

PERSONAL DATA

Josefa González

Present position: Basic Life Science Research Associate.

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ACADEMIC BACKGROUND

Ph. D. in Biology. Universitat Autònoma de Barcelona (UAB), Spain. 1997-2002.

M. S. in Genetics. UAB, Spain. 1996-1998.

B. S. in Biology. UAB, Spain. 1991-1996.

RESEARCH EXPERIENCE

Basic Life Science Research Associate. Stanford University, USA. September 2008-Present

Postdoctoral Scholar. Stanford University, USA. March 2008- August 2008

Fulbright/MEC Postdoctoral Scholar. Stanford University, USA. March 2006- February 2008.

Postdoctoral Scholar. Stanford University, USA. September 2005- February 2006

Postdoctoral Scholar. UAB, Spain. April 2002- August 2005.

Visiting Graduate student. University of Cambridge, U.K. March 1999- June 1999.

Graduate Student. FPI/UAB fellowship. UAB, Spain. January 1997- April 2002.

TEACHING EXPERIENCE

Teaching assistant: Genetics and Molecular Genetics. Departament de Genètica i de Microbiologia (DGM), UAB, Spain. 2002/ 2005.

Teaching assistant: Genetics, Environmental Genetics and Molecular Genetics. DGM, UAB, Spain. 2001/ 2002.

Teaching assistant: Molecular Genetics. DGM, UAB, Spain. 1999/ 2001.

PUBLICATIONS

16. Petrov, D.A., Fiston-Lavier, A.-S. Lenkov, K., Lipatov, M., and **González, J.** Genome-wide assessment of the population dynamics of transposable elements in *D. melanogaster*. **Genome Research** (in preparation).

15. **González, J.**, and Petrov, D. A. The adaptive role of transposable elements in the *Drosophila* genome. **Gene** (in press).

14. **González, J.**, Macpherson, J. M., and Petrov D. A. A recent adaptive transposable element insertion near highly conserved developmental loci in *Drosophila melanogaster*. **Molecular Biology and Evolution**, doi: 10.1093/molbev/msp107, 2009.

13. Prazeres da Costa, O., **González, J.***, and Ruiz A* Molecular characterization of the breakpoints of inversion 5g in *D. buzzatii*, *these authors contributed equally. **Chromosoma** 118: 349-360, 2009.
12. Barker, J.S.F., Frydenberg, J., **González, J.**, Davies, H.I, Ruiz, A. Sørensen, J. G., and Loeschcke, V. Bottlenecks, population differentiation and apparent selection at microsatellite loci in Australian *Drosophila buzzatii*. **Heredity** 102:389-401, 2009.
11. **González, J.***, Macpherson, J. M.*, Messer, P.*, and Petrov D. A. Inferring the strength of selection in *Drosophila* under complex demographic models, *these authors contribute equally. **Molecular Biology and Evolution** 26 (3): 513-526, 2009.
10. **González, J.**, Lenkov, K., Lipatov, M., Macpherson, J. M., and Petrov, D. A. High rate of recent transposable element-induced adaptation in *Drosophila melanogaster*. **PLoS Biology** 10 (6): e251 [doi:10.1371/journal.pbio.0060251](https://doi.org/10.1371/journal.pbio.0060251), 2008.
9. Macpherson, J. M., **González, J.**, Witten, D. M., Davis, J. C., Rosenberg, N. A., Hirsh, A. E., and Petrov D. A. Nonadaptive explanations for signatures of partial selective sweeps in *Drosophila*. **Molecular Biology and Evolution** 25 (6): 1025-1042, 2008.
8. **González, J.**, Casals, F. and Ruiz A. Testing chromosomal phylogenies and inversion breakpoint reuse in *Drosophila*. **Genetics** 175 (1): 167-177, 2007.
7. Casals, F., **González, J.**, and Ruiz, A. Abundance and chromosomal distribution of six *Drosophila buzzatii* transposons: *BuT1*, *BuT2*, *BuT3*, *BuT4*, *BuT5* and *BuT6*. **Chromosoma** 115 (5): 403-412, 2006.
6. **González, J.**, Nefedov, M., Bosdet, I., Casals, F., Calvete, O., Delprat, A., Shin, H., Chiu, R., Mathewson, C., Wye, N., Hoskins, R. A., Schein, J. E., de Jong, P., and Ruiz, A. A BAC-based physical map of the *Drosophila buzzatii* genome. **Genome Research** 15 (6): 885-892, 2005.
5. Casals, F., Cáceres, M., Manfrin, M. H., **González, J.**, and Ruiz, A. Molecular characterization and chromosomal distribution of *Galileo*, *Kepler* and *Newton*, three foldback transposable elements of the *Drosophila buzzatii* species complex. **Genetics** 169 (4): 2047-2059, 2005.
4. **González, J.**, Casals, F., and Ruiz, A. Duplicative and conservative transpositions of the *Larval serum protein 1* genes in the genus *Drosophila*. **Genetics** 168 (1): 253-264, 2004.
3. Ranz, J.M., **González, J.**, Casals, F., and Ruiz, A. Low occurrence of gene transposition events during the evolution of the genus *Drosophila*. **Evolution** 57 (6): 1325-1335, 2003.
2. **González, J.**, Ranz, J. M., and Ruiz, A. Chromosomal elements evolve at different rates in the *Drosophila* genome. **Genetics** 161 (3): 1137-1154, 2002.

1. **González, J.**, Betrán, E., Ashburner, M., and Ruiz A. Molecular organization of the *Drosophila melanogaster Adh* chromosomal region in *D. repleta* and *D. buzzatii*, two distantly related species of the *Drosophila* subgenus. **Chromosome Research** 8 (5): 375-385, 2000.

