

Genomics of Complex Diseases

Group leader

Soria Fernández, José Manuel (IR)

Researchers

Aloy Ortiz, Carme (Hospital Dos de Maig)
Camacho Pérez De Madrid, Maria Mercedes (IR)
Dilmé Muñoz, Jaume Félix (FGS)
Escudero Rodríguez, José Roman (FGS)
Ezquerro Condeminas, Pol (IR)
Fite Matamoros, Joan (FGS)
Herrera Escartín, Daniel (UB)
Lloret Cano, Maria Dolores (Hospital Dos de Maig)
Lobato Delgado, Bárbara (IR)
Romero Carro, Josep Maria (FGS)
Sabater Lleal, Maria (IR)
Sánchez García, Laia (FGS)
Soto Carricas, Begoña Dolores (FGS)
Temprano Sagrera, Gerard (IR)

Research technicians

De La Rosa Estadella, Mireia (IR)
García García, Irina (IR)
Martínez Pérez, Ángel (IR)
Uribe Zubia Azpitarte, Ager (IR)
Vega Méndez, Antón (IR)



DESCRIPTION

Our group focuses on the acquisition, management and analysis of multi-omics data as well as its integration with clinical and biological data for the identification of new biomarkers and the generation of risk prediction models to facilitate clinical decision-making in patients with vascular diseases (venous and arterial thrombosis and aneurysms). Additionally, the study of biological processes in healthy individuals exposed to physiological stress conditions (such as those encountered in extreme sports). Our multidisciplinary team (Basic/Clinic) has a molecular biology laboratory, which includes functional analysis and cell cultures, that allows the control of the entire workflow of the process: from the generation of samples and data to the analysis and interpretation of the results.

MAIN LINES OF RESEARCH

- Venous Thrombosis. (Soria Fernández, José Manuel).
- Angiology and Vascular Biology. (Camacho Pérez De Madrid, Maria Mercedes).
- Genomics of Arterial Vascular Disease. (Sabater Lleal, Maria).
- Genomics in Sport Medicine. (Soria Fernández, José Manuel).
- Interdisciplinary Areas of Bioinformatics and multi-omics Data. (Soria Fernández, José Manuel).

SCIENTIFIC CHALLENGES

- Analysis of Omics data (Genomics, transcriptomics, epigenomics) in the field of complex diseases with a translational approach in cooperation with a clinical group.
- Identify new biomarkers (genetic, epigenetic and/or plasmatic) that determine susceptibility to complex diseases.
- Identify new mechanisms involved in the development and progression of complex traits (susceptibility to complex diseases and to healthy status).
- Development of predictive algorithms that integrate the genetic, biological, and clinical information of the patients (Personalised Medicine).
- Development of computational tools based on mathematical models of artificial intelligence for modelling of diseases and physiological processes and patient virtualisation from real data.

