



3 Information Groups by Area



3.5 Cancer and Human Molecular Genetics Area



3.5.10 Human Genetic Variability Group

Publications: 2

Q1: 1



COMPOSITION

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STRATEGIC OBJECTIVE

The final objective of our group is to contribute to pharmacogenetics and precision medicine. We try to identify genetic biomarkers that could be used to predict who patients will have better response, benefit and outcome and lesser toxicity to specific drugs.

Planned Research Projects

- Genetic biomarkers of toxicity in oncological immunotherapy
- Genetic biomarkers of efficacy in oncological immunotherapy
- Worldwide genetic variability in polymorphisms associated with COVID severity

Transfer of Results

- Contributions in national and international congresses
- Publications in JCR journals

Training and education programme

- Students of medicine, nursery, etc, will be able to join to the group as PhD students

Dissemination

- Publications in JCR journals and national and international congresses
- Guides for physicians

Internationalization

The team will call for European programs when specific programs related to our re-

search will be opened. Gender Equality Quality Program: Gender equality is achieved in our group because women and men have the same conditions and opportunities to belong and to work with us.

RESEARCH LINES

Pharmacogenetics and cancer

- Pharmacogenetics in breast cancer
- Pharmacogenetics in colorectal cancer
- Pharmacogenetics and immunotherapy

Genetic variability of human populations

RESEARCH ACTIVITY

Publications

- Romero-Lorca A, de la Calle L, Novillo A, Fernández-Santander A, Blanco MA, Rodelgo T, Andréu-Vázquez C, Gaíbar M. Artistic swimming in girls: anthropometrics, genotype and athletic performance. Rev Int Med Cienc Ac. 2022; 22(85): 215-29. Article. IF: 1.3; Q4
- Gaíbar M, Novillo A, Romero-Lorca A, Malón D, Antón B, Moreno A, Fernández-Santander A. FGFR1 amplification and response to neoadjuvant Anti-HER2 treatment in early HER2-positive breast cancer. Pharmaceutics. 2022; 14(2): 242. Article. IF: 5.4; Q1.

Research projects

Fernández Santander A. Biomarcadores genéticos de toxicidad en inmunoterapia en pacientes con melanoma maligno: análisis de polimorfismos de tipo SNP en genes reguladores de las respuestas inmunitaria e inflamatoria (2022/UEM19). UEM. 2022-2023.

Management centre: UEM

Fernández Santander A. Estudio de polimorfismos de tipo CNV como posibles biomarcadores de eficacia del tratamiento con bevacizumab así como de supervivencia en pacientes con cáncer colorrectal metastásico (2021/UEM08). UEM. 2021-2022.

Management centre: UEM