



## 3.3.2 Molecular Microbiology Group

Publications: 66 | Q1: 23

### COMPOSITION

**Jesús Míngorance Cruz.**  
Investigador Titular. FIBHULP

- **Iván Bloise Sánchez.** *Facultativo Especialista en Microbiología y Parasitología Clínica. Hospital Universitario La Paz*
- **Emilio Cendejas Bueno.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Fernando José Corrales Izquierdo.** *Profesor de Investigación CSIC. CSIC*
- **Elias Dahdouh.** *Investigador Postdoctoral Miguel Servet. FIBHULP*
- **Iker Falces Romero.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Silvia García Bujalance.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **María Jesús García García.** *Profesora Emérita. Departamento de Medicina Preventiva y Salud Pública y Microbiología. Facultad de Medicina. Universidad Autónoma de Madrid*
- **Isabel García Pérez.** *Ayudante de Investigación. FIBHULP*
- **Julio García Rodríguez.** *Jefe de Servicio de Microbiología. Hospital Universitario La Paz*
- **Paulino Gómez Puertas.** *Científico Titular CSIC. CBM Severo Ochoa*
- **Rocío González Soltero.** *Catedrática de Genética Molecular. Universidad Europea*
- **David Grandioso Vas.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Almudena Gutiérrez Arroyo.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Fernando Lázaro Perona.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*

- **María Fátima López Fabal.** *Facultativo Especialista en Microbiología y Parasitología Clínica. Hospital Universitario La Paz*
- **María Belén Loeches Yagüe.** *Médico Adjunto. Unidad de Enfermedades Infecciosas. Hospital Universitario La Paz*
- **Carmen Menéndez Gómez.** *Profesor contratado Doctor, Departamento de Medicina Preventiva y Salud Pública y Microbiología. Facultad de Medicina. Universidad Autónoma de Madrid*
- **Dolores Montero Vega.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Alberto Paradela Elizalde.** *Investigador Científico. CSIC*
- **Verónica Pérez Blanco.** *Facultativo Especialista de Área en Medicina Preventiva. Hospital Universitario La Paz*
- **Rafael Carlos Prados Rosales.** *Profesor Titular de Universidad. Universidad Autónoma de Madrid*
- **María Inmaculada Quiles Melero.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Alicia Rico Nieto.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Graciela Rodríguez Sevilla.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Mario David Ruiz Bastián.** *Facultativo Especialista en Microbiología y Parasitología Clínica. Hospital Universitario La Paz*
- **Guillermo Ruiz Carrascoso.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*
- **Carlos Toro Rueda.** *Facultativo Especialista de Área en Microbiología. Hospital Universitario La Paz*

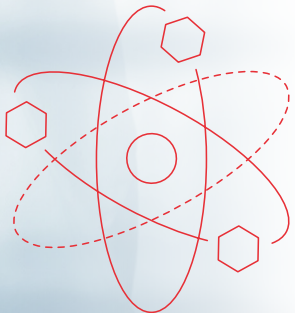
### STRATEGIC OBJETIVES

- The Molecular Microbiology research group originated in the Microbiology Service of Hospital La Paz, and a significant portion of its members are staff physicians from the Service with clinical activity. This shapes the group's strategic approach, which is why the various research lines focus on different aspects of clinical microbiology and infectious pathology.
- A core line, Clinical Microbiology, stems directly from the Service's clinical activity. However, our work in this area goes beyond, delving into the methodological and epidemiological challenges that arise in daily routine.
- In this context, another line focuses on developing molecular methods for the typing and characterization of pathogenic microorganisms. These methods have applications in microbiological diagnosis, epidemiological analysis, and the detection and characterization of antibiotic-resistant bacteria. We have extensive experience in techniques such as PCR, Sanger sequencing, massive sequencing (NGS), bioinformatics analysis, and proteomics.
- Since the emergence of the first carbapenemases between 2008 and 2010, an important line has concentrated on studying the epidemiology, hospital ecology, and evolution of carbapenemase-producing Enterobacteriaceae, especially *Klebsiella pneumoniae*.
- Related to this line and the difficulties in developing new antibiotics, we utilize molecular dynamics methods to search for novel carbapenemase inhibitors.
- Additionally, several group members, who belong to the UAM Faculty of Medicine, have a long research history in the Molecular Biology and Pathogenesis of *Mycobacterium tuberculosis* and other mycobacteria.
- Finally, we are exploring the gut microbiome and its alterations in relation to various pathologies and clinical conditions.

