

Resumé (last updated January 2026)

Carlos M. Herrera

Estación Biológica de Doñana, CSIC
Vadillo-Castril, 23479 Cazorla, Spain

e-mail: herrera@ebd.csic.es

Website: <http://www.plant-animal.es/personal/cmh/cmhpersonal.html>

C M Herrera in [Google Scholar](#)

ORCID 0000-0003-2452-3888

Personal details

Date and place of birth: October 1952, Sevilla (Spain).

Nationality: Spanish

Higher education

1974. Licenciatura en Ciencias Biológicas, University of Sevilla.

1977. Doctorado en Ciencias Biológicas, University of Sevilla.

Positions held

1975-1977. Graduate student. Estación Biológica de Doñana.

1979-1985. Colaborador Científico, Estación Biológica de Doñana, CSIC.

1986-2022. Profesor de Investigación, Estación Biológica de Doñana, CSIC.

2022- . Profesor de Investigación *ad honorem* (*Emeritus*), Estación Biológica de Doñana, CSIC.

Main research interests

- Evolutionary ecology of plant-animal and plant-animal-microbial interactions
- Ecological epigenetics and phenotypic plasticity of wild plant populations
- History and evolution of Mediterranean plants
- Ecology and evolution of intraplant variation
- Ecology, evolution and thermal biology of flowers and wild bees

Selected honours and awards

2025. Honoris Causa Doctor, University of Jaén.

2024. Premio Francisco de Asís. Academia de Ciencias Sociales y de Medio Ambiente de Andalucía.

2024. Premi Ramon Margalef d'Ecologia, Generalitat de Catalunya.

2017. Ernst Haeckel Prize, European Ecological Federation.

2010. Honorary Fellowship Award. Spanish Society of Evolutionary Biology (Sociedad Española de Biología Evolutiva, SESBE), Spain.

2004. Elected Member. Real Academia de Ciencias de Sevilla, Spain.

2004. Andalucía Environment Award (Premio Andalucía de Medio Ambiente).
2003. Thomson Reuters Highly-Cited Researcher in Ecology/Environmental Science.
2003. Honorary Fellowship Award. Spanish Society for Terrestrial Ecology (Asociación Española de Ecología Terrestre, AEET), Spain.
2002. Honorary Membership Award. Ecological Society of America, USA.
2001. Spanish National Research Award (Premio Nacional de Investigación 'Alejandro Malaspina'). Ministry of Science and Technology, Spain.
1995. Elected Member, Academia Europaea.
1992. President's Award, American Society of Naturalists, USA.
1992. Corresponding Member, Botanical Society of America, USA.
1991. President's Gold Medal, British Ecological Society, England.
1987. Corresponding Fellow, American Ornithologists' Union, USA.
1978. Doctoral Award, University of Sevilla.
1974. Graduation Award, University of Sevilla.

Editorial Work

- 1990-1994. Editorial Board, *Oecologia*.
- 1990-1995. Editorial Board, *Acta Oecologica*.
- 1999-2002. Editorial Board, *Biotropica*.
- 2006-2011. Editorial Board, *Anales del Jardín Botánico de Madrid*.
- 2005-2013. Editorial Board, *Ecology and Ecological Monographs*.
- 2008-2022. Editorial Board, *Ideas in Ecology and Evolution*.
- 2012-2017. Editorial Board, *Molecular Ecology*.
- 2013-2017. Editorial Board, *Axios Review*.

Teaching and Invited Lectures/Seminars

1980. Visiting Professor. Escuela de Biología and Organization for Tropical Studies (OTS), Universidad de Costa Rica.
1985. Visiting Professor. Organization for Tropical Studies, Universidad de Costa Rica.
1986. Visiting Professor. Organization for Tropical Studies, Universidad de Costa Rica.
1986. Invited Lecturer. Department of Biology, Princeton University, Princeton, USA.
1986. Invited Lecturer. Department of Biology, University of Pennsylvania, Philadelphia, USA.
1989. Visiting Professor. Organization for Tropical Studies, Universidad de Costa Rica.
1989. Visiting Professor. Centro de Ecología, Universidad Nacional Autónoma de México.
1992. Invited Lecturer. University of Umeå, Umeå, Sweden.
1996. Invited Lecturer. Facultad de Biología, Universidad de Sevilla, Sevilla.
- 1997, 1998. Invited Professor. Estación El Ventorrillo, Museo Nacional de Ciencias Naturales, CSIC, Madrid.
1998. Visiting Professor. University of Puerto Rico, Río Piedras, Puerto Rico.
1999. Invited Lecturer. Facultad de Ciencias, Universidad Autónoma de Barcelona.
2000. Invited Lecturer. Facultad de Biología, Universidad de Santiago de Compostela.
2002. Visiting Professor. Instituto de Ecología, Xalapa, Veracruz, México.
2002. Invited Lecturer:
- Centro de Estudios Avanzados de Blanes, CSIC, Spain.
 - Department of Botany, University of Toronto, Canada.
 - Department of Zoology, University of Toronto, Canada.
 - Universidad Internacional de Andalucía, Baeza, Spain.
 - Universidad Internacional de Andalucía, Santa María de la Rábida, Spain.
2003. Invited Lecturer:

- Fundación BBVA, Madrid, Spain.
Department of Zoology, University of Florida, Gainesville, USA.
Facultad de Biología, Universidad de Murcia, Murcia, Spain.
Facultad de Biología, Universidad de Oviedo, Oviedo, Spain.
Facultad de Biología, Universidad de Santiago, Santiago, Spain.
Facultad de Biología, Universidad de Sevilla, Sevilla, Spain.
Museo Nacional de Ciencias Naturales, CSIC, Madrid, Spain.
Universidad Autónoma de Madrid, Madrid, Spain.
Universidad Internacional Menéndez Pelayo, Sevilla, Spain.
2004. Invited Lecturer:
Universidad Internacional de Andalucía, Santa María de la Rábida, Spain.
2005. Invited Lecturer:
Museo Nacional de Ciencias Naturales, CSIC, Madrid, Spain.
Facultad de Biología, Universidad Complutense, Madrid, Spain.
2006. Invited Lecturer:
Estación Experimental de Zonas Áridas, CSIC, Almería, Spain.
2007. Visiting Professor. Instituto de Ecología, Xalapa, Veracruz, México.
2007. Invited Lecturer:
Departamento de Ecología, Universidad Autónoma de Yucatán, Mérida, México.
Universidad de Huelva, Huelva, Spain.
2008. Invited Lecturer:
Real Academia de Ciencias de Sevilla, Sevilla, Spain.
2009. Invited Lecturer:
Facultad de Farmacia, Universidad Complutense, Madrid, Spain.
Universidad Internacional Menéndez Pelayo, Sevilla, Spain.
Facultade de Ciencias, Universidade da Coruña, A Coruña, Spain.
2010. Invited Lecturer:
Facultad de Biología, Universidad de Sevilla, Sevilla, Spain
2011. Invited Lecturer:
Instituto Mediterráneo de Estudios Avanzados (IMEDEA), Mallorca, Spain.
Universidad Autónoma de Madrid, Madrid, Spain.
Instituto de Investigaciones Químicas, CSIC, Sevilla, Spain.
2012. Invited Lecturer:
Universidad Autónoma de Madrid, Madrid, Spain.
Jardín Botánico de Córdoba, Córdoba, Spain.
Faculty Centre of Biodiversity, University of Vienna, Vienna, Austria.
2013. Invited Lecturer:
Instituto Mediterráneo de Estudios Avanzados (IMEDEA), Mallorca, Spain.
Ateneo de Sevilla, Sevilla, Spain.
Facultad de Biología, Universidad de Sevilla, Sevilla, Spain.
2018. Invited Lecturer:
Facultad de Biología, Universidad de Sevilla, Sevilla, Spain.
Instituto Cavanilles de Biodiversidad y Biología Evolutiva, Valencia, Spain.
2019. Invited Lecturer:
Facultad de Biología, Universidad de Salamanca, Salamanca, Spain.
Facultad de Ciencias Ambientales y Bioquímica, Universidad de Castilla-La Mancha, Toledo, Spain.
2020. Invited Lecturer:
Facultad de Biología, Universidad de Santiago, Santiago, Spain.
Facultad de Biología, Universidad Complutense, Madrid, Spain.
Facultad de Ciencias, Universidad de Coruña, Coruña, Spain.

2022. Invited Lecturer:
 Facultad de Ciencias Experimentales, Universidad de Jaén, Spain.
 Facultad de Biología, Universidad Autónoma, Madrid, Spain.
2023. Invited Lecturer:
 Ecology, Evolution, and Behavior seminar series. Michigan State University.
2025. Invited Lecturer:
 Facultad de Ciencias Experimentales, Universidad de Jaén, Spain.

Supervision of graduate/postgraduate students

(a) M Sc / Degree Students

- Andrada, J. 1977. Alimentación y selección de presa en *Falco naumanni*. University of Sevilla.
- Díaz-Paniagua, C. 1978. Estudio de las interacciones entre *Triturus marmoratus* y *Triturus boscai* durante su período larvario. University of Sevilla.
- Jordano, P. 1979. Estrategia reproductiva de la zarza (*Rubus ulmifolius*): coevolución con los pájaros dispersantes de las semillas. University of Córdoba.
- Fernández, V. 1982. Relaciones entre la avifauna y la estructura de la vegetación en las Sierras de Algeciras (Cádiz). University of Sevilla.
- Costa, L. 1982. Evolución estacional de la avifauna en pinares del Parque Nacional de Doñana. University of Sevilla.
- Cuadrado, M. 1985. Evolución estacional y técnicas de alimentación en una comunidad de passeriformes de Andalucía occidental. University of Sevilla.
- Canché, C. H. 2011. Evaluación experimental de la relación néctar-microorganismos-miel. Centro de Investigación Científica de Yucatán (CICY), Mérida, Yucatán, Mexico.
- Camacho, M. 2011. Population genetic structure and clonality of the nectarivorous yeast *Metschnikowia gruessii* associated to *Rosmarinus officinalis* flowers. Pablo de Olavide University, Sevilla.
- Gegunde, J. 2019. Long-term variation in pollinator service and consequences in Mediterranean montane habitats. Pablo de Olavide University, Sevilla.

(b) Ph D Students [current academic position in brackets]

- Díaz-Paniagua, C. 1982. Ecología de las poblaciones de las larvas de anfibios de las charcas temporales de la Reserva Biológica de Doñana. University of Sevilla. [Investigadora Científica CSIC]
- Gutián Rivera, J. 1984. Ecología de las comunidades de aves en hábitats montanos de la Cordillera Cantábrica occidental. University of Santiago. [Profesor Titular de Universidad]
- Jordano, P. 1984. Relaciones entre plantas y aves frugívoras en el matorral mediterráneo del área de Doñana. University of Sevilla. [Profesor de Investigación CSIC]
- Obeso, J. R. 1986. Ecología de la comunidad de aves en un medio transicional de la Sierra de Cazorla (Jaén). University of Oviedo. [Catedrático de Universidad]
- Zamora, R. 1987. Dinámica temporal y selección de hábitat de los passeriformes en la alta montaña de Sierra Nevada. University of Granada. [Catedrático de Universidad]
- Cobo, M. 1991. Vertebrados herbívoros y demografía del matorral de alta montaña en la Sierra de Cazorla. University of Sevilla. [deceased]

- Alonso, C. 1997. Variaciones en las relaciones planta-insecto fitófagos: efectos de factores bióticos y abióticos. University of Sevilla. [*Investigador Científico CSIC*]
- Garrido, J. L. 2003. Semillas y plántulas de *Helleborus foetidus* L. (Ranunculaceae): Variación geográfica, ecología y evolución. University of Jaén. [*Científico Titular CSIC*]
- Castilla, A. 2012. Variación geográfica, interacciones con animales y dimorfismo sexual: una mirada a los bordes de distribución de una planta ginodioica. University of Sevilla. [*Assistant professor, Department of Plant Biology, Ecology, and Evolution, Oklahoma State University*]
- Pozo, M. I. 2012. Levaduras en el néctar floral: ecología de comunidades e interacciones con insectos polinizadores y plantas hospedadoras. University of Sevilla. [*Assistant professor, Universidad de Valladolid*]

(c) Postdoctoral associates

- Ramón C. Soriguer. 1978–1980.
 Juan A. Amat. 1980.
 Carmen Díaz Paniagua. 1983–1984.
 María I. Manzur. 1985–1986.
 José R. Obeso. 1986–1987.
 Eugene W. Schupp. 1988–1989.
 Philip E. Hulme. 1990–1992.
 César A. Domínguez. 1991.
 José L. Yela. 1991–1992, 1994–1996.
 Marie-Charlotte Anstett. 1995–1997.
 Xim Cerdá. 1996–1999.
 María B. García González. 1998–2001.
 Ulf Sperens. 2000.
 Conchita Alonso. 2001–2002.
 Alfonso M. Sánchez-Lafuente. 2001–2002.
 María J. Bañuelos. 2002.
 Mónica Medrano. 2001–2011 .
 María Clara Castellanos. 2004–2006.
 Azucena Canto. 2005–2006.
 José M. Ramírez. 2007–2008.
 Beatriz Guzmán. 2010–2011.
 Sergio Alvarez-Pérez. 2010–2012.
 Clara de Vega. 2008–2016.
 Teresa Boquete. 2016– 2021.
 Javier Valverde. 2021– 2024.

