

CURRICULUM VITAE

Francesc Lopez-Giraldez, PhD

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Contact Information:

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School: Yale School of Medicine

Education:

xxxx - 06/2000 BS, University of Girona, Biology, Girona, CT, Spain
xxxx - 06/2004 MSc, Pompeu Fabra University, Health and Life Sciences, Barcelona, CT, Spain
xxxx - 06/2006 PhD, Autonomous University of Barcelona, Evolutionary Genetics, Barcelona, CT, Spain

Career/Academic Appointments:

01/2007 - 09/2007 Postdoctoral Associate, Ecology and Evolutionary Biology, Yale School of Medicine, New Haven, CT
09/2007 - 08/2009 Postdoctoral Fellow, Ecology and Evolutionary Biology, Yale School of Medicine, New Haven, CT
09/2009 - 01/2012 Postdoctoral Associate, Ecology and Evolutionary Biology, Yale School of Medicine, New Haven, CT
03/2012 - 07/2018 Associate Research Scientist, Genetics, Yale School of Medicine, New Haven, CT
07/2018 - 06/2025 Research Scientist, Genetics, Yale School of Medicine, New Haven, CT

Administrative Positions:

2012 - Present YCGA Associate Director of Bioinformatics, Genetics, Yale Center for Genome Analysis, West Haven, CT

Professional Honors & Recognition:

International/National/Regional

2023 National Cancer Institute Research Specialist Award (R50), National Cancer Institute

Grants/Clinical Trials History:

Current Grants

Agency: National Cancer Institute
I.D.#: R50CA265359
Title: Cancer Bioinformatics: Data analysis and method development for the Yale Cancer Center
P.I.: Francesc Lopez-Giraldez
Role: PI
Percent effort: N/A
Total costs: -
Project period: 09/27/2022 - 07/31/2027

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

International/National

1. "Next-Generation Sequencing and its Applications in Medical Research". H2O.ai, H2O Open Tour: NYC machine learning and data science conference, New York, NY, July 2016. (Oral Presentation)
2. "RNAseq Data Analysis". ADNAT and CSIR-Institutue of microbial technology, Era of Big Data in Genomics, Chandigarh, CH, India, November 2022. (Oral Presentation)

Professional Service:

Advisory Boards

2015 - Present Review Editorial Board, Phylogenetics, Phylogenomics, and Systematics , Frontiers
2015 - Present Reviewing Editor, Phylogenetics, Phylogenomics, and Systematics , Frontiers
2022 - Present Review Editorial Board, Genetics and Genomics, eLife

Bibliography:

Peer-Reviewed Original Research

1. Marmi J, **López-Giráldez J**, Domingo-Roura X. Phylogeny, evolutionary history and taxonomy of the Mustelidae based on sequences of the cytochrome b gene and a complex repetitive flanking region. Zoologica Scripta 2004, 33: 481-499. [DOI: 10.1111/j.0300-3256.2004.00165.x](https://doi.org/10.1111/j.0300-3256.2004.00165.x).
2. **López-Giráldez F**, Gómez-Moliner B, Marmi J, Domingo-Roura X. Genetic distinction of American and European mink (*Mustela vison* and *M. lutreola*) and European polecat (*M. putorius*) hair samples by detection of a species-specific SINE and a RFLP assay. Journal Of Zoology 2005, 265: 405-410. [DOI: 10.1017/s0952836905006497](https://doi.org/10.1017/s0952836905006497).
3. DOMINGO-ROURA X, **LÓPEZ-GIRÁLDEZ F**, SAEKI M, MARMI J. Phylogenetic inference and comparative evolution of a complex microsatellite and its flanking regions in carnivores. Genetics Research 2005, 85: 223-233. [PMID: 16174341](https://pubmed.ncbi.nlm.nih.gov/16174341/), [DOI: 10.1017/s0016672305007512](https://doi.org/10.1017/s0016672305007512).