### RESEARCH LINES

- Molecular epidemiology and evolution of pathogens
- Molecular methods for diagnostics of infectious diseases
- Genomics of hospital microbial pathogens
- Design of new metallo-beta-lactamase inhibitors using computational molecular dynamics simulations of protein-ligand interactions.
- Molecular Biology and Pathogenesis of *Mycobacterium tuberculosis*

3 Research areas and groups



**3** Research areas and groups

**RESEARCH ACTIVITY**

**Doctoral Theses**

- **Falces Romero I.** Diagnóstico molecular de bacteriemias y candidemias en pacientes pediátricos críticos: Un nuevo enfoque. [dissertation]. Madrid: UAM: 2024 (19/01/2024). Director: Cendejas Bueno E.
- **Ros Pardo D.** Técnicas de modelado por homología y dinámica molecular en el estudio de la funcionalidad de GSDMB y el complejo de cohesina [dissertation]. Madrid: UAM: 2024(21/02/2024). Director: Gómez-Puertas P.

**Master Theses**

- **González Gómez I.** Análisis mediante secuenciación masiva de Enterobacterias productoras de NDM en el Hospital Universitario de La Paz y pruebas de transferencia horizontal de genes mediante Vesículas de Membrana Externa (OMVs). [dissertation]. Madrid: UAM: 2024 (18/09/2024). Director: Dahdouh E.
- **Shustrova S.** Análisis de la incidencia y factores de riesgo de Enterobacterias Productoras de Carbapenemas en una Unidad de Cuidados Intensivos de adultos de un hospital terciario en España: estudio retrospectivo y medidas de control [dissertation]. Madrid: Escuela Nacional de Sanidad: 2024(25/09/2024). Director: Pérez Blanco V.
- **Blanco Córdoba J.** Interacción entre microbiota intestinal y Alzheimer: Caracterización y desarrollo de un pipeline para su aplicación [dissertation]. Madrid: Universidad Europea de Madrid: 2024 (26/11/2024). Director: González Soltero MR.
- **Castro García AB.** Microbiota y esquizofrenia: reuso de datos públicos según estándares FAIR [dissertation]. Madrid: Universidad Europea de Madrid: 2024 (26/11/2024). Director: González Soltero MR.
- **López Gualdrón OJ.** Evaluación de la Adherencia a los Principios FAIR en Bases de Datos de Proyectos de Secuenciación Metagenómica [dissertation]. Madrid: Universidad Europea de Madrid: 2024 (20/10/2024). Director: González Soltero MR.

**Final Degree Theses**

- **Villaverde L.** Efecto de la nutrición en la microbiota y en el inmunodesarrollo durante los primeros 1000 días de vida [dissertation]. Madrid: UAM: 2024 (17/05/2024). Director: Menéndez Gómez C.
- **Núñez I.** Relación de la microbiota intestinal con la diabetes tipo 2 y sus complicaciones [dissertation]. Madrid: UAM: 2024(17/05/2024). Director: Menéndez Gómez C.

**Publications**

- **Allende JMB, Antón EF, Gómez-Junyent J, Redó LS, Rodríguez-Pardo D, Rubio OM, Sampedro MF, Escudero-Sánchez R, Gutiérrez MG, Portillo ME, Sancho I, Nieto AR, Carrión LG, Viladomiu AS, Ruiz LM, Iglesias FJD.** Impact of antibiotic prophylaxis in second-stage surgery in joint prosthesis infection treated with two-stage exchange. A multicenter case-control study. *Eur J Clin Microbiol.* 2024; 43(7): 1319-28. Article. IF: 3.0; Q2
- **Allende JMB, Gómez-Junyent J, Redó LS, Rodríguez-Pardo D, Rubio OM, Sampedro MF, Escudero-Sánchez R, Gutiérrez MG, Portillo ME, Sancho I, Nieto AR, Carrión LG, Soriano A, Ruiz LM.** Description of reinfection of joint prosthesis after 2-stage replacement (infection of the 2nd stage prosthesis): A multicenter study. *Enferm Infec Microb Cl.* 2024; 42(7): 354-60. Article. IF: 2.5; Q2
- **Arévalo-Romero JA, López-Cantillo G, Moreno-Jiménez S, Marcos-Alcalde I, Ros-Pardo D, Camacho BA, Gomez-Puertas P, Ramírez-Segura CA.** In Silico Design of miniACE2 Decoys with In Vitro Enhanced Neutralization Activity against SARS-CoV-2, Encompassing Omicron Subvariants. *Int J Mol Sci.* 2024; 25(19): 10802. Article. IF: 4.9; Q1
- **Ascunce M, Cocco A, Mozo Y, Baquero-Artigao F, Rodríguez-Molino P, Toro-Rueda C, García-Clemente P, Sánchez-Zapardiel E, López-Granados E, Corral-Sánchez D, Bueno**