ACTIVE & AWARDED GRANTS

- Camacho Pérez, Maria Mercedes. Descifrando los mecanismos moleculares subyacentes a la formación del aneurisma de aorta: el estrés del retículo endoplásmico y el estrés oxidativo mitocondrial como nuevas dianas terapéuticas. PI20/01004. Instituto de Salud Carlos III (ISCIII). Duration: 2021-2024. 145.200,00 €
- Lobato Delgado, Barbara. Contratos predoctorals PFIS 2021. FI21/00197. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2025. 89.900,00 €
- Sabater Lleal, Maria. Contratos Miguel Servet II 2022. CPII22/00007. Instituto de Salud Carlos III (ISCIII). Duration: 2023-2025. 101.250,00 €
- Sabater Lleal, Maria. Nuevo enfoque ómico para predecir el crecimiento y la rotura del aneurisma aórtico abdominal. PID2019-109844RB-I00. Ministerio de Ciencia e Innovación (MICINN). Duration: 2020-2024. 133.100,00 €
- Sabater Lleal, Maria. Investigación de nuevos biomarcadores para predecir el crecimiento del aneurisma de aorta abdominal. PID2023-149864OB-I00. Ministerio de Ciencia e Innovación (MICINN). Duration: 2024-2028. 218.750,00 €
- Sabater Lleal, Maria. Structural and Nucleotide Variation as Genomic Risks for Venous Thrombosis: TOPMED and INVENT Collaboration. R01HL154385. NIH. Duration: 2022-2024. 21.570,85 €
- Sabater Lleal, Maria. IDEA: Improving Diagnostic Efficiency in AAA Patients. MARATO 202334-30. Fundació La Marató de TV3. Duration: 2024-2027. 198.237,50 €
- Soria Fernández, José Manuel. UNITAT DE GENOMICA DE MALALTIES COMPLEXES. 2022 INV-1 00048. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2024. 66.217,84 €
- Soria Fernández, José Manuel. Desarrollo y validación de una nueva tecnología de análisis de datos transcriptómicos basada en IA para optimizar el seguimiento y tratamiento personalizado de pacientes con sobrepeso y obesidad. CPP2021-008423. Ministerio de Ciencia e Innovación (MICINN). Duration: 2022-2025. 265.248,90 €
- Soria Fernández, José Manuel. Genomics of Complex Diseases. 2021 SGR 00830. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2024. 60.000 €.
- Soria Fernández, José Manuel. Identificación de biomarcadores epigenómicos y generación de modelos predictivos asociados al riesgo de trombosis. PI24/00682. Instituto de Salud Carlos III (ISCIII). Duration: 2025-2027. 202.500,00 €
- Temprano Sagrera, Gerard. Nuevo enfoque ómico para predecir el crecimiento y la rotura del aneurisma aórtico abdominal. SLT017/20/000100. Departament de Salut Generalitat de Catalunya. Duration: 2021-2024. 90.579,14 €

DOCTORAL THESES DEFENDED

- Viñuela Benítez, María del Carmen. Aplicabilidad del procesamiento del lenguaje natural y del aprendizaje automático en el desarrollo y validación de modelos predictivos de riesgo de sangrado y recurrencia de enfermedad tromboembólica venosa en pacientes con cáncer activo que reciben terapia anticoagulante. 19/06/2024. Universidad Complutense de Madrid. Supervisors: Martín Jiménez, Miguel José; Muñoz Martín, Andrés Jesús; Soria Fernández, José Manuel. <https://hdl.handle.net/20.500.14352/112032>.

SCIENTIFIC PRODUCTION

- Arqueros C, Gallardo A, Vidal S, Osuna R, Tibau A, Bell OL, Cajal T, Lerma E, Lobato B, Salazar J, Barnadas A. Clinical Relevance of Tumour-Infiltrating Immune Cells in HER2-Negative Breast Cancer Treated with Neoadjuvant Therapy. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2024; 25(5):2627. DOI:10.3390/ijms25052627. PMID:38473874. IF:4,900 (Q1/3D). Document type: Article.
- Balagué L, Esko T, de Heredia ML, Abellán J, Acosta R, Aguado JM, Aguilar C, Aguilera S, Sabbagh AA, Alba J, Albu S, Alcalá K, Alcoba J, Batres SA, Algarin HR, Almadana V, Medeiros KA, Almeida J, Almoguera B, Alonso MR, Álvarez N, Walther R, Álvarez Y, Álvarez F, dos KA, Andreu A, Antonijuan MR, Martínez E, Arana E, Aranda C, Arango C, Araque C, Araujo NK, Arcanjo AC, Arnaiz A, Fernández FA, Arranz MJ, López J, Artiga MJ, Avello Y, Ayuso C, Martín BB, Baptista RC, Baldion AM, Barranco A, Barreda M, Barrera V, Belhassen M, Bernal D, Bernal E, Bezerra JF, Bezerra M, Blanca N, Blancas R, Boix L, Borobia A, Bravo E, Brion M, Brochado O, Brugada R, Bustos M, Cabello A, Cáceres A, Cáceres JJ, Calbo E, Calderón EJ, Camacho S, Ceballos FC, Cañadas Y, Carbonell C, Cardona S, Abad MSC, Segura CC, Carrillo JA, Campos MC, Casasnovas C, Castaño L, Castaño CF, Castela JE, Candalija AC, Castillo MA, Chaves WG, Chiquillo S, Cid MA, Cienfuegos O, Conde R, Cunha GCR, Cordero ML, Corella D, Corrales A, Cortés JL, Corton M, Souza KSC, Silva FTC,