Invited plenary/keynote conference presentations

1975. I Congreso Nacional Portugués de Ornitología. Oporto, Portugal.
 1978. XVII International Ornithological Congress. Berlin, Germany.
 1983. III European Ecological Symposium. Lund, Sweden.
 1985. Taller-Simposio sobre Frugivoría y Dispersión de Semillas, Los Tuxtlas, Mexico.
 1986. 19th International Ornithological Congress. Ottawa, Canada. 1986.
 1987. I Jornadas de Taxonomía Vegetal. Sevilla, Spain.
 1987. IX Jornadas Ornitológicas Españolas. Madrid, Spain.
 1990. II Jornadas de Taxonomía Vegetal. Madrid, Spain.
 1990. Jornadas de Investigación y Conservación en Parques Naturales. Jaén, Spain.

1991. VIth International Conference on Mediterranean Climate Ecosystems. Maleme, Greece.
1993. IX Seminario de Genética de Poblaciones y Evolución. Granada, Spain.
1994. Workshop on Evolutionary Biology. Bellaterra, Barcelona, Spain.
1995. Workshop on Reserves of the Biosphere. Sevilla, Spain.
1996. Conservación y Medio Ambiente en Andalucía. Cazorla, Jaén, Spain.
1996. Evolution, Ecology and Conservation of Mammalian Carnivores. Madrid, Spain.
1997. V Jornadas Asociación Española de Ecología Terrestre. Córdoba, Spain.
1999. 7th Congress of the European Society for Evolutionary Biology. Barcelona, Spain.
2000. Symposium on “Aspectos funcionales de los ecosistemas Mediterráneos”, Asociación Española de Ecología Terrestre. Granada, Spain.
2001. XX Reunión Argentina de Ecología. San Carlos de Bariloche, Argentina.
2002. Primer Congreso de Estudiantes de Posgrado del Instituto de Ecología. Xalapa, México.
2003. 88th Annual Meeting, Ecological Society of America. Savannah, Georgia, USA.
2007. Simposio Avances en Interacciones Interespecíficas. Instituto de Ecología, Xalapa, México.
2008. 93th Annual Meeting, Ecological Society of America. Milwaukee, Wisconsin, USA.
2008. Congreso Mexicano de Ecología. Mérida, Yucatán, México.
2009. IX Congreso Nacional de la Asociación Española de Ecología Terrestre. Úbeda, Jaén, Spain.
2010. XIII Congreso Nacional y X Iberoamericano de Etología. Ciudad Real, Spain.
2011. ESF–EMBO Symposium “*Epigenetics in context: from ecology to evolution*”. Sant Feliu de Guixols, Spain.
2012. EcoGenes 7FP Regpot Project Symposium “*Global Change in the Mediterranean: Learning from experiences worldwide*”. Sevilla, Spain.
2013. Biology13. Joint congress of the Swiss Zoological Society, Swiss Botanical Society, and Swiss Systematics Society. Basel, Switzerland.
2013. XIV Congress of the European Society of Evolutionary Biology, Lisbon, Portugal.
2016. 5th Congress of Spanish Society for Evolutionary Biology (SESBE), Murcia, Spain.
2017. VIII Congreso de Biología de Conservación de Plantas, Sociedad Española de Biología de la Conservación de Plantas, Madrid, Spain.
2017. Ecology Across Borders – Joint Annual Meeting 2017 British Ecological Society-European Ecological Federation, Ghent, Belgium.
2021. Epidiverse EpiDiv 2021 Conference. Linking ecology, molecular biology and bioinformatics in plant epigenetic research. Sevilla, Spain.
2024. Calpe Conference 2024, Gibraltar, UK.
2025. III Sibecol & XVII AEET Meeting. Pontevedra, Spain.

Selected professional services

- 1978-1993. Member of the International Ornithological Committee.
- 1979-1982. Member of the Commission of Ecology, International Union for Conservation of Nature (IUCN).
- 1983-1988. Member of the Steering Committee of the European Ecological Symposia.
- 1983, 1988. External advisor, Royal Swedish Academy of Sciences.
- 1983-1986. Member of the Spanish Advisory Commission in Science and Technology (CAICYT).
- 1986-present. Member of the Executive Committee, Parque Natural de Cazorla, Segura y Las Villas (Jaén).
- 1988-1996. Deputy Director, Estación Biológica de Doñana.
1990. Member of the Advisory Committee, Spanish National Commission for Evaluation of Scientific Activity.
1990. External Advisor, Centre National de la Recherche Scientifique (C.N.R.S.), France.
- 1992-1993. Member of the Experts Committee, Andalusian Institute of Environment.

- 1993-1995. Member of the Natural Resources Committee, Spanish Council for Scientific Research (CSIC).
- 1993-1996. Member of the Scientific Advisory Committee, Spanish Council for Scientific Research (CSIC).
- 1998-1999. Member of the Executive Committee, Parque Natural de la Sierra de Castril (Granada).
1998. Vice-President, Society for the Study of Evolution, USA.
- 1999-2000. Chairman, Panel Natural Resources and Environment, Andalusian Regional Government Research Plan.
2001. Search Committee for Senior Position in Plant Ecology, University of Stockholm, Swedish Research Council.
- 1999-2002. Steering Committee, LINKECOL ESF Program, European Science Foundation.
- 1999-2002. Council member, European Society of Evolutionary Biology.
- 2001-2002. Committee for Ramon & Cajal Contracts, Spanish Ministry of Science and Education.
2003. Member of Jury, Spanish National Research Awards.
- 2005-2008. Council member, European Society of Evolutionary Biology.
- 2005-2006. Panel member, Conservation biology and biodiversity projects, Fundación BBVA, Spain.
- 2009-2013. INTECOL 2013 International Scientific Committee, British Ecological Society.
- 2012-2013. Panel member, National Agency for the Evaluation of Universities and Research Institutes (ANVUR), Italy.
- 2012-2016. Steering Committee member, Severo Ochoa Excellence Program, Estación Biológica de Doñana, CSIC.
2013. Evaluation panel for tenure track positions. University of Oulu, Finland.

Impact of scientific publications

Citation metrics

Stanford Ranking (career, 2021):

c (ns) = 4.3287, World rank = 4,845th, Spain rank = 26th, CSIC rank = 4th

	Web of Knowledge	Google Scholar
Cumulative number of citations	16,015	26,527
H index	73	87

Commentaries/highlights/reviews of publications in professional journals

Publication referred	Commentary/highlight/review
Herrera, C. M. 1997. <i>Oikos</i> 78, 601-611.	Moore, P. D. 1997. Insect pollinators see the light. <i>Nature</i> 387, 759-760.
Herrera, C. M. 1998. <i>Ecol. Monogr.</i> 68, 511-538.	Invited commentary: Levey, D. J., and Benkman, C. 1999. Fruit-seed disperser interactions: timely insights from a long-term perspective. <i>Trends in Ecology & Evolution</i> 14, 41-43.
Herrera, C. M. 2000. <i>Ecology</i> 81, 15-29.	Editor's Choice: Highlights of the recent literature. <i>Science</i> 287, 935.

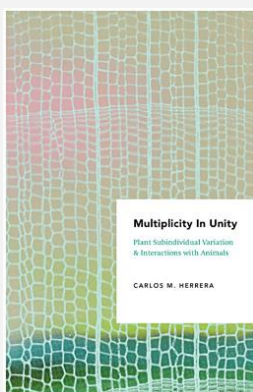
Herrera, C. M. 2001. *J. Evol. Biol.* 14, 574-584.

Herrera, C. M., and O. Pellmyr, eds. 2002. *Plant-animal interactions: an evolutionary approach*. Blackwell, Oxford.

Rey, P. J., C. M. Herrera, et al. 2006. *J. Evol. Biol.* 19, 21-34.

Herrera, C. M., et al. 2008. *Ecology* 89, 2369-2376.

Herrera, C. M. 2009. *Multiplicity in unity. Plant subindividual variation and interactions with animals*. University of Chicago Press.



Herrera, C. M., and P. Bazaga. 2010. *New Phytologist* 187, 867-876.

Herrera, C. M., and P. Bazaga. 2011. *Molecular Ecology* 20, 1675-1688.

Herrera, C. M., M. I. Pozo, and P. Bazaga. 2011. *Molecular Ecology* 20, 4395-4407.

Herrera, C. M., M. I. Pozo, and P. Bazaga. 2012. *Molecular Ecology* 21, 2602-2626

Brown, K. S. 2002. A compromise on floral traits. *Science* 298, 45-46.

American Journal of Botany 90, 330-332; *Ecology* 84, 807-808; *Global Ecology & Biogeography* 12, 357-360; *Quarterly Review of Biology* 78, 82-83; *Trends in Ecology & Evolution* 18, 12.

Faculty of 1000 Biology (Factor 3).

Featured in journal front cover

Faculty of 1000 Biology (Factor 6)

Harder, L. D. 2010. Variations on a theme – the ecology and evolution of within-plant diversity. *Evolution* 64, 2184-2187

Shaw, A. J. 2010. Intra-individual variation. *The Bryologist* 113, 423-425.

Wardle, D. A. 2010. Subindividual plant trait variation matters. *BioScience* 60, 764-765.

Carrión, J. S. 2010. *Anales del Jardín Botánico de Madrid* 67, 203-204.

Raguso, R. A. 2011. *Quarterly Review of Biology* 86, 146-147.

Scogings, P. F. 2011. *Austral Ecology* 36, e22.

del-Val, E. 2012. *Annals of Botany*.
[doi:10.1093/aob/mcs279](https://doi.org/10.1093/aob/mcs279).

Faculty of 1000 Biology (Factor 8).

Invited commentary: Richards, C. L., O. Bossdorf, K. J. F. Verhoeven. 2010. Understanding natural epigenetic variation. *New Phytologist* 187, 562-564.

Invited commentary: Bossdorf, O., and Y. Zhang. 2011. A truly ecological epigenetics study. *Molecular Ecology* 20, 1572-1574.

Featured in journal front cover

Invited commentary: Gerstein, A., and J. S. Moore. 2011. Small is the new big: assessing the population structure of microorganisms. *Molecular Ecology* 20, 4385-4387.

Invited commentary: Schrey, A., and C. L. Richards. 2012. Within-genotype epigenetic variation underlies the phenotypic plasticity that allows for a broad niche width. *Molecular Ecology* 21, 2559-2561.

Herrera, C. M., and P. Bazaga. 2013. <i>Botanical Journal of the Linnean Society</i> 171, 441–452.	Highlighted by The Linnean Society of London: Why is holly prickly?
Herrera, C. M., M. I. Pozo, and M. Medrano. 2013. <i>Ecology</i> 94, 273-279.	Invited commentary, highlighted in photo gallery. Featured in journal front cover of Bulletin of the Ecological Society of America
Medrano, M., E. López-Perea, and C. M. Herrera. 2014. <i>International Journal of Plant Sciences</i> 175, 501-517	Featured in journal front cover
Herrera, C. M., P. Bazaga, R. Pérez, and C. Alonso. 2021. <i>New Phytologist</i> 231, 2065-2076.	Invited commentary: Wetzels, W. C. 2021. Plants as epigenetic mosaics: harnessing variability to thrive in a variable world. <i>New Phytologist</i> 231, 1667-1669.
de Vega, C., R. G. Albaladejo, S. Álvarez-Pérez, and C. M. Herrera. 2022. <i>American Journal of Botany</i> 109, 393-405	Featured in journal front cover
Herrera, C. M., M. Medrano, P. Bazaga, and C. Alonso. 2022. Ecological significance of intraplant variation: epigenetic mosaicism in <i>Lavandula latifolia</i> plants predicts extant and transgenerational variability of fecundity-related traits. <i>Journal of Ecology</i> 110, 2555-2567.	Editor's Choice (110: 11). <i>Journal of Ecology</i> , The Blog. Does the life of the parent affect the fitness of the child, and the grandchild?
Herrera, C. M., A. Núñez, J. Valverde, and C. Alonso. 2023. Body mass decline in a Mediterranean community of solitary bees supports the size shrinking effect of climatic warming. <i>Ecology</i> 104, e4128	Featured in journal front cover
Herrera, C. M. 2024. Refrigerated flowers in the torrid Mediterranean summer. <i>Ecology</i> 105, e4268	Photo Gallery <i>Bulletin of the Ecological Society of America</i> 105, e02137. This flower refrigerates itself to survive scorching summers. <i>Scientific American</i> , February 27, 2024

Selected media coverage

2002. C. M. Herrera [interviewed by Carmen Recuero](#) in *Quercus* **198**, 46-47.
2003. C. M. Herrera featured in Diario ABC, [Españoles en la Vanguardia de la Ciencia](#).
2004. C. M. Herrera [biographed by B. Varillas](#) in *Quercus* **226**, 8-11.
2005. C. M. Herrera featured in Diario El País, "[15 científicos que investigan en España, entre los más citados del mundo](#)".
2010. Blog *Ciencia Dicente* features C. M. Herrera, "[Cómo ser darwiniano y no matar en el intento](#)".
2010. Blog *Segura en Verde* interviews C. M. Herrera, "[Así ve el Parque el mejor ecólogo español](#)".
2010. Agencia EFE interviews C. M. Herrera, "[Los espacios naturales son laboratorios que hay que conservar](#)".
2011. Casa de la Ciencia (CSIC) features C. M. Herrera, "[La ciencia le eligió a él](#)".