- D, Sisinni L, Pérez-Martínez A, Calvo C, del Rosal T.** Severe Impairment of T-cell Immunity and Pulmonary GvHD Are Major Risk Factors for Nontuberculous Mycobacterial Infection After Pediatric Allogeneic Hematopoietic Stem Cell Transplantation. *Pediatr Infect Dis J.* 2024; 43(9): 885-8. Article. IF: 2.2; Q2
- **Auñón A, Salar-Vidal L, Mahillo-Farnández I, Almeida F, Pereira P, Lora-Tamayo J, Ferry T, Souèges S, Dinh A, Escudero R, Fernández-Miranda CM, Rico A, Rossi N, Esteban J.** Prosthetic Joint Infections Caused by Mycobacterium tuberculosis Complex-An ESGIAI-ESGMYC Multicenter, Retrospective Study and Literature Review. *Microorganisms.* 2024; 12(5): 849. Article. IF: 4.2; Q2
- **Aya JV, Vega LC, Muñoz E, Munoz M, López DF, Guzmán MP, Martínez DF, Cruz-Saavedra LB, Castillo AK, Quintero KJ, Soltero RRG, Cala MP, Ramirez JD.** Divergent Gut Microbiota: Archaeal and Bacterial Signatures Unveil Unique Patterns in Colombian Cyclists Compared to Weightlifters and Non-Athletes. *Adv Biol (Weinh).* 2024; 8(6): e2400069. Article. IF: 2.6; Q3
- **Bloise-Sánchez I, Alonso-Acero L.** Considerations on the implementation of the Clinical Microbiology and Parasitology training program in Spanish hospitals: A national survey. *Enferm Infec Microb Cl.* 2024; 42(7): 361-6. Article. IF: 2.5; Q2
- **Buenestado-Serrano S, Martínez-Lirola M, Herranz-Martín M, Esteban J, Broncano-Lavado A, Molero-Salinas A, Sanz-Pérez A, Blázquez J, Ruedas-López A, Toro C, López-Roa P, Domingo D, Zamarrón E, Serrano MJR, Muñoz P, Pérez-Lago L, de Viedma DG.** Microevolution, reinfection and highly complex genomic diversity in patients with sequential isolates of Mycobacterium abscessus. *Nat Commun.* 2024; 15(1): 2717. Article. IF: 15.7; D1
- **Calderon-Parra J, Domínguez F, González-Rico C, de las Revillas FA, Goenaga MA, Alvarez , Munoz P, Alonso D, Rodríguez-**