Cruz R, Cuesta L, Tavares N, Carvalho MCC, Dalmau D, Dantas RCS, Darnaude MT, de Andrés R, de Juan C, Troca JJD, de la Horra C, de la Hoz AB, De Martino A, Cruz MS, Neri J, del Campo V, Delgado J, de Bustamante AD, Díaz A, Dietl B, Diz S, Alves MD, Domínguez E, Rosa LS, Luchessi AD, Echave J, Eiros R, Enciso CO, Escudero G, España PP, Sanabria GE, Fariñas MC, Fernández R, Fernández L, Fernández A, Fernández S, Martínez YF, Fernández MJ, Fernández U, Fernández A, Fernández M, Fernández R, Fernández T, Fernández C, Carioca A, Flores P, Fuenmayor L, Fuertes M, Fumadó V, Gadea I, Gagliardi L, Gago M, Gallego N, Galoppo C, García A, García C, García A, García J, García I, García C, García AC, García L, García M, Torrejón MCG, García I, García E, Garza E, Gentile A, Gil B, de Araújo JNG, Gómez M, Gómez J, Carrera LG, García MG, Sacristán AG, González A, Álvarez BG, de Quirós FGB, González R, González J, González M, Gonzalo H, Gorgojo O, Górgolas M, Guaragna F, Chaux JG, Guillén E, Guillén B, Guisado P, Gutiérrez LD, Gutiérrez JF, Heili S, Jacomo RH, Hernández E, Hernández C, Hernández LD, Hernández G, Hernández R, Herráez B, Herranz MT, Herrera M, Herrero MJ, Herrero A, Horcajada JP, Imaz N, Intxausti M, Iñigo A, Iñiguez M, Jara R, Jiménez A, Jiménez I, Jiménez P, Jiménez MA, Jordan I, Laguna R, Laorden D, Lasa M, Lattig MC, Lauriente A, Borja AL, Llanos L, López A, de Heredia ML, López E, López E, López R, López MA, Lorente L, Lorenzo J, Lozano JE, Lozano M, Mahillo I, Mancebo E, Mar C, Calvo CM, Marcos A, Marcos M, Marín A, Mariscal P, Martín L, Martín M, Martín C, Martín JA, Martín MD, Martín V, Martín MM, Martín M, Martínez A, Martínez O, Martínez R, Martínez P, Díaz CM, Martínez O, Martínez I, Martínez MF, Martínez S, Martínez JJ, Martínez A, Martínez A, Martínez V, Marzal L, Mazzeu JF, Medrano FJ, Meijome XM, Mejuto N, Mendes I, Duarte AL, Méndez A, Charris HM, Macías EM, Mercadillo F, Mercado AR, Mínguez P, Molina E, Molina AJ, Montoya JJ, Pinho SMT, Moreira P, Morelos X, Moreno R, Cuerda VM, Moreno A, Moreno J, Fernández AM, García PM, Neira P, Nevado J, Nieto I, Silbiger VN, Núñez R, Obrador A, Ocejó JG, Virginia O, Oliveira SF, Ondo L, Orfao A, Ortega E, Ortega L, Ortiz R, Ortiz F, Oteo JA, Pacheco M, Pacheco FJ,