CONGRESSES AND WORKSHOPS

21. **González, J.**, Lenkov, K., Lipatov, M., Macpherson, J. M., and Petrov, D. A. High rate of recent transposable element- induced adaptation in *Drosophila melanogaster*. Oral presentation. The Biology of Genomes meeting, Cold Spring Harbor, USA, 2009

20. **González, J.**, Lenkov, K., Lipatov, M., Macpherson, J. M., and Petrov, D. A. High rate of recent transposable element- induced adaptation in *Drosophila melanogaster*. Oral presentation. 50th Annual *Drosophila* Research Conference. Chicago, USA, 2009

19. **González, J.** High rate of recent transposable element- induced adaptation in *Drosophila melanogaster*. Oral presentation. Genomic Impact of Eukaryotic Transposable Elements. Pacific Grove, California, USA, 2009

18. **González, J.**, Macpherson, J. M., and Petrov, D. A. A recent adaptive transposable element insertion near highly conserved developmental loci in *Drosophila*. Poster. Genomic Impact of Eukaryotic Transposable Elements. Pacific Grove, California, USA 2009.

17. **González, J.**, Lenkov, K., Lipatov, M., Macpherson, J. M., and Petrov, D. A. High rate of recent transposable element-induced adaptation in *Drosophila melanogaster*. Oral presentation. Annual meeting of the Society of Molecular Biology and Evolution. Barcelona, Spain, 2008.

16. **González, J.**, Macpherson M., Lenkov K., and Petrov, D.A. Genomic screening for putatively adaptive transposable element insertions in *Drosophila melanogaster*. Poster. 11th Congress of the European Society for Evolutionary Biology. Uppsala, Sweden, 2007.

15. **González, J.**, Casals F., and Ruiz, A. Testing chromosomal phylogenies and inversion breakpoint reuse in *Drosophila*. Poster. Genomes Evolution and Bioinformatics. Tempe, Arizona, 2006.

14. **González, J.**, Casals F., and Ruiz, A. Chromosome evolution in the *repleta* group of *Drosophila*. Poster. 10th Congress of the European Society for Evolutionary Biology. Cracow, Poland, 2005.

13. Ruiz, A., Negre, B., **González, J.**, Casillas, S., Barbadilla, A., Casals, F., Delprat, A., Calvete, A., Nefedov, A., de Jong P., Bosdet, I., Schein, J. E., and Hoskins, R. A. Caracterización genómica de las reordenaciones del complejo de genes Hox en *Drosophila*. Oral presentation. XV Seminario de Genética de Poblaciones y Evolución. Sigüenza, Spain, 2004.

12. **González, J.**, Nefedov, M., Bosdet, I., Casals, F., Calvete, O., Delprat, A., Hoskins, R.A., Schein, J.E., de Jong, P., and Ruiz, A. A BAC-based physical map of the *Drosophila buzzatii* genome. Poster. Genomes and Evolution 2004. Pennsylvania, USA, 2004.
11. **González, J.**, Casals F., and Ruiz, A. Duplicative and conservative transpositions of the *Larval serum protein 1* genes in the genus *Drosophila*. Poster. IMA/RECOMB satellite workshop on comparative genomics. Minneapolis, USA, 2003.
10. **González, J.**, Casals, F., and Ruiz, A. Análisis molecular de un evento de transposición: el caso de los genes *Lsp1* de *Drosophila*. Poster. Congreso de la Sociedad Española de Genética. Madrid, Spain, 2003.
9. **Casals, F.**, **González, J.**, and Ruiz, A. Distribución cromosómica de los elementos móviles en *D. buzzatii*. Poster. Congreso de la Sociedad Española de Genética. Madrid, Spain, 2003.
8. **Casals, F.**, **González, J.**, and Ruiz, A. Distribución cromosómica de los elementos móviles en *Drosophila buzzatii*. Oral presentation. III Jornada de Biología Evolutiva. Barcelona, Spain, 2003.
7. **González, J.**, Casals, F., and Ruiz, A. Molecular analysis of a transposition event: the case of the *Lsp1* genes of *Drosophila*. Poster. 44th Annual *Drosophila* Research Conference. Chicago, USA, 2003.
6. **Ranz, J. M.**, **González, J.**, Casals F., and Ruiz, A. How malleable is the eukaryotic genome? Poster. Gordon Research Conference on Molecular Evolution. Ventura, USA, 2002.
5. **González, J.**, and Ruiz, A. Chromosomes evolve at different rates in the *Drosophila* genome. Poster. 14th International Chromosome Conference. Würzburg, Germany. Abstract published in: *Chromosome Research* 9 (suppl. 1): 110, 2001.
4. **González, J.**, and Ruiz, A. Evolución comparada de los elementos cromosómicos en el género *Drosophila*. Oral presentation. I Jornada de Biología Evolutiva. Barcelona, Spain, 2001.
3. **Ruiz, A.**, Cáceres, M., Ranz, J. M., **González, J.**, Casals F., and Barbadilla, A. Investigación del origen de las reordenaciones cromosómicas mediante cartografía física comparada y aterrizaje cromosómico. Oral presentation. Seminario de Citogenética. A Coruña, Spain, 1999.
2. **González J.**, and Ruiz, A. Cartografía comparativa del cromosoma X en el grupo *repleta* de *Drosophila*. Poster. II Congreso de la Sociedad Española de Genética. A Coruña, Spain, 1999.

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REFERENCES

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