Selected press highlights of scientific publications:

2010. The New York Times [Yeast makes temperatures rise, too](#)
2010. New Scientist [Stinky flower is kept warm by yeast partner](#)
2010. The Scientist [Yeast heaters](#)
2010. Der Spiegel [Stinkende Nieswurz lockt frierende Hummeln](#)
2010. El Norte de Castilla. [Científico del CSIC descubre que la levadura calienta las plantas invernales](#)
2010. Agencia EFE. [La levadura, calefacción de las plantas invernales.](#)
2010. ScienceDaily [Withering well can improve fertility](#)
2011. Kew Magazine [Central heating for hellebores](#)
2012. National Geographic Daily News: [Hollies get prickly for a reason](#)
2013. The Washington Post [The internal greenhouse effect of a daffodil](#)
2023. New Scientist [Wild bees are rapidly shrinking due to global warming.](#)
2024. ScienceNews. [On hot summer days, this thistle is somehow cool to the touch.](#)
2024. EfeVerde. [El cardo, una "planta botijo" que mantiene sus flores 10 grados más frías en verano](#)

Scientific publications

(a) Books and monographs

- a1. **Herrera, C. M.** 1980. *Composición y estructura de dos comunidades mediterráneas de Passeriformes*. Doñana Acta Vertebrata, Special Monograph, 340 p.
- a2. Amat, J. A., Díaz, C., **Herrera, C. M.**, Jordano, P., Obeso, J. R. and Soriguer, R. C. 1985. *Criterios de valoración de zonas húmedas de importancia nacional y regional en función de las aves acuáticas*. Monografías ICONA, Minist. Agricult., Madrid. 78 p.
- a3. **Herrera, C. M.**, Araque, E. and Sánchez, J. D. 1992. *Bibliografía sobre historia natural y geoeconómica del Parque Natural de las Sierras de Cazorla, Segura y Las Villas*. Agencia de Medio Ambiente, Junta de Andalucía, Jaén. 83 p.
- a4. Blanca, G., B. Cabezudo, J. E. Hernández-Bermejo, **C. M. Herrera**, J. Molero Mesa, J. Muñoz and B. Valdés. 1999. *Libro rojo de la flora silvestre amenazada de Andalucía. I. Especies en peligro de extinción*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, Spain. 302 p.
- a5. Blanca, G., B. Cabezudo, J. E. Hernández-Bermejo, **C. M. Herrera**, J. Muñoz and B. Valdés. 2000. *Libro rojo de la flora silvestre amenazada de Andalucía. II. Especies vulnerables*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, Spain. 375 p.
- a6. **Herrera, C. M.**, and O. Pellmyr, editors. 2002. *Plant-animal interactions: an evolutionary approach*. Blackwell Scientific Publications, Oxford, England.
- a7. **Herrera, C. M.**, editor. 2004. *El monte mediterráneo en Andalucía*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla.
- a8. Alonso, C., J. L. Garrido, and **C. M. Herrera**. 2004. *Investigaciones sobre plantas y animales en las Sierras de Cazorla, Segura y Las Villas. 25 años de estudios por el CSIC*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, 133 p.
- a9. Cabezudo, B., S. Talavera, G. Blanca, C. Salazar, M. Cueto, B. Valdés, J. E. Hernández Bermejo, **C. M. Herrera**, C. Rodríguez Hiraldo, and D. Navas. 2005. *Lista roja de la flora vascular de Andalucía*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, 126 p.
- a10. **Herrera, C. M.** 2009. *Multiplicity in unity. Plant subindividual variation and interactions with animals*. University of Chicago Press, Chicago, 448 p.

- a11. Ortiz-Sánchez, F. J., J. Valverde, A. Núñez Carbajal, C. Alonso, and **C. M. Herrera**. 2023. The bees (Hymenoptera, Apoidea) of Sierra de Cazorla (Spain). *Monografías Sociedad Entomológica Aragonesa* **17**, 91 p.

(b) Book chapters

- b1. **Herrera, C. M.** 1980. Seasonal patterns in bird community organization. Local and global approaches. Pages 1082-1087 in R. Nöhring (Ed.), *Acta XVII Congressus Internationalis Ornithologici*. Deutschen Ornithologen-Gesellschaft, Berlin.
- b2. **Herrera, C. M.** 1985. Habitat-consumer interaction in frugivorous birds. Pages 341-365 in M. L. Cody (Ed.), *Habitat selection in birds*. Academic Press, New York.
- b3. **Herrera, C. M.** 1986. Vertebrate-dispersed plants: Why they don't behave the way they should. In A. Estrada and T. H. Fleming (Eds.), *Frugivores and seed dispersal*, pp. 5-18. Junk, Dordrecht, The Netherlands.
- b4. **Herrera, C. M.** 1988. La invernada de aves en la Península Ibérica: cifras, biología y conservación. Pages 201-206 in J. L. Tellería and T. Santos (Eds.), *Invernada de aves en la Península Ibérica*. Sociedad Española de Ornitología, Madrid.
- b5. **Herrera, C. M.** 1988. Avian frugivory and seed dispersal in Mediterranean habitats: regional variation in plant-animal interaction. Pages 509-517 in H. Ouellet (Ed.), *Acta XIX Congressus Internationalis Ornithologici*, Vol. 1. Nat. Museum Nat. Sciences, Univ. Ottawa Press, Ottawa, Canada.
- b6. **Herrera, C. M.** 1992. Mediterranean plant-bird seed dispersal systems: the roles of history and adaptation. Pages 241-250 in C. A. Thanos (Ed.), *Plant-animal interactions in Mediterranean-type ecosystems*. Proceedings of the 6th International Conference on Mediterranean Climate Ecosystems. University of Athens, Athens, Greece.
- b7. **Herrera, C. M.** 1989. Dinàmica i funcionalitat dels ecosistemes terrestres: les relacions de mutualisme. Pages 197-203 in J. Terradas, N. Prat, A. Escarré and R. Margalef (Eds.), *Història Natural dels Països Catalans*. Vol. 14. Sistemes Naturals. Enciclopèdia Catalana, Barcelona, Spain.
- b8. **Herrera, C. M.** 1993. La gestión de la diversidad biológica. Pages 255-279 in J. M. Naredo and F. Parra (Eds.), *Hacia una ciencia de los recursos naturales*. Siglo Veintiuno Editores, Madrid.
- b9. **Herrera, C. M.** 1996. Floral traits and plant adaptation to insect pollinators: a devil's advocate approach. Pages 65-87 in D. G. Lloyd and S. C. H. Barrett (Eds.), *Floral Biology. Studies on floral evolution in animal-pollinated plants*. Chapman & Hall, New York.
- b10. **Herrera, C. M.** 1996. El papel de los carnívoros en la dispersión de semillas. Pages 201-216 in R. García-Perea, R. A. Baquero, R. Fernández-Salvador and J. Gisbert (Eds.), *Carnívoros. Evolución, ecología y conservación*. Museo Nacional Ciencias Naturales, Consejo Superior de Investigaciones Científicas, Madrid.
- b11. **Herrera, C. M.** 2001. Dispersión de semillas por animales en el Mediterráneo: ecología y evolución. In R. Zamora and F. I. Pugnaire (Eds.), *Ecosistemas Mediterráneos. Análisis Funcional*, pp. 125-152. Colección Textos Universitarios nº 32, Servicio de Publicaciones, Consejo Superior de Investigaciones Científica, Madrid.
- b12. **Herrera, C. M.** 2002. Seed dispersal by vertebrates. Pages 185-208 in C. M. Herrera and O. Pellmyr (Eds.), *Plant-animal interactions: an evolutionary approach*. Blackwell Scientific Publications, Oxford, England.
- b13. **Herrera, C. M.** 2002. Cincuenta años de ecología evolutiva. Crónica y logros de una reconciliación intelectual. Pages 83-95 in R. Hernández Tristán, L. Corral Mora and F. Infante García-Pantaleón (Eds.), *50 años de Biología en España*. Publ. Obra Social Cultural Cajasur, Córdoba, Spain.

- b14. **Herrera, C. M.** 2004. Ecología de los pájaros frugívoros ibéricos. Pages 127-153 in J. L. Tellería (Ed.), *La ornitología hoy. Homenaje al Profesor Francisco Bernis Madrazo*. Editorial Complutense, Universidad Complutense, Madrid.
- b15. **Herrera, C. M.**, M. C. Castellanos, and M. Medrano. 2006. Geographical context of floral evolution: towards an improved research program in floral diversification. Pages 278-294 in L. D. Harder and S. C. H. Barrett (Eds.), *The ecology and evolution of flowers*. Oxford University Press, Oxford, England.
- b16. **Herrera, C. M.** 2012. Genomic scan as a tool for assessing the genetic component of phenotypic variance in wild populations. Pages 315-329 in F. Pompanon and A. Bonin (Eds.), *Population genomics: methods and protocols. Methods in Molecular Biology Series, Vol. 888*. Humana Press, New York, USA.
- b17. **Herrera, C. M.** 2016. Cincuenta años de investigación ecológica por y en la Estación Biológica de Doñana: una exploración bibliométrica. Pages 61-77 in M. Ferrer (Ed.), *Doñana. 50 años de investigaciones científicas*. Colección Anejos Arbor, Consejo Superior de Investigaciones Científicas, Madrid.

(c) Journal papers

- c1. **Herrera, C. M.** 1974. El paso otoñal de *Sylvia borin* y *Sylvia communis* en la Reserva de Doñana. *Doñana Acta Vertebrata* **1**: 83-119.
- c2. **Herrera, C. M.** 1974. Biometría y sistemática de *Pitymys duodecimcostatus* de Sélys-Longchamps 1839 (Mammalia, Rodentia) en el sur de España. *Arquivos Museu Bocage, Lisboa* **4**: 261-276.
- c3. **Herrera, C. M.** 1974. Trophic diversity of the Barn Owl *Tyto alba* in continental western Europe. *Ornis Scandinavica* **5**: 181-191.
- c4. **Herrera, C. M.** 1974. Régimen alimenticio de *Tyto alba* Scop. en España suroccidental. *Ardeola* **19**: 359-394.
- c5. **Herrera, C. M.** 1974. La captura de carnívoros por las Strigiformes. *Ardeola* **19**: 439-444.
- c6. **Herrera, C. M.** 1974. Observaciones sobre una colonia de Garcillas Bueyeras (*Bubulcus ibis*) en Andalucía. *Ardeola* **20**: 287-306.
- c7. **Herrera, C. M.** and Ramírez, A. 1974. Food of bee-eaters in southern Spain. *British Birds* **67**: 158-164.
- c8. **Herrera, C. M.** and Soriguer, R. C. 1974. Morfología y dimorfismo sexual de la pelvis de *Pitymys duodecimcostatus*. *Doñana Acta Vertebrata* **1**: 245-254.
- c9. Hiraldo, F. and **Herrera, C. M.** 1974. Dimorfismo sexual y diferenciación de edades en *Sturnus unicolor* Temm. *Doñana Acta Vertebrata* **1**: 149-170.
- c10. **Herrera, C. M.** and Hidalgo, J. 1974. Sobre la presencia invernal de *Clamator glandarius* en Andalucía. *Ardeola* **20**: 307-311.
- c11. **Herrera, C. M.** 1975. A note on the emetic technique for obtaining food samples from passerine birds. *Doñana Acta Vertebrata* **2**: 77-82.
- c12. **Herrera, C. M.** 1976. A trophic diversity index for presence-absence food data. *Oecologia (Berlin)* **25**: 187-191.
- c13. **Herrera, C. M.** and Hiraldo, F. 1976. Food-niche and trophic relationships among European owls. *Ornis Scandinavica* **7**: 29-41.
- c14. **Herrera, C. M.** 1977. Ecología alimenticia del Petirrojo (*Erithacus rubecula*) durante su invernada en encinares del sur de España. *Doñana Acta Vertebrata* **4**: 35-59.
- c15. **Herrera, C. M.** and Soriguer, R. C. 1977. Composición de las comunidades de passeriformes en dos biotopos de Sierra Morena occidental. *Doñana Acta Vertebrata* **4**: 127-138.