- Padilla I, Panadero S, Parellada M, Pariente R, Friaza V, Paz E, Peces G, Kus MSP, Perales C, Santos NPC, Guegel GP, Pérez MJ, Pérez A, Pérez P, Pérez C, Pérez G, Pérez F, Pérez P, Pérez LA, Pérez ME, Perucho T, Pichardo LA, Ribeiro AP, Pinsach ML, Pinzón LA, Medeiros JFP, Pita G, Pla F, Planas L, Pompa EN, Porras GL, Pujol A, Quevedo ME, Quijada MA, Quintela I, Ramiro S, Sedes PR, Nunes JFR, Recalde D, Recio E, Resino S, Sousa RR, Rivadeneira CS, Roa D, Pardo MR, Fernandes MR, Rodríguez MA, Rodríguez A, Rodríguez E, Rodríguez MJ, Rodríguez F, Rodríguez M, Rodríguez C, Rodríguez JA, Maya BR, Rodríguez A, Rodríguez GE, Rodríguez PA, Rojo F, Romero A, Morilla R, Rondón F, Rosales A, Rubío C, Olivera MR, Ruiz F, Ruiz E, Ruiz JJ, Ruiz J, Ruiz M, Ryan P, Salamanca HD, Salazar L, Salgueiro GG, Sangil A, Sánchez O, Sánchez PL, López A, Sánchez C, Sánchez MC, Sánchez J, Sánchez J, Sancho C, Sande E, Santos A, Schlüter A, Segovia S, Serra A, Sevil F, Sevilla M, Sicolo MA, Silván C, Moraes VMS, Souza VS, Solé J, Soria JM, Sorlí JV, Silva NS, Souto JC, Sprockel JJ, Suárez JJ, Suárez DA, Taboada X, Tamayo E, Tamayo A, Taracido JC, Vasconcelos RHT, Tellería C, Carratto TMT, Tenorio JA, Teper A, Araujo I, Torres J, Torres L, Torres RP, Troya J, URíoste M, Valencia J, Valido A, Vargas JP, Varón B, Vega T, Velasco S, Vélez V, Víctor V, Vidán J, Silva GV, Vieitez M, Vilches C, Villalobos L, Villar F, Villar J, Villaverde C, Villoslada P, Virseda A, Costa TX, Yáñez Z, Zapatero A, Zarate R, Zazo S, Flores C, Riancho JA, Rojas A, Lapunzina P, Carracedo A, González JR, SCOURGE GRP. Clonal chromosomal mosaicism and loss of chromosome Y in elderly men increase vulnerability for SARS-CoV-2. *Communications Biology*. 2024; 7(1):202. DOI:10.1038/s42003-024-05805-6. PMID:38374351. IF:5,200 (Q1/2D). Document type: Article.
- Camacho M, Vázquez C, Valero C, Holgado A, Terra X, Avilés FX, León X. Transcriptional expression of SLC16A7 as a biomarker of occult lymph node metastases in patients with head and neck squamous cell carcinoma. *EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY*. 2024; 281(12). DOI:10.1007/s00405-024-08882-9. PMID:39215860. IF:1,900 (Q2/3D). Document type: Article.
