universidades. Centro de ejecución: Museo Nacional de Ciencias Naturales. 2019–2022.
- ERASE: Extinction Risk in Andean Species of Ectotherms: a multifactorial assessment focused on endemic amphibians". CGL2014-56160-P. Investigador Principal: Ignacio De la Riva. Ministerio de Economía y Competitividad. Centro de ejecución: Museo Nacional de Ciencias Naturales. 2015–2019.
- "Quantifying climate-forced extinction risks for lizards, amphibians, and plants". Investigador principal: Barry R. Sinervo; Co-PI's: D. Miles, J. Pitterman, J.W. Sites, Jr., & A. Bauer. National Science Foundation, USA. 2013-2017.
- "Diversidad, evolución y extinción en el neotrópico: una aproximación usando anfibios y reptiles": CGL2011-30393. Investigador principal: Ignacio De la Riva; organismo financiador: Ministerio de Ciencia e Innovación; centro de ejecución: Museo Nacional de Ciencias Naturales. 2012-2014.
- "Taxonomía integradora de anfibios y reptiles tropicales: aspectos teóricos y prácticos"; CGL2008-04164/BOS; Investigador principal: Ignacio De la Riva; organismo financiador: Ministerio de Ciencia e Innovación; centro de ejecución: Museo Nacional de Ciencias Naturales. 2009-2011.
- "Caracterización genética y bioacústica de especies endémicas amenazadas en un punto caliente de biodiversidad: los anfibios de los Andes tropicales"; CGL2005-03156/BOS; investigador principal: Ignacio De la Riva; organismo financiador: Ministerio de Educación y Ciencia; centro de ejecución: Museo Nacional de Ciencias Naturales. 2006-2008.
- "Una aproximación morfológica, bioacústica y molecular a la diversidad de cuatro grupos de anfibios andinos"; REN2001-1046/GLO; Investigador Principal: Ignacio De la Riva; organismo financiador: Ministerio de Ciencia y Tecnología; centro de ejecución: Museo Nacional de Ciencias Naturales. 2001-2004.
- Sistemática del género *Telmatobius* (Amphibia, Anura, Leptodactylidae), con especial referencia al grupo *marmoratus*"; DEGES PB97-1147; organismo financiador: DGICYT; Investigador Principal: Ignacio De la Riva; centros de ejecución: Museo Nacional de Ciencias Naturales y Colección Boliviana de Fauna, Bolivia. Octubre 1998-Octubre 2001.

**C.4. Contracts, technological or transfer merits**, Include patents and other industrial or intellectual property activities (contracts, licenses, agreements, etc.) in which you have collaborated. Indicate: a) the order of signature of authors; b) reference; c) title; d) priority countries; e) date; f) Entity and companies that exploit the patent or similar information, if any