- c16. Amat, J. A. and **Herrera, C. M.** 1977. Alimentación de la Garza Imperial (*Ardea purpurea*) en las Marismas del Guadalquivir durante el período de nidificación. *Ardeola* **24**: 95-104.
- c17. **Herrera, C. M.** 1978. Datos sobre la dieta invernal del Colirrojo Tizón (*Phoenicurus ochruros*) en encinares de Andalucía occidental. *Doñana Acta Vertebrata* **5**: 61-71.
- c18. **Herrera, C. M.** 1978. Evolución estacional de las comunidades de passeriformes en dos encinares de Andalucía occidental. *Ardeola* **25**: 143-180.
- c19. **Herrera, C. M.** 1978. Niche-shift in the genus *Parus* in southern Spain. *Ibis* **120**: 236-240.
- c20. **Herrera, C. M.** 1978. On the breeding distribution pattern of European migrant birds: MacArthur's theme re-examined. *Auk* **95**: 496-509.
- c21. **Herrera, C. M.** 1978. Individual dietary differences associated with morphological variation in Robins *Erithacus rubecula*. *Ibis* **120**: 542-545.
- c22. **Herrera, C. M.** 1978. Ecological correlates of residence and non-residence in a Mediterranean passerine bird community. *Journal of Animal Ecology* **47**: 871-890.
- c23. **Herrera, C. M.** 1979. Ecological aspects of heterospecific flocks formation in a Mediterranean passerine bird community. *Oikos* **33**: 85-96.
- c24. **Herrera, C. M.**, and F. M. Jaksic. 1980. Feeding ecology of the Barn Owl in central Chile and southern Spain: a comparative study. *Auk* **97**: 760-767.
- c25. **Herrera, C. M.** 1981. Fruit variation and competition for dispersers in natural populations of *Smilax aspera*. *Oikos* **36**: 51-58.
- c26. **Herrera, C. M.** 1981. Fruit food of Robins wintering in southern Spanish Mediterranean scrubland. *Bird Study* **28**: 115-122.
- c27. **Herrera, C. M.** 1981. Are tropical fruits more rewarding to dispersers than temperate ones? *American Naturalist* **118**: 896-907.
- c28. **Herrera, C. M.** 1981. Combination rules among western European *Parus* species. *Ornis Scandinavica* **12**: 140-147.
- c29. **Herrera, C. M.** 1981. Organización temporal en las comunidades de aves. *Doñana Acta Vertebrata* **8**: 79-101.
- c30. **Herrera, C. M.** 1981. Datos sobre la dieta frugívora del Mirlo (*Turdus merula*) en dos localidades del sur de España. *Doñana Acta Vertebrata* **8**: 306-310.
- c31. **Herrera, C. M.**, and P. Jordano. 1981. *Prunus mahaleb* and birds: the high-efficiency seed dispersal system of a temperate fruiting tree. *Ecological Monographs* **51**: 203-218.
- c32. Jordano, P., and **C. M. Herrera**. 1981. The frugivorous diet of Blackcap populations *Sylvia atricapilla* wintering in southern Spain. *Ibis* **123**: 502-507.
- c33. **Herrera, C. M.** 1982. Defense of ripe fruits from pests: its significance in relation to plant-disperser interactions. *American Naturalist* **120**: 218-241.
- c34. **Herrera, C. M.** 1982. Some comments on Stiles' paper on bird-disseminated fruits. *American Naturalist* **120**: 819-822.
- c35. **Herrera, C. M.** 1982. Breeding systems and dispersal-related maternal reproductive effort of southern Spanish bird-dispersed plants. *Evolution* **36**: 1299-1314.
- c36. **Herrera, C. M.** 1982. Reply to Bawa. *Evolution* **36**: 1325-1326.
- c37. **Herrera, C. M.** 1982. Grasses, grazers, mutualism, and coevolution: a comment. *Oikos* **38**: 254-258.
- c38. **Herrera, C. M.** 1982. Seasonal variation in the quality of fruits and diffuse coevolution between plants and avian dispersers. *Ecology* **63**: 773-785.

- c39. Jaksic, F. M., R. L. Seib, and **C. M. Herrera**. 1982. Predation by the Barn Owl (*Tyto alba*) in Mediterranean habitats of Chile, Spain and California: a comparative approach. *American Midland Naturalist* **107**: 151-162.
- c40. **Herrera, C. M.**, and R. C. Soriguer. 1983. Intra- and inter-floral heterogeneity of nectar production in *Helleborus foetidus* L. (Ranunculaceae). *Botanical Journal of the Linnean Society* **86**: 253-260.
- c41. **Herrera, C. M.** 1984. Selective pressures on fruit seediness: differential predation of fly larvae on the fruits of *Berberis hispanica*. *Oikos* **42**: 166-170.
- c42. **Herrera, C. M.** 1984. Avian interference of insect frugivory: an exploration into the plant-bird-fruit pest evolutionary triad. *Oikos* **42**: 203-210.
- c43. **Herrera, C. M.** 1984. Coevolución de plantas y frugívoros: la invernada mediterránea de algunos passeriformes. *Alytes* **1**: 177-190.
- c44. **Herrera, C. M.** 1984. A study of avian frugivores, bird-dispersed plants, and their interaction in Mediterranean scrublands. *Ecological Monographs* **54**: 1-23.
- c45. **Herrera, C. M.** 1984. Adaptation to frugivory of Mediterranean avian seed dispersers. *Ecology* **65**: 609-617.
- c46. **Herrera, C. M.** 1984. Significance of ants in the diet of insectivorous birds in southern Spanish Mediterranean habitats. *Ardeola* **30**: 77-81.
- c47. **Herrera, C. M.** 1984. Seed dispersal and fitness determinants in wild rose: combined effects of hawthorn, birds, mice, and browsing ungulates. *Oecologia (Berlin)* **63**: 386-393.
- c48. **Herrera, C. M.** 1984. The annual cycle of *Osyris quadripartita*, a hemiparasitic dioecious shrub of Mediterranean scrublands. *Journal of Ecology* **72**: 1065-1078.
- c49. **Herrera, C. M.**, J. Herrera, and X. Espadaler. 1984 Nectar thievery by ants from southern Spanish insect-pollinated flowers. *Insectes Sociaux* **31**: 142-154.
- c50. **Herrera, C. M.** 1985. Determinants of plant-animal coevolution: the case of mutualistic dispersal of seeds by vertebrates. *Oikos* **44**: 132-141.
- c51. **Herrera, C. M.** 1985. Predispersal reproductive biology of female *Osyris quadripartita* (Santalaceae), a hemiparasitic dioecious shrub of Mediterranean scrublands. *Botanical Journal of the Linnean Society* **90**: 113-127.
- c52. **Herrera, C. M.** 1985. Aposematic insects as six-legged fruits: incidental short-circuiting of their defense by frugivorous birds. *American Naturalist* **126**: 286-293.
- c53. **Herrera, C. M.** 1985. Tipos morfológicos y funcionales en plantas leñosas del matorral mediterráneo del sur de España. *Studia Oecologica* **5**: 7-34.
- c54. **Herrera, C. M.** 1985. Grass/grazer radiations: an interpretation of silica-body diversity. *Oikos* **45**: 446-447.
- c55. **Herrera, C. M.** 1986. On the scaling of intestine length to body size in interspecific comparisons. *Ornis Fennica* **63**: 50-51.
- c56. **Herrera, C. M.** 1987. Distribución, ecología y conservación de *Atropa baetica* Willk. (Solanaceae) en la Sierra de Cazorla. *Anales del Jardín Botánico de Madrid* **43**: 387-398.
- c57. **Herrera, C. M.** 1987. Components of pollinator "quality": comparative analysis of a diverse insect assemblage. *Oikos* **50**: 79-90.
- c58. **Herrera, C. M.** 1987. Componentes del flujo génico en *Lavandula latifolia* Medicus: polinización y dispersión de semillas. *Anales del Jardín Botánico de Madrid* **44**: 49-61.
- c59. **Herrera, C. M.** 1987. Vertebrate-dispersed plants of the Iberian Peninsula: a study of fruit characteristics. *Ecological Monographs* **57**: 305-331.
- c60. **Herrera, C. M.** 1988. The fruiting ecology of *Osyris quadripartita*: individual variation and evolutionary potential. *Ecology* **69**: 233-249.

- c61. **Herrera, C. M.** 1988. Habitat-shaping, host-plant use by a hemiparasitic shrub, and the importance of gut fellows. *Oikos* **51**: 383-386.
- c62. **Herrera, C. M.** 1988. Variation in mutualisms: the spatio-temporal mosaic of an insect pollinator assemblage. *Biological Journal of the Linnean Society* **35**: 95-125.
- c63. **Herrera, C. M.** 1988. Biología y ecología de *Viola cazorlensis*. I. Variabilidad en caracteres florales. *Anales del Jardín Botánico de Madrid* **45**: 233-246.
- c64. **Herrera, C. M.** 1988. Plant size, spacing patterns, and host plant selection in *Osyris quadripartita*, a hemiparasitic dioecious shrub. *Journal of Ecology* **76**: 995-1006.
- c65. **Herrera, C. M.** 1988. Variaciones anuales en las poblaciones de pájaros frugívoros y su relación con la abundancia de frutos. *Ardeola* **35**: 135-142.
- c66. **Herrera, C. M.** 1989. Vertebrate frugivores and their interaction with invertebrate fruit predators: supporting evidence from a Costa Rican dry forest. *Oikos* **54**: 185-188.
- c67. **Herrera, C. M.** 1989. Seed dispersal by animals: a role in angiosperm diversification? *American Naturalist* **133**: 309-322.
- c68. **Herrera, C. M.** 1989. Temperate frugivory and seed dispersal. *Trends in Ecology and Evolution* **4**: 90-91. (Book review)
- c69. **Herrera, C. M.** 1989. Frugivory and seed dispersal by carnivorous mammals, and associated fruit characteristics, in undisturbed Mediterranean habitats. *Oikos* **55**: 250-262.
- c70. **Herrera, C. M.** 1989. Pollinator abundance, morphology, and flower visitation rate: analysis of the "quantity" component in a plant-pollinator system. *Oecologia (Berlin)* **80**: 241-248.
- c71. **Herrera, C. M.** 1990. Biología y ecología de *Viola cazorlensis*. II. Uso de sustratos, reproducción y consumo por los herbívoros. *Anales del Jardín Botánico de Madrid* **47**: 125-128.
- c72. **Herrera, C. M.** 1990. The adaptedness of the floral phenotype in a relict endemic, hawkmoth-pollinated violet. 1. Reproductive correlates of floral variation. *Biological Journal of the Linnean Society* **40**: 263-274.
- c73. **Herrera, C. M.** 1990. The adaptedness of the floral phenotype in a relict endemic, hawkmoth-pollinated violet. 2. Patterns of variation among disjunct populations. *Biological Journal of the Linnean Society* **40**: 275-291.
- c74. **Herrera, C. M.** 1990. Bumblebees feeding on non-plant food sources. *Bee World* **71**: 67-69.
- c75. **Herrera, C. M.** 1990. Daily patterns of pollinator activity, differential pollinating effectiveness, and floral resource availability, in a summer-flowering Mediterranean shrub. *Oikos* **58**: 277-288.
- c76. **Herrera, C. M.** 1990. Brood size reduction in *Lavandula latifolia*: a test of alternative hypotheses. *Evolutionary Trends in Plants* **4**: 99-105.
- c77. **Herrera, C. M.** 1991. Dissecting factors responsible for individual variation in plant fecundity. *Ecology* **72**: 1439-1448.
- c78. **Herrera, C. M.** 1992. Activity pattern and thermal biology of a day-flying hawkmoth (*Macroglossum stellatarum*) under Mediterranean summer conditions. *Ecological Entomology* **17**: 52-56.
- c79. **Herrera, C. M.** 1992. Individual flowering time and maternal fecundity in a summer-flowering Mediterranean shrub: making the right prediction for the wrong reason. *Acta Oecologica* **13**: 13-24.
- c80. **Herrera, C. M.** 1992. Historical effects and sorting processes as explanations of contemporary ecological patterns: character syndromes in Mediterranean woody plants. *American Naturalist* **140**: 421-446.
- c81. **Herrera, C. M.** 1992. Interspecific variation in fruit shape: allometry, phylogeny, and adaptation to dispersal agents. *Ecology* **73**: 1832-1841.

- c82. **Herrera, C. M.** 1993. Selection on floral morphology and environmental determinants of fecundity in a hawkmoth-pollinated violet. *Ecological Monographs* **63**: 251-275.
- c83. **Herrera, C. M.** 1993. Selection on complexity of corolla outline in a hawkmoth-pollinated violet. *Evolutionary Trends in Plants* **7**: 9-13.
- c84. Yela, J. L., and **C. M. Herrera**. 1993. Seasonality and life cycles of woody plant-feeding noctuid moths (Lepidoptera: Noctuidae) in Mediterranean habitats. *Ecological Entomology* **18**: 259-269.
- c85. **Herrera, C. M.**, P. Jordano, L. López-Soria, and J. A. Amat. 1994. Recruitment of a mast-fruiting, bird-dispersed tree: bridging frugivore activity and seedling establishment. *Ecological Monographs* **64**: 315-344.
- c86. Obeso, J. R., and **C. M. Herrera**. 1994. Inter- and intraspecific variation in fruit traits in co-occurring vertebrate-dispersed plants. *International Journal of Plant Sciences* **155**: 382-387.
- c87. **Herrera, C. M.** 1995. Floral biology, microclimate, and pollination by ectothermic bees in an early-blooming herb. *Ecology* **76**: 218-228.
- c88. **Herrera, C. M.** 1995. Microclimate and individual variation in pollinators: flowering plants are more than their flowers. *Ecology* **76**: 1516-1524.
- c89. **Herrera, C. M.** 1995. Plant-vertebrate seed dispersal systems in the Mediterranean: ecological, evolutionary and historical determinants. *Annual Review of Ecology and Systematics* **26**:705-727.
- c90. Jordano, P., and **C. M. Herrera**. 1995. Shuffling the offspring: uncoupling and spatial discordance of multiple stages in vertebrate seed dispersal. *Écoscience* **2**: 230-237.
- c91. Alonso, C., and **C. M. Herrera**. 1996. Variation in herbivory within and among plants of *Daphne laureola* (Thymelaeaceae): correlation with plant size and architecture. *Journal of Ecology* **84**: 495-502.
- c92. **Herrera, C. M.** 1997. Thermal biology and foraging responses of insect pollinators to the forest floor irradiance mosaic. *Oikos* **78**: 601-611.
- c93. **Herrera, C. M.** 1998. Long-term dynamics of Mediterranean frugivorous birds and fleshy fruits: a 12-yr study. *Ecological Monographs* **68**: 511-538.
- c94. **Herrera, C. M.**, P. Jordano, J. Guitián, and A. Traveset. 1998. Annual variability in seed production by woody plants and the masting concept: reassessment of principles and relationship to pollination and seed dispersal. *American Naturalist* **152**: 576-594.
- c95. **Herrera, C. M.** 1998. Population-level estimates of interannual variability in seed production: What do they actually tell us ? *Oikos* **82**: 612-616.
- c96. **Herrera, C. M.** 2000. Flower-to-seedling consequences of different pollination regimes in an insect-pollinated shrub. *Ecology* **81**: 15-29.
- c97. **Herrera, C. M.** 2000. Measuring the effects of pollinators and herbivores: evidence for non-additivity in a perennial herb. *Ecology* **81**: 2170-2176.
- c98. **Herrera, C. M.** 2000. Individual differences in progeny viability in *Lavandula latifolia*: a long-term field study. *Ecology* **81**: 3036-3047.
- c99. Alonso, C., and **C. M. Herrera**. 2000. Seasonal variation in leaf characteristics and food selection by larval noctuids on an evergreen Mediterranean shrub. *Acta Oecologica* **21**: 257-265.
- c100. Alonso, C., and **C. M. Herrera**. 2001. Neither vegetative nor reproductive advantages account for high frequency of male-steriles in Southern Spanish gynodioecious *Daphne laureola* (Thymelaeaceae). *American Journal of Botany* **88**: 1016-1024.