 - Condeminas PE, Mallol M, Font R, Tremps V, Gutiérrez JA, Rodas G, Lluna AP, Soria JM. Unraveling athletic performance: Transcriptomics and external load monitoring in handball competition. *PLoS One*. 2024; 19(3):e0299556. DOI:10.1371/journal.pone.0299556. PMID:38466679. IF:2,900 (Q1/3D). Document type: Article.
 - de Vries PS, Reventun P, Brown MR, Heath AS, Huffman JE, Le NQ, Bebo A, Brody JA, Temprano G, Raffield LM, Ozel AB, Thibord F, Jain D, Lewis JP, Rodríguez B, Pankratz N, Taylor KD, Polasek O, Chen MH, Yanek LR, Carrasquilla GD, Marioni RE, Kleber ME, Trégouët DA, Yao J, Li R, Joshi PK, Trompet S, Martínez A, Ghanbari M, Howard TE, Reiner AP, Arvanitis M, Ryan KA, Bartz TM, Rudan I, Faraday N, Linneberg A, Ekunwe L, Davies G, Delgado GE, Suchon P, Guo XQ, Rosendaal FR, Klaric L, Noordam R, van F, Curran JE, Wheeler MM, Osburn WO, O'Connell JR, Boerwinkle E, Beswick A, Psaty BM, Kolcic I, Souto JC, Becker LC, Hansen T, Doyle MF, Harris SE, Moissl AP, Deleuze JF, Rich SS, Vlieg AV, Campbell H, Stott DJ, Soria JM, de Maat MPM, Almasy L, Brody LC, Auer PL, Mitchell BD, Ben Y, Fornage M, Hayward C, Mathias RA, Kilpeläinen TO, Lange LA, Cox SR, März W, Morange PE, Rotter JI, Mook DO, Wilson JF, van der Harst P, Jukema JW, Ikram MA, Blangero J, Kooperberg C, Desch KC, Johnson AD, Sabater M, Lowenstein CJ, Smith NL, Morrison AC, Trans Omics Precision Med TOPMed P, INVENT C. A genetic association study of circulating coagulation factor VIII and von Willebrand factor levels. *BLOOD*. 2024; 143(18). DOI:10.1182/blood.2023021452. PMID:38320121. IF:21,000 (Q1/1D). Document type: Article.
 - Diz-de Almeida S, Cruz R, Luchessi AD, Lorenzo-Salazar JM, de Heredia ML, Quintela I, González-Montelongo R, Nogueira Silbiger V, Porras MS, Tenorio Castaño JA, Nevado J, Aguado JM, Aguilar C, Aguilera-Albesa S, Almadana V, Almoguera B, Álvarez N, Andreu-Bernabeu Á, Arana-Arri E, Arango C, Arranz MJ, Artiga MJ, Baptista-Rosas RC, Barreda-Sánchez M, Belhassen-García M, Bezerra JF, Bezerra MAC, Boix-Palop L, Brion M, Brugada R, Bustos M, Calderón EJ, Carbonell C, Castano L, Castelao

