



Francisco García García

I am a statistician working in the Computational Genomics Institute of the Centro de Investigación Príncipe Felipe (CIPF) in Valencia, Spain. Currently, I am being part of Spanish National Bioinformatics Institute (INB)

Research interests

Next Generation Sequencing and Microarray analysis

Software development for analysis and genomic data integration

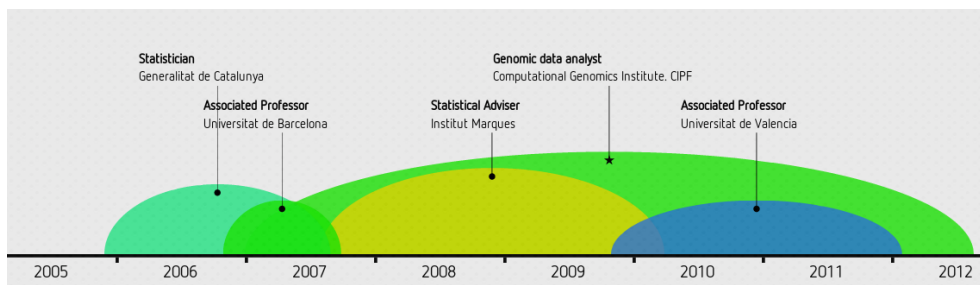
Education

2012 **Master in Biostatistics**, *Universitat de Valencia*, Spain.

2005 **BSc in Statistical Techniques and Sciences**, *Universitat de Valencia*, Spain.

2001 **Diploma in Statistics**, *Universitat de Barcelona*, Spain.