- c101. **Herrera, C. M.**, A. Sánchez-Lafuente, M. Medrano, J. Guitián, X. Cerdá, and P. Rey. 2001. Geographical variation in autonomous self-pollination levels unrelated to pollinator service in *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany* **88**: 1025-1032.
- c102. Alonso, C., and **C. M. Herrera**. 2001. Patterns made of patterns: variation and covariation of leaf nutrient concentrations within and between populations of *Prunus mahaleb*. *New Phytologist* **150**: 629-640.
- c103. **Herrera, C. M.** 2001. Deconstructing a floral phenotype: do pollinators select for corolla integration in *Lavandula latifolia*? *Journal of Evolutionary Biology* **14**: 574-584.
- c104. **Herrera, C. M.**, X. Cerdá, M. B. García, J. Guitián, M. Medrano, P. Rey, and A. M. Sánchez-Lafuente. 2002. Floral integration, phenotypic covariance structure and pollinator variation in bumblebee-pollinated *Helleborus foetidus*. *Journal of Evolutionary Biology* **15**: 108-121.
- c105. **Herrera, C. M.** 2002. What Darwin forgot to mention about orchids. *Evolution*, **56**: 856-858. [Invited book review].
- c106. **Herrera, C. M.** 2002. Topsoil properties and seedling recruitment in *Lavandula latifolia*: stage-dependence and spatial decoupling of influential parameters. *Oikos* **97**: 260-270.
- c107. Garrido, J. L., P. J. Rey, X. Cerdá, and **C. M. Herrera**. 2002. Geographical variation in diaspore traits of an ant-dispersed plant (*Helleborus foetidus*): Are ant community composition and diaspore traits correlated? *Journal of Ecology* **90**: 446-455.
- c108. **Herrera, C. M.** 2002. Correlated evolution of fruit and leaf size in bird-dispersed plants: species-level variance in fruit traits explained a bit further? *Oikos* **97**: 426-432.
- c109. **Herrera, C. M.** 2002. Censusing natural microgametophyte populations: variable spatial mosaics and extreme fine-graininess in winter-flowering *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany* **89**: 1570-1578.
- c110. **Herrera, C. M.**, Medrano, M., Rey, P. J., Sánchez-Lafuente, A. M., García, M. B., Guitián, J. and Manzaneda, A. J. 2002. Interaction of pollinators and herbivores on plant fitness suggests a pathway for correlated evolution of mutualism- and antagonism-related traits. *Proceedings of the National Academy of Sciences USA* **99**: 16823-16828.
- c111. Guitián, J., M. Medrano, **C. M. Herrera**, and A. M. Sánchez-Lafuente. 2003. Variation in the structural gender in the hermaphrodite *Helleborus foetidus* (Ranunculaceae): within- and among-population patterns. *Plant Systematics and Evolution* **241**: 139-151.
- c112. Alonso, C., and **C. M. Herrera**. 2003. Developmental and spatial covariation of nutrients in growing leaves of *Daphne laureola* and their relationships with herbivory. *New Phytologist* **159**: 645-656.
- c113. **Herrera, C. M.** 2004. Distribution ecology of pollen tubes: fine-grained, labile spatial mosaics in southern Spanish Lamiaceae. *New Phytologist* **161**: 473-484.
- c114. Fedriani, J. M., P. J. Rey, J. L. Garrido, J. Guitián, **C. M. Herrera**, M. Medrano, A. M. Sánchez-Lafuente, and X. Cerdá. 2004. Geographical variation in the potential of mice to constrain an ant-seed dispersal mutualism. *Oikos* **105**: 181-191.
- c115. Barrett, S. C. H., W. W. Cole and **C. M. Herrera**. 2004. Mating patterns and genetic diversity in the wild daffodil *Narcissus longispathus* (Amaryllidaceae). *Heredity* **92**: 459-465.
- c116. Medrano, M., C. Alonso, and C. M. Herrera. 2005. Mating system, sex ratio, and persistence of females in the gynodioecious shrub *Daphne laureola* L. (Thymelaeaceae). *Heredity* **94**: 37-43.
- c117. Garrido, J. L., P. Rey, and **C. M. Herrera**. 2005. Pre- and post-germination determinants of the spatial variation in recruitment in the perennial herb *Helleborus foetidus* L. (Ranunculaceae). *Journal of Ecology* **93**: 60-66.

- c118. **Herrera, C. M.** 2005. Plant generalization on pollinators: species property or local phenomenon? *American Journal of Botany* **92**: 13-20.
- c119. **Herrera, C. M.** 2005. Resolution of respect. Ramón Margalef (1919-2004). *Bulletin of the Ecological Society of America* **86**: 8-11. [Invited biographical item].
- c120. Medrano, M., **C. M. Herrera**, and S. C. H. Barrett. 2005. Herkogamy and mating patterns in the self-compatible daffodil *Narcissus longispathus*. *Annals of Botany* **95**: 1105-1111.
- c121. **Herrera, C. M.** 2005. Post-floral perianth functionality: contribution of persistent sepals to seed development in *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany* **92**: 1486-1491.
- c122. Sánchez-Lafuente, A. M., J. Guitián, M. Medrano, **C. M. Herrera**, P. J. Rey, and X. Cerdá. 2005. Plant traits, environmental factors, and pollinator visitation in winter flowering *Helleborus foetidus* L. (Ranunculaceae). *Annals of Botany* **96**: 845-852.
- c123. Garrido, J. L., P. J. Rey, and **C. M. Herrera**. 2005. Fuentes de variación en el tamaño de semilla de la herbácea perenne *Helleborus foetidus* L. (Ranunculaceae). *Anales del Jardín Botánico de Madrid* **62**: 115-125
- c124. Rey, P. J., **C. M. Herrera**, J. Guitián, X. Cerdá, A. M. Sánchez-Lafuente, M. Medrano, and J. L. Garrido. 2006. The geographic mosaic in pre-dispersal interactions and selection on *Helleborus foetidus* (Ranunculaceae). *Journal of Evolutionary Biology* **19**: 21-34.
- c125. **Herrera, C. M.**, R. Pérez, and C. Alonso. 2006. Extreme intraplant variation in nectar sugar composition in an insect-pollinated perennial herb. *American Journal of Botany* **93**: 575-581.
- c126. Medrano, M., M. C. Castellanos, and **C. M. Herrera**. 2006. Comparative floral and vegetative differentiation between two *Aquilegia* taxa along a narrow contact zone. *Plant Systematics and Evolution* **262**: 209-224.
- c127. Canto, M. A., R. Pérez, M. Medrano, M. C. Castellanos, and **C. M. Herrera**. 2007. Intraplant variation in nectar sugar composition in two *Aquilegia* species (Ranunculaceae): contrasting patterns under field and greenhouse conditions. *Annals of Botany* **99**: 653-660.
- c128. Garrido, J. L., P. J. Rey, and **C. M. Herrera**. 2007. Regional and local variation in seedling emergence, mortality and recruitment of a perennial herb in Mediterranean mountain habitats. *Plant Ecology* **190**: 109-121.
- c129. Alonso, C., P. Mutikainen, and **C. M. Herrera**. 2007. Ecological context of breeding system variation: sex, size and pollination in a (predominantly) gynodioecious shrub. *Annals of Botany* **100**: 1547-1556.
- c130. Alonso, C., and **C. M. Herrera**. 2008. Site-specific features affect pollination success of a gynodioecious understory shrub in a gender-specific mode. *Écoscience* **15**: 358-365.
- c131. Canto, A., **C. M. Herrera**, M. Medrano, R. Pérez, and I. M. García. 2008. Pollinator foraging modifies nectar sugar composition in *Helleborus foetidus* L. (Ranunculaceae): an experimental test. *American Journal of Botany* **95**: 315-320.
- c132. Castellanos, M. C., M. Medrano, and **C. M. Herrera**. 2008. Genetic and environmental effects on subindividual variation in seed traits in a European *Aquilegia*. *Botany (formerly Canadian Journal of Botany)* **86**: 1125-1132.
- c133. **Herrera, C. M.**, and P. Bazaga. 2008. Adding a third dimension to the edge of a species' range: altitude and genetic structuring in mountainous landscapes. *Heredity* **100**: 275-285.
- c134. **Herrera, C. M.**, and P. Bazaga. 2008. Population-genomic approach reveals adaptive floral divergence in discrete populations of a hawk moth-pollinated violet. *Molecular Ecology* **17**: 5378-5390.
- c135. **Herrera, C. M.**, I. M. García, and R. Pérez. 2008. Invisible floral larcenies: microbial communities degrade floral nectar of bumble bee-pollinated plants. *Ecology* **89**: 2369-2376.

- c136. Medrano, M., and **C. M. Herrera**. 2008. Geographical structuring of genetic diversity across the whole distribution range of *Narcissus longispathus*, a habitat-specialist, Mediterranean narrow endemic. *Annals of Botany* **102**: 183-194.
- c137. Abdala-Roberts, L., V. Parra-Tabla, L. Salinas-Peba, and **C. M. Herrera**. 2009. Noncorrelated effects of seed predation and pollination on the perennial herb *Ruellia nudiflora* remain spatially consistent. *Biological Journal of the Linnean Society* **96**: 800-807.
- c138. Garrido, J. L., P. J. Rey, and **C. M. Herrera**. 2009. Influence of elaiosome on post-dispersal dynamics of an ant-dispersed plant. *Acta Oecologica* **35**: 393-399.
- c139. de Vega, C., M. Arista, P. L. Ortiz, **C. M. Herrera**, and S. Talavera. 2009. The ant-pollination system of *Cytinus hypocistis* (Cytinaceae), a Mediterranean root holoparasite. *Annals of Botany* **103**: 1065-1075.
- c140. **Herrera, C. M.** 2009. Evolución de las relaciones entre plantas y polinizadores: logros y deficiencias de la agenda darwiniana. *Memorias de la Real Academia de Ciencias de Sevilla* **9**: 159-174.
- c141. **Herrera, C. M.**, and P. Bazaga. 2009. Quantifying the genetic component of phenotypic variation in unpedigreed wild plants: tailoring genomic scan for within-population use. *Molecular Ecology* **18**: 2602-2614.
- c142. **Herrera, C. M.**, C. de Vega, A. Canto, and M. I. Pozo. 2009. Yeasts in floral nectar: a quantitative survey. *Annals of Botany* **103**: 1415-1423.
- c143. **Herrera, C. M.** 2009. A comment on García et al. (2005, 2007) and related papers on mating patterns and gene dispersal in *Prunus mahaleb*. *Molecular Ecology* **18**: 4533-4535.
- c144. de Vega, C., **C. M. Herrera**, and S. D. Johnson. 2009. Yeasts in floral nectar of some South African plants: quantification and associations with pollinator type. *South African Journal of Botany* **75**: 798-806.
- c145. Pozo, M. I., C. de Vega, A. Canto, and **C. M. Herrera**. 2009. Presence of yeasts in floral nectar is consistent with the hypothesis of microbial-mediated signaling in plant-pollinator interactions. *Plant Signaling and Behavior* **4**: 1102-1104.
- c146. Ortegón-Campos, I., V. Parra-Tabla, L. Abdala-Roberts, and **C. M. Herrera**. 2009. Local adaptation in *Ruellia nudiflora* (Acanthaceae): complex scenarios revealed when two herbivore guilds are considered. *Journal of Evolutionary Biology* **22**: 2288-2297.
- c147. Bastida, J. M., J. M. Alcántara, P. J. Rey, P. Vargas, and **C. M. Herrera**. 2010. Extended phylogeny of *Aquilegia*: biogeographical and ecological patterns of two simultaneous, but contrasting radiations. *Plant Systematics and Evolution* **284**: 171-185.
- c148. **Herrera, C. M.** 2010. Marcescent corollas as functional structures: effects on the fecundity of two insect-pollinated plants. *Annals of Botany* **106**: 659-662.
- c149. **Herrera, C. M.**, A. Canto, M. I. Pozo, and P. Bazaga. 2010. Inhospitable sweetness: nectar filtering of pollinator-borne inocula leads to impoverished, phylogenetically clustered yeast communities. *Proceedings of the Royal Society B* **277**: 747-754.
- c150. **Herrera, C. M.**, and R. Jovani. 2010. Log-normal distribution of individual lifetime fecundity: insights from a 23-yr study. *Ecology* **91**: 422-430.
- c151. **Herrera, C. M.**, and M. I. Pozo. 2010. Nectar yeasts warm the flowers of a winter-blooming plant. *Proceedings of the Royal Society B* **277**: 1827-1834.
- c152. **Herrera, C. M.**, and P. Bazaga. 2010. Epigenetic differentiation and relationship to adaptive genetic divergence in discrete populations of the violet *Viola cazorlensis*. *New Phytologist* **187**: 867-876.
- c153. Parra-Tabla, V., and **C. M. Herrera**. 2010. Spatially inconsistent direct and indirect effects of herbivory on floral traits and pollination success in a tropical shrub. *Oikos* **119**: 1344-1354.