- JE, Conde-Vicente R, Cordero-Lorenzana ML, Cortes-Sánchez JL, Corton M, Darnaude MT, De Martino-Rodríguez A, Del Campo-Pérez V, de Bustamante AD, Domínguez-Garrido E, Eirós R, Fariñas MC, Fernández-Nestosa MJ, Fernández-Robelo U, Fernández-Rodríguez A, Fernández-Villa T, Gago-Dominguez M, Gil-Fournier B, Gómez-Arrue J, Álvarez BG, Bernaldo de Quirós FG, González-Neira A, González-Peñas J, Gutiérrez-Bautista JF, Herrero MJ, Herrero-González A, Jiménez-Sousa MA, Lattig MC, Borja AL, López-Rodríguez R, Mancebo E, Martín-López C, Martín V, Martínez-Nieto O, Martínez-López I, Martínez-Resendez MF, Martínez-Pérez A, Mazzeu JF, Macías EM, Minguez P, Cuerda VM, Oliveira SF, Ortega-Paino E, Parellada M, Paz-Artal E, Santos NPC, Pérez-Matute P, Pérez P, Pérez-Tomás ME, Perucho T, Pinsach-Abuin M, Pita G, Pompa-Mera EN, Porras-Hurtado GL, Pujol A, León SR, Resino S, Fernandes MR, Rodríguez-Ruiz E, Rodríguez-Artalejo F, Rodríguez-García JA, Ruiz-Cabello F, Ruiz-Hornillos J, Ryan P, Soria JM, Souto JC, Tamayo E, Tamayo-Velasco A, Taracido-Fernández JC, Teper A, Torres-Tobar L, URíoeste M, Valencia-Ramos J, Yáñez Z, Zarate R, de Rojas I, Ruiz A, Sánchez P, Real LM; SCOURGE Cohort Group; Guillen-Navarro E, Ayuso C, Parra E, Riancho JA, Rojas-Martínez A, Flores C, Lapunzina P, Carracedo Á. Novel risk loci for COVID-19 hospitalization among admixed American populations. *Elife*. 2024; 13:RP93666. DOI:10.7554/eLife.93666. PMID:39361370. IF:6,400 (Q1/1D). Document type: Article.
- Gallego C, Temprano G, Cárcel J, Muiño E, Cullell N, Lledós M, Lluçà L, Martín JM, Sobrino T, Castillo J, Millán M, Muñoz L, López E, Ribó M, Álvarez J, Jiménez J, Roquer J, Tur S, Obach V, Arenillas JF, Segura T, Serrano G, Martí J, Freijo M, Moniche F, Castellanos MDM, Morrison AC, Smith NL, de Vries PS, Fernández I, Sabater M, Dehghan A, Heath AS, Reiner AP, Johnson A, Richmond A, Peters A, van Hylckama Vlieg A, McKnight B, Psaty BM, Hayward C, Ward C, O'Donnell C, Chasman D, Strachan DP, Tregouët DA, Mook D, Gill D, Thibord F, Asselbergs FW, Leebeek FWG, Rosendaal FR, Davies G, Homuth G, Temprano G, Campbell H, Taylor HA, Bressler J, Huffman JE, Rotter JI, Yao J, Wilson JF, Bis JC, Hahn JM, Desch KC, Wiggins KL, Díez L, Raffield LM, Bielak LF, Yanek LR, Kleber ME, Mueller M, Kavousi M, Mangino M, Conomos MP, Liu M, Brown MR, Jhun M-A, Chen M-H, de Maat MPM, Pankratz N, Peyser PA, Elliot P, Wei P, Wild PS, Morange PE, van der Harst P, Yang Q, Marioni R, Li R, Damrauer SM, Cox SR, Trompet S, Felix SB, Völker U, Tang W, Koenig W, Jukema JW, Guo X. A multitrait genetic study of hemostatic factors and hemorrhagic transformation after stroke treatment. *JOURNAL OF THROMBOSIS AND HAEMOSTASIS*. 2024; 22(4). DOI:10.1016/j.jtha.2023.11.027. PMID:38103737. IF:5,500 (Q1/2D). Document type: Article.
 - Gendre B, Martínez A, Kleber ME, Vlieg AV, Boland A, Olaso R, Germain M, Munsch G, Moissl AP, Suchon P, Souto JC, Soria JM, Deleuze JF, März W, Rosendaal FR, Sabater M, Morange PE, Tregouët DA, CHARGE Hemostasis Working GRP. Genome-Wide Search for Nonadditive Allele Effects Identifies *PSKH2* as Involved in the Variability of Factor V Activity. *Journal of the American Heart Association*. 2024; 13(21):e034943. DOI:10.1161/JAHA.124.034943. PMID:39424413. IF:5,000 (Q1/2D). Document type: Article.
 - Hahn J, Temprano-Sagrera G, Hasbani NR, Ligthart S, Dehghan A, Wolberg AS, Smith NL, Sabater-Lleal M, Morrison AC, de Vries PS. Bivariate genome-wide association study of circulating fibrinogen and C-reactive protein levels. *J Thromb Haemost*. 2024; 22(12):3448-3459. DOI:10.1016/j.jtha.2024.08.021. PMID:39299614. IF:5,500 (Q1/2D). Document type: Article.
 - Huffman JE, Nicholas J, Hahn J, Heath AS, Raffield LM, Yanek LR, Brody JA, Thibord F, Almasy L, Bartz TM, Bielak LF, Bowler RP, Carrasquilla GD, Chasman DI, Chen MH, Emmert DB, Ghanbari M, Haessler J, Hottenga JJ, Kleber ME, Le NQ, Lee J, Lewis JP, Li R, Luan J, Malmberg A, Mangino M, Marioni RE, Martínez A, Pankratz N, Polasek O, Richmond A, Rodríguez B, Rotter JI, Steri M, Suchon P, Trompet S, Weiss S, Zare M, Auer P, Cho MH, Christofidou P, Davies G, de Geus E, Deleuze JF, Delgado GE, Ekunwe L, Faraday N, Gögele M, Greinacher