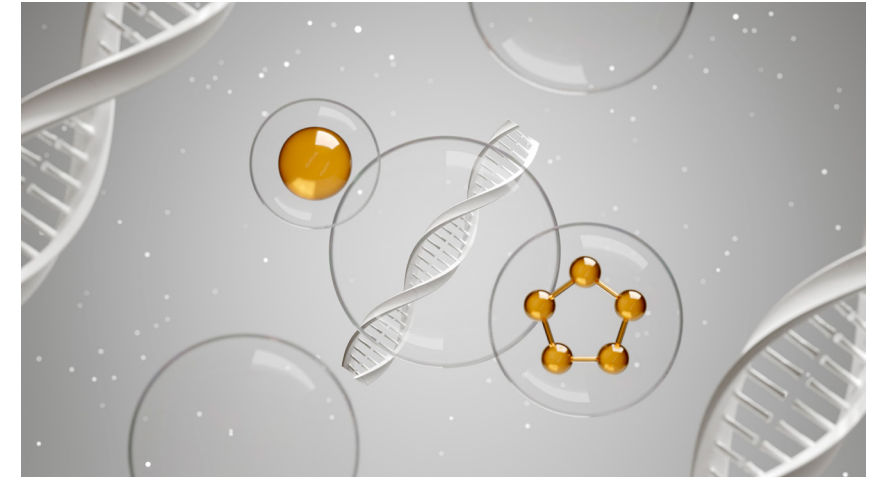
- García R, Miro JM, De Alarcon A, Antorrena I, Goikoetxea-Agirre J, Moral-Escudero E, Ojeda-Burgos G, Ramos-Martínez A, Sánchez FF, de Lomas JMG, Rosas G, Lima JD, Bereciartua E, Vidal MJB, Blanco R, Boado MV, Lazaro MC, Crespo A, Carrion LG, de Lagos MDM, Ugarte GE, Goikoetxea AJ, Hierro MI, Iruretagoyena JR, Zuazabal JI, López-Soria L, Montejo M, Nieto J, Rodrigo D, Rodríguez R, Vitoria Y, Voces R, López MVG, Georgieva RI, Ojeda G, Bailon IR, Morales JR, Rodríguez IA, Galparsoro HA, Boronat EB, Odriozola MJB, Martin CD, Echeverria T, Yarza AE, Fuentes A, Goenaga MA, del Rio MG, Bauza AG, Iribarren JA, Urkola XK, López JIPM, Jimenez AR, Reviejo K, Berbejillo AS, Haza ES, Alda RS, Ruiz IS, Ugartemendia IU, Anza DV, Benito IV, Arrieta MZ, Carrasco R, Climent V, Llamas P, Merino E, Plazas J, Reus S, Alonso A, Bouzas A, Castelo B, Cuenca J, Gutierrez L, Ramos L, Mayo MR, Serrano JM, Regueiro DS, Martínez FJ, Alonso MD, Castro B, MelianTD, Sarabia JF, Rosado DG, González JG, Lacalzada J, de la Pena LL, Ramirez AP, Arrondo PP, Moreno FR, Ciezar AP, Iglesias JMR, Alvarez VA, Costas C, de la Hera J, Suárez JF, Fraile LI, Arguero VL, Menendez JL, Bajo PM, Morales C, Torrico AM, Palomo C, Martínez BP, Esteban R, García RR, Asensio MT, Almela M, Ambrosioni J, Azqueta M, Brunet M, Bodro M, Cartana R, Cuervo G, Falces C, Farnández-Pittol MJ, Fita G, Fuster D, de la Maria CG, García-Pares D, Hernandez-Meneses M, Pérez JL, Marco F, Miro JM, Moreno A, Nicolas D, Ninot S, Quintana E, Pare C, Pereda D, Pericas JM, Pomar JL, Ramirez J, Roque M, Rovira I, Sandoval E, Sitges M, Soy D, Tellez A, Tolosana JM, Vidal B, Vila J, Adan I, Alonso D, Alonso JC, alvarez-Uria A, Bermejo J, Bouza E, Caballero GC, Montero AD, Estevez A, Ribas RF, Gargallo E, Leoni MEG, Mansilla AG, Moraga FJG, Ramallo VG, Hernandez MK, Hualde AM, Machado M, Marin M, Martínez-Selles M,**