- c154. Alonso, C., and **C. M. Herrera**. 2011. Back-and-forth hermaphroditism: phylogenetic context of reproductive system evolution in subdioecious *Daphne laureola*. *Evolution* **65**: 1680-1692.
- c155. Canto, A., **C. M. Herrera**, I. M. García, R. Pérez, and M. Vaz. 2011. Intraplant variation in nectar traits in *Helleborus foetidus* (Ranunculaceae) as related to floral phase, environmental conditions and pollinator exposure. *Flora* **206**: 668-675.
- c156. Castilla, A. R., C. Alonso, and **C. M. Herrera**. 2011. Exploring local borders of distribution in the shrub *Daphne laureola*: individual and populations traits. *Acta Oecologica* **37**: 269-276.
- c157. **Herrera, C. M.** 2011. Complex implications around a simple trait: ecological context determines the fecundity effects of corolla marcescence. *American Journal of Botany* **98**: 812-818.
- c158. **Herrera, C. M.**, and P. Bazaga. 2011. Untangling individual variation in natural populations: ecological, genetic and epigenetic correlates of long-term inequality in herbivory. *Molecular Ecology* **20**: 1675-1688.
- c159. **Herrera, C. M.**, M. I. Pozo, and P. Bazaga. 2011. Genetic diversity, clonality, and support for the diversifying selection hypothesis, in natural populations of a flower-living yeast. *Molecular Ecology* **20**: 4395-4407.
- c160. Pozo, M. I., **C. M. Herrera**, and P. Bazaga. 2011. Species richness of yeast communities in floral nectar of southern Spanish plants. *Microbial Ecology* **61**: 82-91.
- c161. Alonso, C., **C. M. Herrera**, and T.-L. Ashman. 2012. A piece of the puzzle: a method for comparing pollination quality and quantity across multiple species and reproductive events. *New Phytologist* **193**: 532-542.
- c162. Álvarez-Pérez, S., **C. M. Herrera**, and C. de Vega. 2012. Zooming-in on floral nectar: a first exploration of nectar-associated bacteria in wild plant communities. *FEMS Microbiology Ecology* **80**: 591-602.
- c163. Canto, A., and **C. M. Herrera**. 2012. Micro-organisms behind the pollination scenes: microbial imprint on floral nectar sugar variation in a tropical plant community. *Annals of Botany* **110**: 1173-1183.
- c164. Castilla, A. R., C. Alonso, and **C. M. Herrera**. 2012. Genetic structure of the shrub *Daphne laureola* across the Baetic Ranges, a Mediterranean glacial refugium and biodiversity hotspot. *Plant Biology* **14**: 515-524.
- c165. Castilla, A. R., T. Wiegand, C. Alonso, and **C. M. Herrera**. 2012. Disturbance-dependent spatial distribution of sexes in a gynodioecious understory shrub. *Basic and Applied Ecology* **13**: 405-413.
- c166. de Vega, C., and **C. M. Herrera**. 2012. Relationships among nectar-dwelling yeasts, flowers and ants: patterns and incidence on nectar traits. *Oikos* **121**: 1878-1888.
- c167. de Vega, C., B. Guzmán, M. A. Lachance, S. L. Steenhuisen, S. D. Johnson, and **C. M. Herrera**. 2012. *Metschnikowia proteae* sp. nov., a nectarivorous insect-associated yeast species from Africa. *International Journal of Systematic and Evolutionary Microbiology* **62**: 2538-2545.
- c168. Garrido, J. L., P. J. Rey, **C. M. Herrera**, and J. M. Ramírez. 2012. Negative evidence of local adaptation to the establishment conditions in a perennial herb. *Plant Ecology* **213**: 1555-1569.
- c169. **Herrera, C. M.**, M. I. Pozo, and P. Bazaga. 2012. Jack of all nectars, master of most: DNA methylation and the epigenetic basis of niche width in a flower-living yeast. *Molecular Ecology* **21**: 2602-2626.
- c170. Medrano, M., R. Requerey, J. D. Karron, and **C. M. Herrera**. 2012. Herkogamy and mate diversity in the wild daffodil *Narcissus longispathus*: beyond the selfing-outcrossing paradigm in the evolution of mixed mating. *Plant Biology* **14**: 801-810.

- c171. Ortegón-Campos, I., L. Abdala-Roberts, V. Parra-Tabla, J. C. Cervera, D. Marrufo-Zapata, and **C. M. Herrera**. 2012. Influence of multiple factors on plant local adaptation: soil type and folivore effects in *Ruellia nudiflora* (Acanthaceae). *Evolutionary Ecology* **26**: 545-558.
- c172. Pozo, M. I., M. A. Lachance, and **C. M. Herrera**. 2012. Nectar yeasts of two southern Spanish plants: the roles of immigration and physiological traits in community assembly. *FEMS Microbiology Ecology* **80**: 281-293.
- c173. **Herrera, C. M.**, and P. Bazaga. 2013. Epigenetic correlates of plant phenotypic plasticity: DNA methylation differs between prickly and nonprickly leaves in heterophyllous *Ilex aquifolium* (Aquifoliaceae) trees. *Botanical Journal of the Linnean Society* **171**: 441-452
- c174. Álvarez-Pérez, S., and **C. M. Herrera**. 2013. Composition, richness and non-random assembly of culturable bacterial-microfungal communities in floral nectar of Mediterranean plants. *FEMS Microbiology Ecology* **83**: 685-699.
- c175. **Herrera, C. M.**, M. I. Pozo, and M. Medrano. 2013. Yeasts in nectar of an early-blooming herb: sought by bumble bees, detrimental to plant fecundity. *Ecology* **94**: 273-279.
- c176. de Vega, C., and C. M. Herrera. 2013. Microorganisms transported by ants induce changes in floral nectar composition of an ant-pollinated plant. *American Journal of Botany* **100**: 792-800.
- c177. Álvarez-Pérez, S., B. Lievens, H. Jacquemyn, and **C. M. Herrera**. 2013. *Acinetobacter nectaris* sp. nov. and *Acinetobacter boissieri* sp. nov., isolated from floral nectar of wild Mediterranean insect-pollinated plants. *International Journal of Systematic and Evolutionary Microbiology* : 1532-1539.
- c178. Castilla, A. R., C. Alonso, and **C. M. Herrera**. 2013. Herbivory at marginal populations: consequences for maternal fitness and vegetative differentiation. *Acta Oecologica* **49**: 32-38.
- c179. Seino, M. M., C. de Vega, P. Bazaga, M. Medrano, and **C. M. Herrera**, in *Molecular Ecology Resources Primer Development Consortium* et al. 2013. Development and characterization of microsatellite loci for the perennial herb *Helleborus foetidus* (Ranunculaceae). *Molecular Ecology Resources* **13**: 341-343.
- c180. Guzmán, B., M. A. Lachance, and **C. M. Herrera**. 2013. Phylogenetic analysis of the angiosperm-floricolous insect-yeast association: have yeast and angiosperm lineages co-diversified? *Molecular Phylogenetics and Evolution* **68**: 161-175.
- c181. **Herrera, C. M.**, M. Medrano, and P. Bazaga. 2013. Epigenetic differentiation persists after male gametogenesis in natural populations of the perennial herb *Helleborus foetidus* (Ranunculaceae). *PLOS ONE* **8**: e70730.
- c182. Álvarez-Pérez, S., C. de Vega, and **C. M. Herrera**. 2013. Multilocus sequence analysis of nectar pseudomonads reveals high genetic diversity and contrasting recombination patterns. *PLOS ONE* **8**: e75797.
- c183. Seino, M. M., C. de Vega, P. Bazaga, M. I. Pozo, and **C. M. Herrera**, in *Molecular Ecology Resources Primer Development Consortium* et al. 2013. Development and characterization of microsatellite loci for the nectar-living yeast *Metschnikowia reukaufii*. *Molecular Ecology Resources* **13**: 760-762.
- c184. Parejo-Farnés, C., R. G. Albaladejo, **C. M. Herrera**, and A. Aparicio, in *Molecular Ecology Resources Primer Development Consortium* et al. 2013. Isolation and characterization of microsatellite markers for *Helianthemum cinereum* subsp. *rotundifolium* (Cistaceae) using next-generation sequencing. *Molecular Ecology Resources* **13**: 966-968.
- c185. de Vega, C., **C. M. Herrera**, and S. Dötterl. 2014. Floral volatiles play a key role in specialized ant pollination. *Perspectives in Plant Ecology, Evolution and Systematics* **16**: 32-42.
- c186. **Herrera, C. M.** 2014. Population growth of the floricolous yeast *Metschnikowia reukaufii*: effects of nectar host, yeast genotype and host x genotype interaction. *FEMS Microbiology Ecology* **88**, 250-257.

- c187. **Herrera, C. M.**, M. Medrano, and P. Bazaga. 2014. Variation in DNA methylation transmissibility, genetic heterogeneity and fecundity-related traits in natural populations of the perennial herb *Helleborus foetidus*. *Molecular Ecology* **23**, 1085-1095
- c188. **Herrera, C. M.**, M. I. Pozo, and P. Bazaga. 2014. Nonrandom genotype distribution among floral hosts contributes to local and regional genetic diversity in the nectar living yeast *Metschnikowia reukaufii*. *FEMS Microbiology Ecology* **87**, 568-575.
- c189. Medrano, M., E. López-Perea, and **C. M. Herrera**. 2014. Population genetics methods applied to a species delimitation problem: endemic trumpet daffodils (*Narcissus* section *Pseudonarcissi*) from southern Iberian Peninsula. *International Journal of Plant Science* **175**, 501-517.
- c190. Medrano, M., **C. M. Herrera**, and P. Bazaga. 2014. Epigenetic variation predicts regional and local intraspecific functional diversity in a perennial herb. *Molecular Ecology* **23**, 4926-4938.
- c191. de Vega, C., B. Guzmán, S. L. Steenhuisen, S. D. Johnson, **C. M. Herrera**, and M. A. Lachance. 2014. *Metschnikowia drakensbergensis* sp. nov. and *Metschnikowia caudata* sp. nov., two endemic yeasts associated with *Protea* flowers in South Africa. *International Journal of Systematic and Evolutionary Microbiology* **64**, 3724-3732.
- c192. Alonso, C., R. Pérez, P. Bazaga, M. Medrano, and **C. M. Herrera**. 2014. Individual variation in size and fecundity is correlated with differences in global DNA cytosine methylation in the perennial herb *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany* **101**, 1309-1313.
- c193. Pozo, M. I., **C. M. Herrera**, and C. Alonso. 2014. Spatial and temporal distribution patterns of nectar-inhabiting yeasts: how different floral microenvironments arise in winter-blooming *Helleborus foetidus*. *Fungal Ecology* **11**, 173-180.
- c194. Lenaerts, M., S. Álvarez-Pérez, C. de Vega, A. van Assche, S. Johnson, K. Willems, **C. M. Herrera**, H. Jacquemyn, and B. Lievens. 2014. *Rosenbergiella australoborealis* sp. nov., *Rosenbergiella collisarenosi* sp. nov. and *Rosenbergiella epipactidis* sp. nov., three novel bacterial species isolated from floral nectar. *Systematic and Applied Microbiology* **37**, 402-411.
- c195. Seino, M. M., C. de Vega, P. Bazaga, H. Jacquemyn, and **C. M. Herrera**. 2014. Development and characterization of microsatellite loci for the primrose *Primula vulgaris* and successful cross-amplification in the congeneric *P. elatior* and *P. veris*. *Conservation Genetics Resources* **6**, 653-655.
- c196. Alonso, C., R. Pérez, P. Bazaga, and **C. M. Herrera**. 2015. Global DNA cytosine methylation as an evolving trait: phylogenetic signal and correlated evolution with genome size in Angiosperms. *Frontiers in Genetics*. [doi:10.3389/fgene.2015.00004](https://doi.org/10.3389/fgene.2015.00004)
- c197. Castilla, A. C., C. Alonso, and **C. M. Herrera**. 2015. Sex-specific phenotypic selection and geographic variation in gender divergence in a gynodioecious shrub. *Plant Biology* **17**, 186-193.
- c198. Canto, A., **C. M. Herrera**, I. M. García, M. García, and P. Bazaga. 2015. Comparative effects of two species of floricolous *Metschnikowia* yeasts on nectar. *Anales del Jardín Botánico de Madrid* **72**, e019.
- c199. **Herrera, C. M.**, M. Medrano, and P. Bazaga. 2015. Continuous within-plant variation as a source of intraspecific functional diversity: patterns, magnitude, and genetic correlates of leaf variability in *Helleborus foetidus* (Ranunculaceae). *American Journal of Botany* **102**, 225-232.
- c200. Pozo, M. I., **C. M. Herrera**, W. van den Ende, K. Verstrepen, B. Lievens, and H. Jacquemyn. 2015. The impact of nectar chemical features on phenotypic variation in two related nectar yeasts. *FEMS Microbiology Ecology* **91**. [doi:10.1093/femsec/fiv055](https://doi.org/10.1093/femsec/fiv055)
- c201. Vargas-Mendoza C. F., I. Ortegón-Campos, D. Marrufo, **C. M. Herrera**, and V. Parra-Tabla. 2015. Genetic diversity, outcrossing rate and demographic history along a climatic gradient in

