

## Farmacogenética

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Nuestro grupo estudia los factores genéticos que están implicados en la respuesta al tratamiento farmacológico en distintas enfermedades, especialmente el asma. Para ello, analizamos datos de variantes genéticas de todo el genoma, la composición del microbioma y los patrones de metilación del ADN en individuos que presentan distinta respuesta frente a diferentes fármacos. Empleamos estudios de asociación basados en datos de genotipado masivo, estimas de ascendencia a nivel cromosómico y secuenciación masiva. Nuestro objetivo es identificar marcadores genéticos permitan una mejor predicción de la respuesta al tratamiento, lo que podrá facilitar un mejor pronóstico de las distintas enfermedades y guiar en la identificación de nuevas dianas terapéuticas.

### Proyectos financiados

**2016-2018:** Systems pharmacology approach to difficult-to-treat pediatric asthma. Entidad financiadora: Ministerio de Economía y Competitividad, Instituto de Salud Carlos III (AC15/00015). Investigador principal: María del Mar del Pino Yanes.

**2016-2018:** Systems pharmacology approach to difficult-to-treat pediatric asthma. Entidad financiadora: ERA-Net ERACoSysMed under the European Union framework programme Horizon 2020 (ERACoSysMed99). Investigador principal: Anke-Hilse Maitland van der Zee. Participación: Investigadora colaboradora

**2016-2018:** CIBER de Enfermedades Respiratorias-Consolidación de equipos competitivos de investigación traslacional. Entidad financiadora: Ministerio de Economía y Competitividad, Instituto de Salud Carlos III (CB06/06/1088). Investigador principal: Jesús Villar Hernández. Participación: Investigadora colaboradora

**2015-2017:** Hacia el diagnóstico y tratamiento personalizado del cáncer renal mediante secuenciación masiva de ADN. Entidad financiadora: Fundación CajaCanarias (SALUCAN11). Investigador principal: María del Mar del Pino Yanes & Carlos Flores Infante

**2013-2017:** Pharmacogenomics of Bronchodilator Response in Minority Children with Asthma Entidad financiadora: National Institute of Health, National Heart, Lung, and Blood Institute (R01 HL117004). Investigador principal: Esteban G. Burchard. Participación: Investigadora colaboradora

### Miembros

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### Publicaciones

Publicaciones más recientes:

Hernandez-Pacheco N, Flores C, Oh SS, Burchard EG, Pino-Yanes M. What Ancestry Can Tell Us About the Genetic Origins of Inter-Ethnic Differences in Asthma Expression. *Curr Allergy Asthma Rep* 2016; 16: 53 (<https://www.ncbi.nlm.nih.gov/pubmed/27393700>).

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## Enlaces

Grupo del Centro de Investigación Biomédica en Red de Enfermedades Respiratorias (CIBERES) al que pertenecemos: <http://www.ciberes.org/grupos/grupo-de-investigacion?id=17855>

Listado completo de publicaciones y citas recibidas:

- NCBI: <https://www.ncbi.nlm.nih.gov/sites/myncbi/1p3Rqevdit7Qq/bibliography/46463659/public/?sort=date&direction=ascending>
- Google Scholar: <https://scholar.google.es/citations?user=6QjV3gcAAAAJ&hl=es>
- ResearchGate: [https://www.researchgate.net/profile/Maria\\_Pino-Yanes](https://www.researchgate.net/profile/Maria_Pino-Yanes)

PiCA consortium: <http://pica-consortium.org>