**3** Research areas and groups

Melero R, Munoz P, Monzon D, Olmedo M, Pedraz A, Pinilla B, Pinto A, Rincon C, Rodríguez-Abella H, Rodríguez-Creixems M, Sánchez-Pérez E, Segado A, Toledo N, Valerio M, Vazquez P, Moreno EV, de la Villa S, Antorrena I, Loeches B, Moreno M, Ramirez U, Baston VR, Romero M, Rosillo S, Balbin JA, Farnández CA, Castillo CA, de las Revillas FA, Belaustegui MC, Farinas MC, Farinas-alvarez C, Sampedro MF, García I, Rico CG, Gutierrez-Farnández L, Gutierrez-Cuadra M, Diez JG, Pajaron M, Parra JA, Teira R, Zarauza J, Parra JC, Cobo M, Domínguez F, Pavia PG, Cruz AF, Ramos-Martínez A, Romero IS, Centella T, Hermida JM, Moya JL, Martín-Davila P, Navas E, Oliva E, del Río A, Stuart JRR, Ruiz S, Tenorio CH, Sequera S, Delia MA, Araji O, Barquero JM, Jambrina RC, de Cueto M, Acebal JG, Mendez I, Morales I, López-Cortes LE, de Alarcon A, Gutierrez-Carretero E, Lepe JA, López-Haldon J, Luque-Marquez R, Marin G, Ortiz-Carrellan A, Sánchez-Domínguez E, Alonso LJ, Azcarate P, Gutierrez JMA, Blanco JR, Armas EC, García-alvarez L, Oteo JA, Membrilla AB, Iglesias AG, Grillo S, Petracca RL, López-Contreras J, Martínez MAR, Alvarez M, Farnández AL, Martínez A, Prieto A, Regueiro B, Tijeira E, Vega M, Quinonero AA, Minambres AA, Arana JCG, Ortega SGD, Rodríguez MAM, Rodríguez AM, de Zarate ZO, Zapirain JJP, Arroniz ESD, Sánchez DCS, Antonio SP, Alejandro UI, Leal JMA, Vazquez EG, Torres AH, Blazquez A, Valenzuela GD, Alonso A, Aramburu J, Calvo FE, Rodríguez AM, Tarabini-Castellani P, Galvez EH, Bellido CM, Pau JL, Sepulveda MA, Sierra PT, Iqbal-Mirza SZ, Alcolea EC, Yanez IK, Martínez JN, Ballesta AP, Escobar EM, Monje AP, Cabrera VS, García DV, Asenjo MA, Luna CC, Morcillo JN, Seco MCP, Gelabert AV, Guallar CA, Abad NF, Mangas PG, Adell MM, Ruiz MPP, Porres JC, Vidal BA, Espin MJD, Buendia F, Sánchez RJ, Marmol R, Martínez F, Meseguer A, Pérez B, Risco L, Saura Z, Silva V, Villmarin MB,

Blanco MAR, Bordes ERD, Bonet LV, Borrás MV, Munera MCB, Garaizabal EE, Martínez AT, Luque JCS, Badia C, Palop LB, Xercavins M, Bosch SIX, Nebreda EG, Herrera IH, Gallego IM, Pulido I, Santiago HM, Martínez ID, Alamo EP, Sánchez DS, Pérez JB, Blanco EMA, González MC, Peiretti MAC, Esteve AE, Pérez LD, Tejido SD, Roman FG, Robles JAG, Medrano FL, Gude MJL, Miguel MAO, Pilkington P, Ostalaza YR, Morales JR, Solís SR, Collado AS, Farnández MS, Rallo JS, Escrihuela-Vidal JSMF, Carratala J, Grau I, Ardanuy C, Berbel D, Salado JCS, Alegre O, Majoral AR, Sbraga F, Blasco A, Sánchez LG, Aldamiz ISRG, Alvarez B, Palacios MB, Ubeda AC, Roblas RF, Hernandez R, Martín VAH, Kallmeyer A, Kancev CL, Martín M, Ruiz MM, Lobato MAN, Pello AM, Prieto L, Mallebrera MT, Triguero LVMD, Ceron REF, Ble LRGM, Gallego JPH, Ginel AJ, López I, Mas A, Mestres A, Molina L, Serrat R, Ribas N, Sánchez F, Silverio A, Suárez M, Sorli L, Recasens L, Regueras MTMF, Vallejo MAM, Rivera JAP, Cano NSMAC, Olivares MF, Nunez MVM, Sanz AM. Epidemiology and Risk Factors of Mycotic Aneurysm in Patients With Infective Endocarditis and the Impact of its Rupture in Outcomes. Analysis of a National Prospective Cohort. *Open Forum Infect Dis.* 2024; 11(3): ofae121. Article. IF: 3.8; Q1

- Cepeda JG, Perona FL, Sánchez IB, Calvo JC, Rico A, Loeches B. Case report: Prosthetic aortic valve endocarditis due to Staphylococcus epidermidis with acquired resistance in the walk gene. *Diagn Micr Infect Dis.* 2024; 108(2): 116132. Article. IF: 1.8; Q2
- Cordero García-Galan E, Medel-Plaza M, Pozo-Kreilinger JJ, Sarnago H, Lucia O, Rico-Nieto A, Esteban J, Gómez-Barrena E. In vivo reduction of biofilm seeded on orthopaedic implants. *Bone Joint Res.* 2024; 13(12): 695-702. Journal Article. IF: 5.1; Q1
- Dahdouh E, Gómez-Marcos L, Cañada-García JE, de Arellano ER, Sánchez-García