- the ruderal plant *Ruellia nudiflora* (Acanthaceae). *Revista Mexicana de Biodiversidad* **86**, 508–520.
- c202. **Herrera, C. M.**, and P. Bazaga. 2016. Genetic and epigenetic divergence between disturbed and undisturbed subpopulations of a Mediterranean shrub: a 20-year field experiment. *Ecology and Evolution* **6**, 3832–3847.
- c203. Pozo, M. I., **C. M. Herrera**, M. A. Lachance, K. Verstrepen, B. Lievens, and H. Jacquemyn. 2016. Species coexistence in simple microbial communities: unravelling the phenotypic landscape of co-occurring *Metschnikowia* species in floral nectar. *Environmental Microbiology* **18**, 1850–1862.
- c204. Alonso, C., R. Pérez, P. Bazaga, M. Medrano, and **C. M. Herrera**. 2016. MSAP markers and global cytosine methylation in plants: a literature survey and comparative analysis for a wild growing species. *Molecular Ecology Resources* **16**, 80–90.
- c205. Álvarez-Pérez, S., C. de Vega, M. I. Pozo, M. Lenaerts, A. Van Assche, **C. M. Herrera**, H. Jacquemyn, and B. Lievens. 2016. Nectar yeasts of the *Metschnikowia* clade are highly susceptible to azole antifungals widely used in medicine and agriculture. *FEMS Yeast Research* **16**, [doi:10.1093/femsyr/fov115](https://doi.org/10.1093/femsyr/fov115)
- c206. **Herrera, C. M.**, M. Medrano, and P. Bazaga. 2016. Comparative spatial genetics and epigenetics of plant populations: heuristic value and a proof of concept. *Molecular Ecology* **25**, 1653–1664.
- c207. Castilla, A., C. Alonso, and **C. M. Herrera**. 2016. To be or not to be better pollinated: differences between sex morphs in marginal gynodioecious populations. *American Journal of Botany* **103**, 388–395.
- c208. **Herrera, C. M.** 2017. The ecology of subindividual variability in plants: patterns, processes and prospects. *Web Ecology* **17**, 51–64.
- c209. Alonso, C., M. Medrano, R. Pérez, P. Bazaga, and **C. M. Herrera**. 2017. Tissue-specific response to experimental demethylation at seed germination in the non-model herb *Erodium cicutarium*. *Epigenomes* **1**, 16. [doi:10.3390/epigenomes1030016](https://doi.org/10.3390/epigenomes1030016)
- c210. de Vega, C., R. Albaladejo, B. Guzmán, S. Steenhuisen, S. D. Johnson, **C. M. Herrera**, and M. A. Lachance. 2017. Flowers as a reservoir of yeast diversity: description of *Wickerhamiella nectarea* f.a. sp. nov., and *Wickerhamiella natalensis* f.a. sp. nov. from South African flowers and pollinators, and transfer of related *Candida* species to the genus *Wickerhamiella* as new combinations. *FEMS Yeast Research* **17**, fox054.
- c211. **Herrera, C. M.** 2017. Scavengers that fit beneath a microscope lens. *Ecology* **98**, 2725–2726.
- c212. **Herrera, C. M.**, M. Medrano, and P. Bazaga. 2017. Epigenetic and genetic spatial structure of the perennial herb *Helleborus foetidus*: isolation by environment, isolation by distance, and functional trait divergence. *American Journal of Botany* **104**, 1195–1204.
- c213. Canto, A., **C. M. Herrera**, and R. Rodriguez. 2017. Nectar-living yeasts of a tropical host plant community: Diversity and effects on community-wide floral nectar traits. *PeerJ* **5**, e3517.
- c214. Garrido, J. L., J. M. Alcántara, P. J. Rey, M. Medrano, J. Guitián, M. C. Castellanos, J. M. Bastida, R. Jaime, and **C. M. Herrera**. 2017. Geographic genetic structure of Iberian columbines (Gen. *Aquilegia*). *Plant Systematics and Evolution* **303**, 1145–1160.
- c215. **Herrera, C. M.**, and M. Medrano. 2017. Pollination consequences of simulated intrafloral microbial warming in an early-blooming herb. *Flora* **232**, 142–149.
- c216. **Herrera, C. M.**, C. Alonso, M. Medrano, R. Pérez, and P. Bazaga. 2018. Transgenerational epigenetics: inheritance of global cytosine methylation and methylation-related epigenetic markers in the shrub *Lavandula latifolia*. *American Journal of Botany* **105**, 741–748.

- c217. Alonso, C., R. Pérez, P. Bazaga, M. Medrano, and **C. M. Herrera**. 2018. Within-plant variation in seed size and inflorescence fecundity is associated with epigenetic mosaicism in the shrub *Lavandula latifolia* (Lamiaceae). *Annals of Botany* **121**, 153–160.
- c218. **Herrera, C. M.** 2019. Complex long-term dynamics of pollinator abundance in undisturbed Mediterranean montane habitats over two decades. *Ecological Monographs* **89**, e01338.
- c219. **Herrera, C. M.**, M. Medrano, R. Pérez, P. Bazaga, and C. Alonso. 2019. Within-plant heterogeneity in fecundity and herbivory induced by localized DNA hypomethylation in the perennial herb *Helleborus foetidus*. *American Journal of Botany* **106**, 798–806.
- c220. Alonso, C., M. Medrano, R. Pérez, A. Canto, V. Parra-Tabla, and **C. M. Herrera**. 2019. Interspecific variation across angiosperms in global DNA methylation: phylogeny, ecology and plant features in tropical and mediterranean communities. *New Phytologist* **224**, 949–960.
- c221. **Herrera, C. M.** 2020. Flower traits, habitat, and phylogeny as predictors of pollinator service: a plant community perspective. *Ecological Monographs* **90**, e01402.
- c222. Medrano, M., C. Alonso, P. Bazaga, E. López, and **C. M. Herrera**. 2020. Comparative genetic and epigenetic diversity in pairs of sympatric, closely-related plants with contrasting distribution ranges in southeastern Iberian mountains. *AoB Plants* **12**, plaa013.
- c223. **Herrera, C. M.** 2020. Gradual replacement of wild bees by honeybees in flowers of the Mediterranean Basin over the last 50 years. *Proceedings of the Royal Society B* **287**, 28720192657.
- c224. Klaps, J., C. de Vega, **C. M. Herrera**, R. R. Junker, B. Lievens, and S. Álvarez-Pérez. 2020. *Candida metrosideri* pro tempore sp. nov. and *Candida ohialehuae* pro tempore sp. nov., two antifungal-resistant yeasts associated with *Metrosideros polymorpha* flowers in Hawaii. *PLoS One* **15**, e0240093.
- c225. Medrano, M., J. Robles, and **C. M. Herrera**. 2020. Rasgos genéticos poblacionales aclaran el estatus taxonómico del narciso de Villafuerte y respaldan su conservación. *Conservación Vegetal* **24**, 15–18.
- c226. **Herrera, C. M.**, and J. C. Otero. 2021. Plant phylogeny as a major predictor of flower visitation by nitidulid beetles, a lineage of ancestral angiosperm pollinators. *Journal of Pollination Ecology* **29**, 179–188.
- c227. de Vega, C., S. Álvarez-Pérez, R. Albaladejo, S. L. Steenhuisen, M. A. Lachance, S. D. Johnson, and **C. M. Herrera**. 2021. The role of plant-pollinator interactions in structuring nectar microbial communities. *Journal of Ecology* **109**, 3379–3395.
- c228. **Herrera, C. M.**, P. Bazaga, R. Pérez, and C. Alonso. 2021. Lifetime genealogical divergence within plants leads to epigenetic mosaicism in the shrub *Lavandula latifolia* (Lamiaceae). *New Phytologist* **231**, 2065–2076.
- c229. **Herrera, C. M.** 2021. Unclusterable, underdispersed arrangement of insect-pollinated plants in pollinator niche space. *Ecology* **102**, e03327.
- c230. Álvarez-Pérez, S., K. Tsuji, M. Donald, A. Van Assche, R. L. Vannette, **C. M. Herrera**, H. Jacquemyn, T. Fukami, and B. Lievens. 2021. Nitrogen assimilation varies among clades of nectar- and insect-associated acinetobacters. *Microbial Ecology* **81**, 990–1003.
- c231. Álvarez-Pérez, S., M. K. Dhami, M. I. Pozo, S. Crauwels, K. J. Verstrepen, **C. M. Herrera**, B. Lievens, and H. Jacquemyn. 2021. Genetic admixture increases phenotypic diversity in the nectar yeast *Metschnikowia reukaufii*. *Fungal Ecology* **49**, 101016.
- c232. de Vega, C., R. G. Albaladejo, S. Álvarez-Pérez, and **C. M. Herrera**. 2022. Contrasting effects of nectar yeasts on the reproduction of mediterranean plant species. *American Journal of Botany* **109**, 393–405.

- c233. **Herrera, C. M.**, M. Medrano, P. Bazaga, and C. Alonso. 2022. Ecological significance of intraplant variation: epigenetic mosaicism in *Lavandula latifolia* plants predicts extant and transgenerational variability of fecundity-related traits. *Journal of Ecology* **110**, 2555-2567.
- c234. **Herrera, C. M.**, A. Núñez, L. O. Aguado, and C. Alonso. 2023. Seasonality of pollinators in Mediterranean montane habitats: cool-blooded bees for early-blooming plants. *Ecological Monographs* **93**, e1570.
- c235. Morales-Poole, J. R., C. de Vega, K. Tsuji, H. Jacquemyn, R. R. Junker, **C. M. Herrera**, C. Michiels, B. Lievens, and S. Álvarez-Pérez. 2023. Sugar concentration, nitrogen availability, and phylogenetic factors determine the ability of *Acinetobacter* spp. and *Rosenbergiella* spp. to grow in floral nectar. *Microbial Ecology* **86**, 377-391.
- c236. **Herrera, C. M.**, A. Núñez, J. Valverde, and C. Alonso. 2023. Body mass decline in a Mediterranean community of solitary bees supports the size shrinking effect of climatic warming. *Ecology* **104**, e4128.
- c237. García-Cárdenas, F. J., **C. M. Herrera**, and P. J. López-González. 2023. Subindividual variability in sea pens (Octocorallia: Pennatulacea). *Scientia Marina* **87**, e063.
- c238. **Herrera, C. M.** 2024. Plant phenotypes as distributions: Johannsen's beans revisited. *American Naturalist* **203**, 219-229.
- c239. Valverde, J., M. Medrano, **C. M. Herrera**, and C. Alonso. 2024. Comparative epigenetic and genetic spatial structure in Mediterranean mountain plants: a multispecies study. *Heredity* **132**, 106–116.
- c240. **Herrera, C. M.** 2024. Refrigerated flowers in the torrid Mediterranean summer. *Ecology* **105**, e4268.
- c241. Pugnaire, F. I., M. Arista, J. S. Carrión, J. A. Devesa, **C. M. Herrera**, G. Nieto Feliner, P. J. Rey, and C. Alonso. 2024. Origen y retos actuales de la diversidad vegetal en las sierras Béticas, un área de diversidad de importancia global. *Ecosistemas*, 2676.
- c242. Valverde, J., M. Medrano, **C. M. Herrera**, and C. Alonso. 2024. Assessing the links between pollinators and the genetic and epigenetic features of plant species with contrasting distribution ranges. *Oikos* **2024**: e10312.
- c243. **Herrera, C. M.** 2024. Thermal biology diversity of bee pollinators: taxonomic, phylogenetic and plant community-level correlates. *Ecological Monographs* **94**: e1625.
- c244. **Herrera, C. M.** 2024. Plant phenotypes as trajectories: 38-yr monitoring reveals that shape of lifetime fecundity schedule is under selection in a Mediterranean shrub. *Ecosistemas* **33**: 2834.
- c245. **Herrera, C. M.** 2025. Flowers that cool themselves: thermal ecology of summer-blooming thistles in hot Mediterranean environments. *Ecological Monographs* **95**: e70007.
- c246. **Herrera, C. M.**, and C. Alonso. 2025. Flowers as fungal extended phenotypes: nectar yeasts obfuscate among-plant differences in nectar sugar concentration. *Biology Letters* **21**: 20250095.
- c247. Saiz-Blanco, J., C. Alonso, **C. M. Herrera**, and J. Pausas. 2025. Phenotypic rebuilding after fire: understanding within-individual variability in a Mediterranean shrub. *Journal of Ecology* **113**: 2921-2934.
- c248. **Herrera, C. M.**, C. Alonso, J. Valverde, A. Núñez, and T. J. Wood. 2025. The genus *Andrena* Fabricius, 1775 (Hymenoptera, Andrenidae) in a Mediterranean biodiversity hotspot: community-wide relationships with plants and description of three new species. *Journal of Hymenoptera Research* **98**: 1039-1066.
- c249. Alonso, C., M. Medrano, and **C. M. Herrera**. 2025. A dynamic epigenetic perspective on above and below-ground phenotypic responses to drought: insights from global DNA methylation in *Erodium cicutarium*. *Plant Biology*. doi:10.1111/plb.70110

- c250. **Herrera, C. M.**, M. Medrano, and C. Alonso (2025). Somatic epigenetic mosaicism within *Pistacia terebinthus* (Anacardiaceae) trees leaves signature in reproductive cells. *bioRxiv* Preprint. doi:10.1101/2025.11.14.688420