- A, Gao H, Howard T, Joshi PK, Kilpeläinen TO, Lahti J, Linneberg A, Naitza S, Noordam R, Paüls F, Rich SS, Rosendaal FR, Rudan I, Ryan KA, Souto JC, van F, Wang HM, Zhao W, Becker LC, Beswick A, Brown MR, Cade BE, Campbell H, Cho K, Crapo JD, Curran JE, de Maat MPM, Doyle M, Elliott P, Floyd JS, Fuchsberger C, Grarup N, Guo XQ, Harris SE, Hou LF, Kolcic I, Kooperberg C, Menni C, Nauck M, O'Connell JR, Orrú V, Psaty BM, Rääkkönen K, Smith JA, Soria JM, Stott DJ, Vlieg AV, Watkins H, Willemsen G, Wilson PWF, Ben Y, Blangero J, Boomsma D, Cox SR, Dehghan A, Eriksson JG, Fiorillo E, Fornage M, Hansen T, Hayward C, Ikram MA, Jukema JW, Kardina SLR, Lange LA, März W, Mathias RA, Mitchell BD, Mook DO, Morange PE, Pedersen O, Pramstaller PP, Redline S, Reiner A, Ridker PM, Silverman EK, Spector TD, Völker U, Wareham NJ, Wilson JF, Yao J, Trégouët DA, Johnson AD, Wolberg AS, de Vries PS, Sabater M, Morrison AC, Smith NL, Va Million Vet P, Nhlbi Trans T. Whole-genome analysis of plasma fibrinogen reveals population-differentiated genetic regulators with putative liver roles. *BLOOD*. 2024; 144(21). DOI:10.1182/blood.2023022596. PMID:39226462. IF:21,000 (Q1/1D). Document type: Article.
- León X, Valero C, Fuster G, Bragado P, Camacho M, Aviles FX. Predictive capacity for local disease control of neogenin-1 (NEO1) transcriptional expression in patients with head and neck squamous cell carcinoma. *Clinical & Translational Oncology*. 2024; DOI:10.1007/s12094-024-03535-z. PMID:38898351. IF:2,800 (Q2/5D). Document type: Article.
 - Martínez J, Torramade S, Moreno AB, Llobet D, Jerez D, Sánchez P, Carrasco M, Mojal S, Moret C, Camacho M, Soria JM, Palomo M, Martín L, Vidal F, Escolar G, Díaz M, Souto JC. Increased Platelet Adhesiveness in Patients with Venous Thromboembolic Disease. *TH OPEN*. 2024; 08(04). DOI:10.1055/s-0044-1800798. PMID:39619107. Document type: Article.
 - Pérez-Fernández X, Ulsamer A, Cámara-Rosell M, Sbraga F, Boza-Hernández E, Moret-Ruiz E, Plata-Menchaca E, Santiago-Bautista D, Boronat-García P, Gumucio-Sanguino V, Peñafiel-Muñoz J, Camacho-Pérez M, Betbesé-Roig A, Forni L, Campos-Gómez A, Sabater-Riera J; SIRAKIO2 Study Group. Extracorporeal Blood Purification and Acute Kidney Injury in Cardiac Surgery: The SIRAKIO2 Randomized Clinical Trial. *JAMA*. 2024; 332(17):1446-1454. DOI:10.1001/jama.2024.20630. PMID:39382234. IF:63,500 (Q1/1D). Document type: Article.
 - Puertas L, Puig N, Camacho M, Dantas AP, Marín R, Martí J, Jiménez E, Benítez S, Camps P, Jiménez F. Serum from Stroke Patients with High-Grade Carotid Stenosis Promotes Cyclooxygenase-Dependent Endothelial Dysfunction in Non-ischemic Mice Carotid Arteries. *Translational Stroke Research*. 2024; 15(1). DOI:10.1007/s12975-022-01117-1. PMID:36536168. IF:3,800 (Q1/3D). Document type: Article.
 - Temprano G, Peypoch O, Soto B, Dilmé J, Juscafresa LC, Davtian D, Estadella MD, Nieto L, Brown A, Escudero JR, Viñuela A, Camacho M, Sabater M. Differential Expression Analyses on Human Aortic Tissue Reveal Novel Genes and Pathways Associated With Abdominal Aortic Aneurysm Onset and Progression. *Journal of the American Heart Association*. 2024; 13(24):e036082. DOI:10.1161/JAHA.124.036082. PMID:39655704. IF:5,000 (Q1/2D). Document type: Article.