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- De Gea-Grela A, Maldonado-Barrueco A, Cabañuz C, Díaz-Almiron M, Rico A, Ruiz-Carrascoso G, Palacios ME, Martín-Arranz E, Escudero-Nieto R, Bernardino J. Human intestinal spirochetosis: an entity associated with sexual transmitted infections. *Enferm Infect Micr Cl.* 2024; 42(5): 231-5. Article. IF: 2.5; Q2
- de la Calle-prieto F, Arsuaga M, Rodríguez-Sevilla G, Paiz NS, Díaz-Menéndez M. The current status of arboviruses with major epidemiological significance in Europe. *Enferm Infect Micr Cl.* 2024; 42(9): 516-26. Article. IF: 2.5; Q2
- Díez-Vidal A, Arroyo-Acosta C, Elvira-Lafuente C, Díaz-Pollán B, Grandioso-Vas D,

Loeches B, Azores-Moreno J, Marcelo-Calvo C, Martínez-Martín P, González-García ME. Epstein-Barr Virus Infection Presenting With Acute Gastrointestinal Involvement. Report of Two Cases of Epstein-Barr Virus Colitis in Kidney-Transplant Recipients and Scoping Review of the Literature. *J Med Virol.* 2024; 96(12): e70121. Article. IF: 4.6; Q1

- Díez-Vidal A, González-García ME, Marco-Clement I, Azores-Moreno J, Rocés-Alvarez P, Marcelo-Calvo C, Martínez-Martín P, González-Muñoz B, Fernández-Hinojal F, Loeches B. Recurrent bacteremia and endocarditis due to Staphylococcus capitis in a patient with Bowen's disease: a case report. *Eur J Clin Microbiol.* 2024; 43(5): 999-1002. Article. IF: 3.0; Q2
- Escrib J, Marcos-Alcalde I, Domínguez-Zotes S, Abia D, Gómez-Puertas P, Valbuena A, Mateu MG. Structural Basis for Alternative Self-Assembly Pathways Leading to Different Human Immunodeficiency Virus Capsid-Like Nanoparticles. *ACS Nano.* 2024; 18(40): 27465-78. Article. IF: 16.0; Q1