Experience



Languages

English **intermediate level**

French **basic level**

Catalan **fluent level**

Spanish **native**

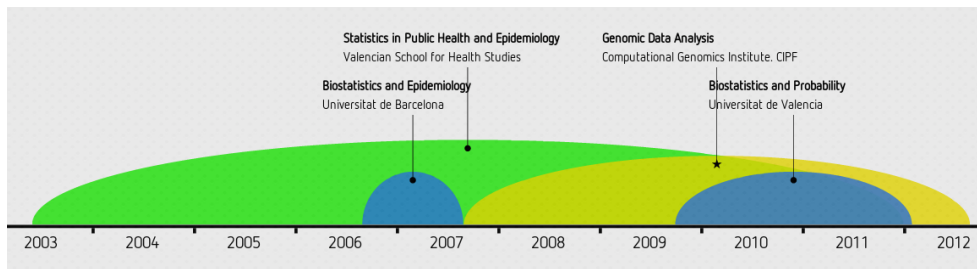
Computer skills

Statistical software: R, SPSS, Stata

Operating Systems: Linux, Windows

Others: Bioinformatics tools, LaTeX

Teaching



Publications

1. *First Development, Characterization and Experimental Validation of Sunflower (*Helianthus annuus* L.) Gene Expression Oligonucleotide Microarray*. Authors: P. Fernandez, M. Soria, D. Blesa, J. Di Rienzo, S. Moschen, L. Peluffo, M. Rivarola, S. González, B. Clavijo, D. Príncipi, G. Dosio, L. Aguirrezaba, **F. García-García**, A. Conesa, H.E. Hopp, J. Dopazo, R.A. Heinz and N. Paniego. PLoS ONE. 2012 (in press)
2. *Expression profiling shows differential molecular pathways and provides potential new diagnostic biomarkers for colorectal serrated adenocarcinoma*. Authors: Conesa-Zamora P, García-Solano J, **García-García F**, Del Carmen Turpin M, Trujillo-Santos J, Torres-Moreno D, Oviedo-Ramírez I, Carbonell-Muñoz R, Muñoz-Delgado E, Rodríguez-Braun E, Conesa A, Pérez-Guillermo. M. Int J Cancer. 2012 Jun 14.
3. *IL-1 β induces migration, cell adhesion and leucocyte chemotaxis in mesenchymal stem cells through NF- κ B signaling pathway*. Authors: Rubén Carrero, Inmaculada Cerrada, Elisa Lledó, Joaquín Dopazo, **Francisco García-García**, M. Paz Rubio, César Trigueros, Akaitz Dorronsoro, Amparo Ruiz-Sauri, Jose Anastasio Montero and Pilar Sepúlveda. Stem Cell Reviews and Reports. 2012 Mar 31.
4. *Early Peroxisome proliferator-activated receptor gamma regulated genes involved in expansion of pancreatic beta cell mass*. Authors: Yurena Vivas, Cristina Martínez-García, Adriana Izquierdo, **Francisco García-García**, Sergio Callejas, Ismael Velasco, Mark Campbell, Manuel Ros, Ana Dopazo, Joaquin Dopazo, Antonio Vidal-Puig and Gema Medina-Gomez. BMC Med Genomics. 2011 Dec 30;4(1):86.
5. *Does singlet oxygen activate cell death in Arabidopsis cell suspension cultures?*. Authors: Jorge Gutiérrez, Sergio González-Pérez, **Francisco García-García**, Óscar Lorenzo and Juan B. Arellano. Plant Signaling & Behavior. Volume 6, Issue 12, December 2011.
6. *Early transcriptional defence responses in Arabidopsis cell suspension culture under high light conditions*. Authors: Sergio González-Pérez, Jorge Gutiérrez, **Francisco García-García**, Daniel Osuna, Joaquín Dopazo, Óscar Lorenzo, José L. Revuelta and Juan B. Arellano. Plant Physiology. July 2011 vol. 156 no. 3 1439-1456.
7. *Babelomics: an integrative platform for the analysis of transcriptomics, proteomics and genomic data with advanced functional profiling*. Authors: Medina, Ignacio; Carbonell, Jose; Pulido, Luis; Madeira, Sara; Götz, Stefan; Conesa, Ana; Tarraga, Joaquín; Pascual-Montano, Alberto; Nogales-Cadenas, Ruben; Santoyo-Lopez, Javier; **García-García, Francisco**; Marba, Martina; Montaner, David; Dopazo, Joaquin. NAR-00461-Web-B-2010.R1.
8. *Functional assessment of time course microarray data*. Authors: María José Nueda, Patricia Sebastián, Sonia Tarazona, **Francisco García-García**, Joaquín Dopazo, Alberto Ferrer and Ana Conesa. BMC Bioinformatics 2009, 10(Suppl 6).

9. *Direct functional assessment of the composite phenotype through multivariate projection strategies*. Authors: Ana Conesa, Rasmus Bro, **Francisco García-García**, José Manuel Prats-Montalbán, Stefan Goetz, Karin Kjeldahl, David Montaner. *Genomics*. Volume 92, Issue 6. December 2008, pages 373-383.

10. *GEPAS, web based tool for microarray data analysis and interpretation*. Authors: Joaquín Tárrega, Ignacio Medina, José Carbonell, Jaime Huerta-Cepas, Pablo Minguez, Eva Alloza, Fátima Al-Shahrour, Stefan Goetz, Pablo Escobar, **Francisco García-García**, Ana Conesa, David Montaner and Joaquín Dopazo. NAR-00221-Web-B-2008.R1.

11. *Prevalence of exposure to occupational risks in pregnant Spanish workers (the INMA Project-Valencia)*. Authors: M. Carmen González-Galarzo, Ana M. García, Marisa Estarlich, **Francisco García-García**, Ana Esplugues, Paz Rodríguez, Marisa Rebagliato, Ferran Ballester. *Gaceta Sanitaria*, 2009; 23(5): 420-426.

12. *Health impact evaluation of particle air pollution in five Spanish cities. European APHEIS Project*. Authors: Eva Alonso Fustel, Antonio Daponte Codina, Inmaculada Aguilera Jiménez, Silvia Toro Cárdenas, Carmen Iñiguez Hernández, Ferran Ballester Díez, **Francisco García-García**, Antoni Plasencia Taradach, Lucía Artazcoz Lazcano y Silvia Medina. *Revista Española de Salud Pública*, volume 79, number 2, 297, March-April 2005.

