

Curriculum Vitae **Elena Gómez Díaz**

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Address: Génétique et Evolution des Maladies Infectieuses (GEMI)

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Academic qualifications

2002. Biology Degree by the *Universidad de Extremadura*.

2007. Ph.D. thesis "Genetic structure of *Calonectris* shearwaters and their ectoparasites". Supervised by Prof. Dr. J.González-Solís and Prof. Dr. M.A. Peinado. Mark: Apte Cum Laude per unanimitat. Universitat de Barcelona.

Research grants and contracts

1. Undergraduate grant. “Reproductive Biology of Shorebirds”. Supervisor: Dr. J.M.Sanchez Guzman. Ministerio de Educación, Cultura y deportes. 2000-2001. Universidad de Extremadura.
2. PhD grant. Generalitat de Catalunya. 01/01/2003-31/12/2006. Supervisor: Dr. Jacob González-Solís Bou and Dr. Miguel Angel Peinado.
3. Research contract. Institut de Medicina Predictiva i Personalitzada del Càncer, IMPPC. Generalitat de Catalunya. 01/01/2007-31/09/2007.
4. Research contract. Postdoc. GEMI (Génétique et Evolution des Maladies Infectieuses). CNRS (Centre National de la recherche scientifique). 01/10/2007-31/05/2008.
5. Postdoctoral grant. Marie Curie Intra-European Fellowships (IEF) (People), European Commission. 2007. Supervisor: Dr. Karen D. McCoy. GEMI, IRD-CNRS, Montpellier, France. 31/05/2008- .

Scientific Publications

1. Gómez-Díaz E., González-Solís J., Peinado, MA. & Page, RDM. Phylogeography of the *Calonectris* shearwaters using molecular and morphometric data. *Molecular Phylogenetics and Evolution*, 41: 322-332, 2006. Impact factor (SCI): 3.99
2. Gómez-Díaz E. & González-Solís J. Geographic assignment of seabirds to their breeding origin: combining morphology, genetics, stable isotopes and trace elements in Cory’s shearwater. *Ecological Applications*, 17(5): 1484–1498, 2007. Impact factor (SCI): 3.57
3. Bourgeois K., Cure C., Legrand J., Gómez-Díaz E., Vidal E., Aubin T. & Mathevon N. Morphological versus acoustic analysis: what is the most efficient method for sexing yelkouan shearwaters *Puffinus yelkouan*?. *Journal of Ornithology*, 148:261–269, 2007. Impact factor (SCI): 1.73
4. Friesen V.L., Smith A.L., Gómez-Díaz E., Bolton M., González-Solís J., Furness R.W. & Monteiro

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- L.. Sympatric speciation by separation of breeding season in a seabird. *Proceedings of the National Academy of Science*, 20: 18589-18594, 2007. Impact factor (SCI): 9.60
5. Gómez-Díaz E., González-Solís J., Peinado, MA. & Page, RDM. Lack of host- dependent genetic structure in ectoparasites of *Calonectris* shearwaters. *Molecular Ecology*, 16: 5204-5215, 2007. Impact factor (SCI): 5.17
6. Duneau D., Boulinier T., Gómez-Díaz E., Petersen A., Tveraa T., Barrett R. & McCoy, K.D. Prevalence and diversity of Lyme borreliosis bacteria in marine birds. *Infection, Genetic and Evolution*, 8: 352–359, 2008. Impact factor (SCI): 2.79
7. Gómez-Díaz E., Navarro J. & González-Solís J. Ectoparasite community structure in three closely related seabird hosts: a multiscale approach combining ecological and genetic data. *Ecography*, 31: 477-489, 2008. Impact factor (SCI): 3.06
8. Bolton M., Smith A.L., Gómez-Díaz E., Friesen V.L., Medeiros R., Bried, J. & Furness R.W. A new species of storm-petrel from the Azores. *Ibis*, 150: 717–727, 2008. Impact factor (SCI): 1.22
9. Zhengxin S., Gómez-Díaz E., Bailie A., and Friesen V.L.. Isolation and characterization of microsatellite loci for stormpetrels. *Molecular Ecology Resources*, in press. Impact factor (SCI): 1.26

10. Ramos R, González-Solís J, Forero M, Moreno R, Gómez-Díaz E, Ruiz X & Hobson K (2008). The influence of breeding colony and sex on levels of mercury, selenium and lead and stable isotope ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) signatures in summer and winter feathers of *Calonectris* shearwaters. *Oecologia*, in press. Impact factor (SCI): 2.97
11. Gómez-Díaz E, González-Solís J & Peinado, MA (2009). Population structure in a highly pelagic seabird, the Cory's shearwater (*Calonectris diomedea*): an examination of genetics, morphology and ecology. *Marine Ecology Progress Series*, 382: 197–209. Impact factor (SCI): 2.63
12. Gómez-Díaz E (2009). Linking questions to practices in the study of microbial pathogens: sampling bias and typing methods. *Infection, Genetics and Evolution*, in press. Impact factor (SCI): 2.79