- **Escudero-Sánchez R, Ramos-Martínez A, Caballero-Bermejo AF, Díaz-Pollán B, Ruiz-Carrascoso G, Samperio MO, García PM, Amador PM, Romo FG, Segarra OM, Jiménez GN, Albendea LD, García AM, Cobo J.** Bezlotoxumab during the first episode of *Clostridioides difficile* infection in patients at high risk of recurrence. *Eur J Clin Microbiol.* 2024; 43(3): 533-40. Article. IF: 3.0; Q2
- **Falces-Romero I, García-Pérez I, Martín-Carbonero L, García-Rodríguez J, Mingorance J.** Quantification of human immunodeficiency virus type 2 (HIV-2) viral load in plasma: Comparison of three commercial assays. *J Clin Virol.* 2024; 175: 105745. Article. IF: 3.4; Q2
- **Feltes-Ochoa RA, Quiles-Melero I, Martín-Gorgojo A.** AEDV Expert Consensus Document on the Organization of a Multidisciplinary Unit for Patients With or at Risk of Venereal Infections. *Actas Dermosifiliogr.* 2024; 115(6): T583-91. Article. IF: 2.8; Q2
- **Furia F, Levy AM, Theunis M, Bamshad MJ, Bartos MN, Bijlsma EK, Brancati F, Cejudo L, Chong JX, De Luca C, Dean SJ, Egense A, Goel H, Guenzel AJ, Hüffmeier U, Legius E, Mancini GMS, Marcos-Alcalde I, Niclass T, Planes M, Redon S, Ros-Pardo D, Rouault K, Schot R, Schuhmann S, Shen JJ, Tao AM, Thiffault I, Van Esch H, Wentzensen IM, Barakat TS, Moller RS, Gomez-Puertas P, Chung WK, Gardella E, Tümer Z.** The phenotypic and genotypic spectrum of individuals with mono- or biallelic ANK3 variants. *Clin Genet.* 2024; 106(5): 574-84. Article. IF: 2.3; Q3
- **García-Boyano M, Alcalá EJC, Alonso AR, de Villalta MGF, Alonso OZ, Retolaza IR, Melero IQ, Calvo C, García LE.** Pneumonia in Children With Complex Chronic Conditions With Tracheostomy: An Emerging Challenge. *Pediatr Infect Dis J.* 2024; 43(10): 919-23. Article. IF: 2.2; Q2
- **García-Boyano M, Díez MA, Tomé LF, Escosa-García L, Ramos FM, Schuffelmann-Gutiérrez C, Bueno EC, Calvo C, Baquero-Artigao F, Remacha EF.** Ceftazidime-Avibactam Use in a Case Series of Difficult-to-Treat or Recurrent Infections in Pediatric Patients with Complex Chronic Conditions: Effectiveness and Absence of Resistance Development. *Antibiotics (Basel).* 2024; 13(7): 598. Article. IF: 4.6; Q1
- **García-Bujalance S, Rubio-Mora E, Maldonado-Barrueco A, Montejano R, Rodríguez JG.** Chronic bacterial prostatitis with microbiological diagnosis: about two cases. *Rev Esp Quim.* 2024; 37(1): 118-20. Letter. IF: 2.2; Q3
- **García-Sánchez C, García-Rodríguez J, Ruiz-Carrascoso G.** Clinical and microbiological findings of recurrent *Campylobacter* spp. gastroenteritis in a tertiary care hospital. *Enferm Infec Micr Cl.* 2024; 42(5): 257-62. Article. IF: 2.5; Q2
- **García-Sánchez P, Romero-Trancón D, Falces-Romero I, Carrera PN, Ruiz-Carrascoso G, Carmena D, Jiménez MC, Rivero-Juárez A, Moya L, Rodón J, Esperón F, Pérez-Hernando B, Sánchez-León R, Hurtado-Gallego J, Alcolea S, Sainz T, Calvo C, Méndez-Echevarría A.** Zoonosis screening in Spanish immunocompromised children and their pets. *Front Vet Sci.* 2024; 11: 1425870. Article. IF: 2.9; Q1
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**3** Research areas and groups



**3 Research areas and groups**

**3.3. Infectious Diseases and Immunity Area**

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#### Research projects

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- **García Bujalance S.** Evaluación del rendimiento del ensayo aptima hiv-1 quant para la detección y cuantificación del hiv-1 en muestras de plasma. Hologic Deutschland GMBH. 2016-Ongoing. **Management centre:** FIBHULP
- **García Rodríguez J.** Evaluación infectious diseases panel en cobas e801. Roche diagnostics S.L. 2017-Ongoing. **Management centre:** FIBHULP
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## 3 Research areas and groups

### 3.3. Infectious Diseases and Immunity Area

- **Mingorance Cruz J, Lázaro Perona F.** Identificación de los factores que modifican la carga intestinal de EPCS y desarrollo de modelos predictivos del riesgo de infección mediante algoritmos de inteligencia artificial (PI22/01523). ISCIII. 2023-2025. **Management centre:** FIBHULP
- **Prados-Rosales R.** Role of mycobacterial dynamin-like proteins in the biogenesis of membrane vesicles, and host-pathogen interactions (1R01AI161821-01). National Institutes of Health . 2021-2024. **Management centre:** FUJAM

#### Clinical trials

- **Loeches Yagüe MB.** eficacia y seguridad de la perfusión continua vs. perfusión intermitente de ampicilina y ceftriaxona para el tratamiento de endocarditis infecciosa por enterococcus faecalis (doβlei). **Type/Phase:** IV  
**Sponsored by:** Fundación Publica Andaluza Para La Gestion De La Investigacion En Salud De Sevilla  
**Signature date:** 24/09/2024

#### Patents and trademarks

- **Vicente Muñoz M, Mingorance Cruz J, Rueda González MS, inventors; CSIC, assignee.** Method for determining state of growth and viability of bacterial FtsZ population, whether natural or cultivated, is based on determining existence of FtsZ rings in actively growing individual cells. P200200370; 2002 February 15.
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