Last congress contributions

A. Bionformatics and Genomics

Using high-throughput technologies to improve stress tolerance characteristics in sunflower. Authors: **Francisco García-García**, Paula Fernández, Ana Conesa, Norma Paniago, Ruth Heinz, Lucila Peluffo, Veronica Lia, Laura de la Canal, Karina F. Ribichich, Raquel Chan, Julio Di Rienzo and Joaquín Dopazo. XIth Spanish Symposium on Bionformatics. Jan 2012, Barcelona, Spain.

Sarcomere permanent morphometric changes underlie cardiac programming in intrauterine growth restriction. Authors: Torre I, Gonzalez-Tendero A, Garcia-Canadilla P, Crispi F, **García-García F**, Iruretagoyena I, Dopazo J, Amat-Roldan I, Gratacos E. FCVB (Frontiers in cardiovascular Biology)-EBAC. April 2012, London. *Cardiovascular Research* (2012) 93 (Suppl. 1), S25.

Intrauterine growth restriction is associated with a maturation delay of cardiac energetic microdomains. Authors: A. Gonzalez-Tendero, I. Torre, **F. García-García**, J. Dopazo, E. Gratacos. FCVB (Frontiers in cardiovascular Biology)-EBAC. April 2012, London. *Cardiovascular Research* (2012) 93 (Suppl. 1), S109.

Transcriptome variation in human keratinocytes and melanocytes regarding the genomic status of CDKN2A and MC1R genes. Authors: Puig-Butille, JA, Escamez MJ, **García-García F**, Badenas C, Aguilera P, Dopazo J, del Río M, Puig S. European Society for Dermatological Research. Sep 2011, Barcelona, Spain.

Aplicaciones de la genómica funcional en el descubrimiento e identificación de nuevos genes asociados a la senescencia (SAGs) en girasol mediante el uso de una micromatriz de oligonucleótidos. Authors: Fernández, P., Di Rienzo, J.A., Soria, M., Moschen, S., Príncipi, D., Conesa, A., **García-García, F.**, Blesa, D., Dosio G., Aguirrezabal L., Dopazo, J., Heinz, R.A., y Paniago, N. Redbio. 5-10 Nov 2010, México.

Singlet oxygen triggers a programmed cell death response in arabidopsis cell culture under high light conditions. Authors: J.B. Arellano, S. González-Pérez, **F. García-García**, J.L. Revuelta. Meeting of Plant Molecular Biology. 8-10 Jul 2010, Valencia, Spain.

Peripheral blood cells transcriptome to study new biomarkers for myocardial infarction follow up. Authors: V.N. Silbiger, A.D.Luchessi, R.D. Hirata, A. Carracedo, M. Brión, L.G. Lima-Neto, C.P. Pastorelli, J. Dopazo, D. Montaner, **F. García-García**, M.P. Sampaió, M.P. Pereira, E.S. Santos, D. Armaganijan, M.H. Hirata. Meeting of Plant Molecular Biology. 8-10 Jul 2010, Valencia, Spain. AACCC Annual Meeting, Jul 2009, Chicago. Clinical Chemistry. Washington: Clinical Chemistryv.55. p.A71 - A71.

Functional profiling of the peripheral blood cells transcriptome to study cardiovascular biomarkers. Authors: Silbiger, V.N.; Pastorelli, C.P.; Santos, E.S.; Avezum, A.; Piegas, L.; Quitela, I.; Brion, M.; Carracedo, A.; Montaner, D.; **García-García, F.**; Dopazo, J. MGED11 (11th International International Meeting of the Microarray and Gene Expression Data Society). 1 - 4 Sep 2008, Riva del Garda, Italy.