Symposium and conference presentations

1. Gómez-Díaz E., González-Solís J. & Peinado, MA. Genetic structure of the Cory's shearwater *Calonectris diomedea* populations by intersimple sequence repeats polymorphisms based multilocus fingerprint. Oral communication. Second International Conference on the Biology and Conservation of Albatrosses and other Petrels. Montevideo, Uruguay. August 2004.
2. Gómez-Díaz E., González-Solís J., Peinado, MA. & Page, RM. Phylogeography of the *Calonectris* shearwaters using molecular and morphometric data. Second International Manx Shearwater Workshop. Belfast, Irlanda del Nord. August 2005.
3. Gómez-Díaz E., González-Solís J., Peinado, MA. & Page, RM. Phylogeography of the *Calonectris* shearwaters using molecular and morphometric data. Oral communication. Fifth Conference of the European Ornithological Union. Strassburg, France. August 2005.
4. Gómez-Díaz E. & González-Solís J. Assigning the origin of migrating seabirds using genetic markers, morphometry, stable isotopes and trace elements: A case of study on Cory's shearwater. Oral communication. Fourth North American Ornithological Conference. Veracruz, Mexico. October

- 2006.
5. Friesen, V.L., Smith A., Gómez-Díaz E., Bolton M., Furness R., González-Solís J. & Monteiro L. Evidence for sympatric speciation in Madeiran storm-petrels. Oral communication. Pacific Seabird Group Meeting. California (USA), 2006.
 6. Gómez- Díaz E. & González-Solís J. Importance of oceanographic barriers to define evolutionary significant units in seabirds. Oral communication. 31st Annual Meeting of the Waterbird Society. Barcelona. November 2007.
 7. Gómez-Díaz E., González-Solís J., Peinado M.A. & Page R.D.M. Patterns of host-dependent genetic structure in ectoparasites of Calonectris shearwaters. Oral communication. Fourth International Albatrosses and Petrels Conference. Cape Town, South Africa. August 2008.
 8. Dietrich M., Gómez-Díaz E., Boulinier T., McCoy D. K. Factors shaping the local distribution and genetic structure of tick-borne pathogens: an example involving the marine cycle of Lyme borreliosis. Poster. 6th Symposium of European Association of Acarologists. Montpellier, France. July 2008. Autores: Gómez-Díaz, E., McCoy, D. K.
 9. Gómez-Díaz E. & McCoy D.K. Inter-vectorial differences in the transmission of Lyme borreliosis: a quantitative PCR test of Borrelia infection intensities in the marine cycle. Oral communication. MEEGID IX. Irvine, California (USA). October 2008.
 10. Gómez- Díaz E., González-Solis J. & McCoy D.K. P Phylogeography and mechanisms of diversification in the seabird ticks *Ornithodoros (A.) capensis* species complex. Poster presentation. European Society of Evolutionary Biology. Turin, Italy. Agost 2009.
 11. Dietrich M., Kempf F., Gómez-Díaz E., González-Solís J., Boulinier T. & McCoy D.K. Host-associated structure as a diversifying mechanism in parasitic organisms; an example involving the seabird tick, *Ixodes uriae*. Poster presentation. European Society of Evolutionary Biology. Turin, Italy. Agost 2009.

Foreign short stays

1. *Locality:* Glasgow *Country:* Scotland *Date:* 15/10/2004 *Duration:* 2 months
Centre: Laboratory of Dr. Roderic Page. Dep. Evolutionary Ecology. Glasgow University.
Project: Development of useful molecular markers for the amplification of hypervariable mitochondrial DNA sequences in the host the Cory's shearwater *Calonectris diomedea* and their ectoparasites.
2. *Locality:* Kingston *Country:* Canada *Date:* 01/02/2006 *Duration:* 3 months
Centre: Lab. Dr. Vicki L. Friesen. Department of Biology. Queen's University
Project: Population genetic structure and phylogeography of the Madeiran storm petrel *Oceanodroma castro* over its entire geographic distribution by microsatellite analyses and DNA sequencing.

Other scientific activities

1. *Referee of scientific publications*

Biological Journal of the Linnean Society (1), Marine Biology (4), Polar biology (1), Heredity (1), Ibis (2), Molecular Ecology (3), Ecology letters (1), Journal of Biogeography (1), Infection, Genetics and Evolution (1).

2. *Participation in the organization of scientific meetings*

Convenor of the symposia "phylogeography and population genetics of seabirds: implications for conservation". 31st annual meeting of the waterbird society. barcelona, november 2007.

3. *Referee of scientific projects*

National Geographic Society Foundation (1).