Other publications: short contributions and popular science writings

- d1. **Herrera, C. M.**, and J. Hidalgo, J. 1971. Sobre un antiguo ejemplar de *Aquila pomarina* en Andalucía. *Ardeola* **15**: 133-135.
- d2. **Herrera, C. M.** 1971. Nota sobre la observación de un posible *Ficedula parva* en Sevilla. *Ardeola* **15**: 153-154.
- d3. **Herrera, C. M.** 1973. *Neomys anomalus* au sud de l'Espagne: nouvelle donnée pour la répartition de cette espèce. *Mammalia* **37**: 514-515.
- d4. Hiraldo, F., **Herrera, C. M.** and Hidalgo, J. 1973. Sobre *Larus minutus* en Andalucía. *Ardeola* **19**: 97-100.
- d5. **Herrera, C. M.** and Hiraldo, F. 1973. Sobre un híbrido de *Anas crecca* y *Anas penelope*. *Ardeola* **19**: 16-17.
- d6. **Herrera, C. M.** 1973. *Hirundo rupestris* nidificando en edificios. *Ardeola* **19**: 27-28.
- d7. **Herrera, C. M.** 1973. Un par de observaciones invernales sobre *Sylvia hortensis* y *Sylvia communis*. *Ardeola* **19**: 32.
- d8. **Herrera, C. M.** 1974. Nuevos datos sobre la nidificación del Avión Roquero (*Hirundo rupestris*) en construcciones humanas. *Ardeola* **20**: 368-369.
- d9. **Herrera, C. M.** and Hiraldo, F. 1974. Observaciones invernales de Avión Común (*Delichon urbica*) en Andalucía. *Ardeola* **20**: 369-370.
- d10. **Herrera, C. M.** 1974. Una localidad de cría de Mosquitero Silbador (*Phylloscopus sibilatrix*) en el Pirineo. *Ardeola* **20**: 374-375.
- d11. **Herrera, C. M.** and Ramírez, A. 1975. El Vencejo Común nidificando en árboles. *Ardeola* **22**: 146.
- d12. **Herrera, C. M.** and Alcaide, J. L. 1975. Probable nidificación de *Jynx torquilla* en Sierra Morena occidental. *Ardeola* **22**: 148-149.
- d13. Alcaide, J. L. and **Herrera, C. M.** 1976. Nidificación del Zorzal Común *Turdus philomelos* en Sierra Morena. *Ardeola* **23**: 230-231.
- d14. **Herrera, C. M.** 1976. Las Rapaces Nocturnas. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 15.
- d15. **Herrera, C. M.** 1976. Los Aláudidos, cantores del firmamento. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 23-24.
- d16. **Herrera, C. M.** 1976. Golondrinas, aviones y vencejos. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 29-30.
- d17. **Herrera, C. M.** 1976. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 33.
- d18. **Herrera, C. M.** 1976. Los pájaros del carrizal. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 40-41.
- d19. **Herrera, C. M.** 1976. Gaviota Reidora y Pagaza Piconegra. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 53.
- d20. Soriguer, R. C. and **Herrera, C. M.** 1977. Análisis de dos contenidos estomacales de Grulla Común *Grus grus*. *Ardeola* **24**: 217-219.
- d21. **Herrera, C. M.** 1977. Aves de Ribera. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat

- Editores, Barcelona), No. 60.
- d22. **Herrera, C. M.** 1977. Aves de los sotos. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 61.
- d23. **Herrera, C. M.** 1977. Los Picos. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 76.
- d24. **Herrera, C. M.** 1977. Rapaces diurnas. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 81.
- d25. **Herrera, C. M.** 1977. Pájaros de los espacios abiertos. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 84-85.
- d26. **Herrera, C. M.** 1977. Aves granívoras de la taiga. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 87-88.
- d27. **Herrera, C. M.** 1977. Rapaces nocturnas de la taiga. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), No. 92.
- d28. **Herrera, C. M.** 1977. Aves de los riscos y cortados. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 95-96.
- d29. **Herrera, C. M.** 1977. El paraíso de los limícolas. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 106-107.
- d30. **Herrera, C. M.** 1977. Los ánsares. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 108-109.
- d31. **Herrera, C. M.** 1978. Aves de la costa. Enciclopedia Salvat de la Fauna Ibérica y Europea (Salvat Editores, Barcelona), Nos. 114-115.
- d32. **Herrera, C. M.** and Rodríguez, M. 1979. Year-to-year site constancy among three passerine species wintering at a southern Spanish locality. *Ringing and Migration* 2: 160.
- d33. **Herrera, C. M.**, Soriguer, R. C. and Amat, J. A. 1986. Alimentación recíproca entre investigación y gestión en Cazorla: ejemplos y propuestas. *Actas I Congreso Parques Naturales, Sevilla*, págs. 161-165.
- d34. **Herrera, C. M.** 1988. Los herbívoros condicionan la distribución de la violeta de Cazorla. *Quercus* 29: 12-14.
- d35. **Herrera, C. M.** 1988. Sobre las existencias sin lucha. *Quercus* 31: 36-42.
- d36. **Herrera, C. M.** 1988. Aves invernantes en el matorral mediterráneo. *Quercus* 33: 23-28.
- d37. **Herrera, C. M.** 1989. Papel de los carnívoros en el bosque mediterráneo. *Quercus* 37:20-28.
- d38. **Herrera, C. M.** 1989. Sobre el vicio del tamaño y la práctica de la conservación. *Quercus* 35: 43-48.
- d39. **Herrera, C. M.** 1989. Fauna y flora del Parque Natural de Cazorla, Segura y Las Villas: presente y futuro de un patrimonio excepcional. *Anuario del Adelantamiento de Cazorla (Jaén)* 30: 78-86.
- d40. **Herrera, C. M.** 1989. Las portadas de Quercus. *Quercus* 39: 35-38.
- d41. **Herrera, C. M.** 1990. Enseñanzas de un iceberg. *Quercus* 50: 16-21.
- d42. **Herrera, C. M.** 1991. Sierra de Cazorla: problemas de conservación en un espacio natural bien conservado. *Panda* 8: 4-10.
- d43. **Herrera, C. M.** 1991. Consumo de alimento de origen animal por abejorros (Hymenoptera: Apidae). *Boletín Asociación Española Entomología* 14: 41-44.
- d44. **Herrera, C. M.** 1994. Cazorla, Segura y Las Villas. Flora y fauna: un patrimonio biológico excepcional. Pp. 19-35 in J. Gómez Mena (Ed.), *Parques y Parajes Naturales de Jaén*. Diario Jaén, Jaén, Spain.
- d45. **Herrera, C. M.** 1999. Elaboración de planes de conservación de especies amenazadas de la

- flora andaluza: Parque Natural de las Sierras de Cazorla, Segura y Las Villas. Pp. 29-33 in Consejería de Medio Ambiente (Ed.), Investigación y Desarrollo Medioambiental en Andalucía. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla, Spain.
- d46. **Herrera, C. M.** 2003. José Antonio Valverde marcó un antes y un después en las ciencias naturales españolas. *Quercus* **210**: 64-66.
- d47. **Herrera, C. M.** 2004. El monte mediterráneo y los pájaros frugívoros invernantes. Pp. 142-143 in C. M. Herrera (Editor), *El Monte Mediterráneo en Andalucía*. Consejería de Medio Ambiente, Junta de Andalucía, Sevilla.
- d48. **Herrera, C. M.** 2006. No hay otro enigma que el tiempo. *Quercus* **250**: 12-13
- d49. **Herrera, C. M.** 2007. Cada problema complejo tiene siempre una solución sencilla, que generalmente es errónea. *Quercus* **251**: 10-11.
- d50. **Herrera, C. M.** 2007. Cuidado con las palabras. *Quercus* **252**: 6-7.
- d51. **Herrera, C. M.** 2007. Azar, naturaleza y naturalidad. *Quercus* **253**: 6-7.
- d52. **Herrera, C. M.** 2007. Triángulos naturales. *Quercus* **254**: 8-9.
- d53. **Herrera, C. M.** 2007. Contaminación, despilfarro y futuro. *Quercus* **255**: 6-7.
- d54. **Herrera, C. M.** 2007. Los gorriones de Hermon Bumpus. *Quercus* **256**: 6-7.
- d55. **Herrera, C. M.** 2007. Small is beautiful. *Quercus* **257**: 6-7.
- d56. **Herrera, C. M.** 2007. La mayoría de las abejas no son como las ovejas. *Quercus* **258**: 8-10.
- d57. **Herrera, C. M.** 2007. Historia natural, marañas y metáforas. *Quercus* **259**: 10-11.
- d58. **Herrera, C. M.** 2007. Yin y Yang. *Quercus* **260**: 6-7.
- d59. **Herrera, C. M.** 2007. Esquíes, espinas y el futuro de la diversidad. *Quercus* **261**: 6-7.
- d60. **Herrera, C. M.** 2007. Los rasgos de identidad y sus paradojas. *Quercus* **262**: 6-7.
- d61. **Herrera, C. M.** 2008. Las flores del frío. *Quercus* **263**: 6-7.
- d62. **Herrera, C. M.** 2008. Tanto quiere la loca a sus hijos que los mata a cariños. *Quercus* **265**: 6-7.
- d63. **Herrera, C. M.** 2008. La única certeza es la incertidumbre. *Quercus* **267**: 6-7.
- d64. **Herrera, C. M.** 2008. Ladrones florales invisibles (un homenaje a Leeuwenhoek). *Quercus* **269**: 6-7.
- d65. **Herrera, C. M.** 2008. Glosario irónico de eufemismos que empiezan por "re". *Quercus* **271**: 6-7.
- d66. **Herrera, C. M.** 2008. Historias de aparecidos. *Quercus* **273**: 6-7.
- d67. **Herrera, C. M.** 2009. Superabundancia y lucha por la existencia. *Quercus* **275**: 6-7.
- d68. **Herrera, C. M.** 2009. Flores para Darwin. *Quercus* **276**: 12-17.
- d69. **Herrera, C. M.** 2009. El factor humano. *Quercus* **277**: 6-7.
- d70. **Herrera, C. M.** 2009. Inhóspita dulzura. *Quercus* **279**: 6-7.
- d71. **Herrera, C. M.** 2009. ¿Cómo se describe una planta? *Quercus* **281**: 6-7.
- d72. **Herrera, C. M.** 2009. ¿En qué se parecen un árbol y un hormiguero? *Quercus* **283**: 6-7.
- d73. **Herrera, C. M.** 2009. La conjetura de Haldane y la desigualdad de Jensen se encuentran. *Quercus* **285**: 6-7.
- d74. **Herrera, C. M.** 2010. Dilemas y moralidad en la gestión de la naturaleza. *Quercus* **287**: 6-7.
- d75. **Herrera, C. M.** 2010. Aprender a leer. *Quercus* **289**: 6-7.
- d76. **Herrera, C. M.** 2010. Desconfianza positiva hacia la simplicidad. *Quercus* **291**: 6-8.
- d77. **Herrera, C. M.** 2010. Novedades, flores y MacGyver. *Quercus* **293**: 6-7.
- d78. **Herrera, C. M.** 2010. ¿Bosques? Los justos, gracias. *Quercus* **295**: 6-8.
- d79. **Herrera, C. M.** 2010. Fronteras entre lo grande y lo pequeño. *Quercus* **297**: 6-9.

- d80. **Herrera, C. M.** 2011. ¿De dónde salieron todas esas "malas hierbas"? *Quercus* **299**: 6-7.
- d81. **Herrera, C. M.** 2011. A vueltas con los vestigios: recuerdos que se heredan. *Quercus* **301**: 6-8.
- d82. **Herrera, C. M.** 2011. Sesgos biológicos, incertidumbres y oportunidades. *Quercus* **303**: 6-8.
- d83. **Herrera, C. M.** 2011. Introducción biológica a los verbos "ser" y "estar". *Quercus* **305**: 6-8.
- d84. **Herrera, C. M.** 2011. Fracasos clamorosos. *Quercus* **307**: 6-7.
- d85. **Herrera, C. M.** 2011. Un jardín de cascadas que se bifurcan. *Quercus* **307**: 6-7.
- d86. **Herrera, C. M.** 2014. Historia natural y Ecología. Prólogo a *El Detective Ecológico*, A. Martínez Abraín (2014), Ediciones Rodeno, Cullera, Valencia.
- d87. **Herrera, C. M.** 2014. Sobre el color de los cisnes. *Quercus* **343**: 39-41.
- d88. Alonso, C., V. Parra-Tabla, **C. M. Herrera**. 2018. Polinización por insectos en comunidades vegetales hiperdiversas. *Quercus* **385**: 26-34.
- d89. **Herrera, C. M.** 2019. Alegato en la despedida a *El Detective Ecológico*. Prólogo a *Una golondrina no hace primavera*, A. Martínez Abraín (2019), Ediciones Rodeno, Cullera, Valencia.
- d90. **Herrera, C. M.** 2019. Historia natural, estaciones de campo y evolución de la ecología. *Quercus* **400**: 20-27
- d91. **Herrera, C. M.** 2025. La ciencia ecológica y el cambio global contemporáneo. *Quercus* **472**: 30-34.
- d92. **Herrera, C. M.**, and F. P. Molina. 2025. Primeros registros de *Eucera (Eucera) vulpes* Brullé, 1832 para la península ibérica (Hymenoptera, Apidae). *Revista de la Sociedad Gaditana de Historia Natural* **19**: 39-41.