GEPAS: a web-based suite for microarray data analysis. Authors: Joaquín Tárraga, Ignacio Medina, José Carbonell, Jaime Huerta-Cepas, Pablo Minguez, Eva Alloza, Fátima Al-Shahrour, Stefan Goetz, Pablo Escobar, **Francisco Garcia-Garcia**, Ana Conesa, David Montaner, Joaquín Dopazo CAMDA07 (Critical Assessment of Microarray Data Analysis). 13-14 Dec 2007, Valencia, Spain.

B. Teaching methods

Web applications in teaching statistics and analysis of genomic data. Authors: **Francisco García-García**, David Montaner. III Jornadas de Intercambio de Experiencias de Innovación Educativa en Estadística. Valencia. July 2012.

A proposal for the e-learning of mathematics: difference between presential and on-line. Authors: **Francisco García-García**, Araceli Giménez Lorente, José Luis Rodríguez Blancas. Hybrid Days Congress 2011.

C. Public Health and Epidemiology

Clinical implementation of MOSFET for daily in vivo measurements. Authors: S. Karthikeyan, N. Jornet, P. Carrasco, **F. García-García**, Vijay Anand P Reddy, D. Manigandan, T. Eudaldo, M. Ribas. ESTRO27 (European Society for Therapeutic Radiology and Oncology). 14-18 Sep 2008. Göteborg, Sweden. Journal of the European Society for Therapeutic Radiology and Oncology. Volume 88. Supplement 2. Sep 2008.

Differential pattern of mortality occurring outside the region of residence. Catalonia, 1986-2003. Authors: Puigdefàbregas A, **García-García, F.** Gispert R, Ribas G, Doménech J, Molina P. XXV Annual Scientific Meeting of the Spanish Society of Epidemiology. Córdoba, October 2007.

Indicators of child mortality by nationality of the mother, in Catalonia during the period 1999-2005. Authors: Nora Jareño, **Francisco García García**, A. Freitas Ramírez, P. Molina, Anna Puidefàbregas, Rosa Gispert. XII Congreso de la Sociedad Española de Salud Pública y Administración Sanitaria. Gran Canaria, Spain. June 2007.

Mortality road accidents, Catalonia 1999-2004. Authors: Nora Jareño, **Francisco García García**, A. Freitas Ramírez, P. Molina, Anna Puidefàbregas, Rosa Gispert. XXIV Annual Scientific Meeting of the Spanish Society of Epidemiology. Logroño, Spain. 3-6 October 2006.

Differences in mortality from traffic accidents, in the regions of Catalonia during the period 1985-2004. Authors: **Francisco García-García**, Anna Puidefàbregas, Rosa Gispert. XXIV Annual Scientific Meeting of the Spanish Society of Epidemiology. Logroño, Spain. 3-6 October 2006.

Comparison of the basic cause of death assigned by the IRIS European System and the Spanish System. Authors: N Jareño, **F García-García**, A Freitas, A Puigdefàbregas, R Gisbert. XXIV Annual Scientific Meeting of the Spanish Society of Epidemiology. Logroño, Spain. 3-6 October 2006.

Occupational exposures during pregnancy in the general population and immigrant women. Authors: A.M. García, M.L. Estarlich, **F. García-García**, R. Ramón, A. Esplugues, M. Rebagliato, F. Ballester. XXIV Annual Scientific Meeting of the Spanish Society of Epidemiology. Logroño, Spain 3-6 October 2006.

Health Impact Assessment of PM10 air Pollution on Postneonatal Mortality in 31 European Cities. Authors: Cambra Koldo, Alonso Eva, Medina Sylvia, Le Tertre Alain, Cassadou Sylvie, Pascal Laurence, Frank Florian, Díaz de Quijano Estela, Valero Nuria, Knudsen Lisbeth, López-Carrasco Laura, Schumann Michael, Atkinson Richard, **García-García Francisco**, Moshammer Hanns, Toro Silvia, Forsberg Bertil, Hurley Fintan, De Saeger Emile, Krzyzanowsky Michal on behalf of the APHEIS and ENHIS networks. International Conference on Environmental Epidemiology And Exposure, 2-6 September, 2006, Paris.