4. Domingo-Roura X, Marmi J, Ferrando A, **López-Giráldez F**, Macdonald D, Jansman H. Badger hair in shaving brushes comes from protected Eurasian badgers. *Biological Conservation* 2006, 128: 425-430. [DOI: 10.1016/j.biocon.2005.08.013](https://doi.org/10.1016/j.biocon.2005.08.013).
5. MARMÍ J, **LÓPEZ-GIRÁLDEZ F**, MACDONALD DW, CALAFELL F, ZHOLNEROVSKAYA E, DOMINGO-ROURA X. Mitochondrial DNA reveals a strong phylogeographic structure in the badger across Eurasia. *Molecular Ecology* 2006, 15: 1007-1020. [PMID: 16599963](https://pubmed.ncbi.nlm.nih.gov/16599963/), [DOI: 10.1111/j.1365-294x.2006.02747.x](https://doi.org/10.1111/j.1365-294x.2006.02747.x).
6. **López-Giráldez F**, Andrés O, Domingo-Roura X, Bosch M. Analyses of carnivore microsatellites and their intimate association with tRNA-derived SINEs. *BMC Genomics* 2006, 7: 269. [PMID: 17059596](https://pubmed.ncbi.nlm.nih.gov/17059596/), [PMCID: PMC1634856](https://pubmed.ncbi.nlm.nih.gov/PMC1634856/), [DOI: 10.1186/1471-2164-7-269](https://doi.org/10.1186/1471-2164-7-269).
7. **López-Giráldez F**, Marmi J, Domingo-Roura X. High Incidence of Nonslippage Mechanisms Generating Variability and Complexity in Eurasian Badger Microsatellites. *Journal Of Heredity* 2007, 98: 620-628. [PMID: 17728273](https://pubmed.ncbi.nlm.nih.gov/17728273/), [DOI: 10.1093/jhered/esm068](https://doi.org/10.1093/jhered/esm068).
8. Andrés O, Kellermann T, **López-Giráldez F**, Rozas J, Domingo-Roura X, Bosch M. RPS4Y gene family evolution in primates. *BMC Ecology And Evolution* 2008, 8: 142. [PMID: 18477388](https://pubmed.ncbi.nlm.nih.gov/18477388/), [PMCID: PMC2397393](https://pubmed.ncbi.nlm.nih.gov/PMC2397393/), [DOI: 10.1186/1471-2148-8-142](https://doi.org/10.1186/1471-2148-8-142).
9. Townsend JP, **López-Giráldez F**, Friedman R. The Phylogenetic Informativeness of Nucleotide and Amino Acid Sequences for Reconstructing the Vertebrate Tree. *Journal Of Molecular Evolution* 2008, 67: 437-447. [PMID: 18696029](https://pubmed.ncbi.nlm.nih.gov/18696029/), [DOI: 10.1007/s00239-008-9142-0](https://doi.org/10.1007/s00239-008-9142-0).
10. Otto W, Stadler PF, **López-Giraldéz F**, Townsend JP, Lynch VJ, Wagner GP. Measuring Transcription Factor–Binding Site Turnover: A Maximum Likelihood Approach Using Phylogenies. *Genome Biology And Evolution* 2009, 1: 85-98. [PMID: 20333180](https://pubmed.ncbi.nlm.nih.gov/20333180/), [PMCID: PMC2817405](https://pubmed.ncbi.nlm.nih.gov/PMC2817405/), [DOI: 10.1093/gbe/evp010](https://doi.org/10.1093/gbe/evp010).
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13. Townsend JP, **Lopez-Giraldez F**. Optimal Selection of Gene and Ingroup Taxon Sampling for Resolving Phylogenetic Relationships. *Systematic Biology* 2010, 59: 446-457. [PMID: 20547780](https://pubmed.ncbi.nlm.nih.gov/20547780/), [DOI: 10.1093/sysbio/syq025](https://doi.org/10.1093/sysbio/syq025).
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