

**Listado de contribuciones científicas directamente relacionadas con las Tesis
Doctorales defendidas dentro del RD99/2011 en el Programa de Doctorado en
Bioquímica, Biología Molecular y Biomedicina
(hasta el curso 2021-2022)**

- Addante A., Roncero C., Almale L., Lazcanoiturburu N., Garcia-Alvaro M., Fernandez M., Sanz J., Hammad S., Nwosu Z.C., Lee S.J., Fabregat I., Dooley S., Ten Dijke P., Herrera B., y Sanchez A. (2018) Bone morphogenetic protein 9 as a key regulator of liver progenitor cells in DDC-induced cholestatic liver injury. *Liver Int* **38**: 1664-75.
- Addante A., Roncero C., Lazcanoiturburu N., Mendez R., Almale L., Garcia-Alvaro M., Ten Dijke P., Fabregat I., Herrera B., y Sanchez A. (2020) A Signaling Crosstalk between BMP9 and HGF/c-Met Regulates Mouse Adult Liver Progenitor Cell Survival. *Cells* **9**:
- Adrover J.M., y Hidalgo A. (2015) Activated platelets jam up the plaque. *Circ Res* **116**: 557-9.
- Adrover J.M., Nicolas-Avila J.A., y Hidalgo A. (2016) Aging: A Temporal Dimension for Neutrophils. *Trends Immunol* **37**: 334-45.
- Adrover J.M., Del Fresno C., Crainiciuc G., Cuartero M.I., Casanova-Acebes M., Weiss L.A., Huerga-Encabo H., Silvestre-Roig C., Rossaint J., Cossio I., Lechuga-Vieco A.V., Garcia-Prieto J., Gomez-Parrizas M., Quintana J.A., Ballesteros I., Martin-Salamanca S., Aroca-Crevillen A., Chong S.Z., Evrard M., Balabanian K., Lopez J., Bidzhakov K., Bachelerie F., Abad-Santos F., Munoz-Calleja C., Zarbock A., Soehnlein O., Weber C., Ng L.G., Lopez-Rodriguez C., Sancho D., Moro M.A., Ibanez B., y Hidalgo A. (2019) A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. *Immunity* **51**: 966-7.
- Adrover J.M., Aroca-Crevillen A., Crainiciuc G., Ostos F., Rojas-Vega Y., Rubio-Ponce A., Cilloniz C., Bonzon-Kulichenko E., Calvo E., Rico D., Moro M.A., Weber C., Lizasoain I., Torres A., Ruiz-Cabello J., Vazquez J., y Hidalgo A. (2020) Programmed 'disarming' of the neutrophil proteome reduces the magnitude of inflammation. *Nat Immunol* **21**: 135-44.
- Aguilar E., Allende L., Del Toro F.J., Chung B.N., Canto T., y Tenllado F. (2015) Effects of Elevated CO₂ and Temperature on Pathogenicity Determinants and Virulence of Potato virus X/Potyvirus-Associated Synergism. *Mol Plant Microbe Interact* **28**: 1364-73.
- Aguilar E., Almendral D., Allende L., Pacheco R., Chung B.N., Canto T., y Tenllado F. (2015) Correction for Aguilar et al., The P25 Protein of Potato Virus X (PVX) Is the Main Pathogenicity Determinant Responsible for Systemic Necrosis in PVX-Associated Synergisms. *J Virol* **89**: 9699.
- Aguilar E., Almendral D., Allende L., Pacheco R., Chung B.N., Canto T., y Tenllado F. (2015) The P25 protein of potato virus X (PVX) is the main pathogenicity determinant responsible for systemic necrosis in PVX-associated synergisms. *J Virol* **89**: 2090-103.
- Aguilar E., Cutrona C., Del Toro F.J., Vallarino J.G., Osorio S., Perez-Bueno M.L., Baron M., Chung B.N., Canto T., y Tenllado F. (2017) Virulence determines beneficial trade-offs in the response of virus-infected plants to drought via induction of salicylic acid. *Plant Cell Environ* **40**: 2909-30.
- Aguilar E., Del Toro F.J., Canto T., y Tenllado F. (2017) Identification of MAPKs as signal transduction components required for the cell death response during compatible infection by the synergistic pair Potato virus X-Potato virus Y. *Virology* **509**: 178-84.

- Aguilar E., Del Toro F.J., Brosseau C., Moffett P., Canto T., y Tenllado F. (2019) Cell death triggered by the P25 protein in Potato virus X-associated synergisms results from endoplasmic reticulum stress in *Nicotiana benthamiana*. *Mol Plant Pathol* **20**: 194-210.
- Aguilar E., Del Toro F.J., Figueira-Galan D., Hou W., Canto T., y Tenllado F. (2020) Virus infection induces resistance to *Pseudomonas syringae* and to drought in both compatible and incompatible bacteria-host interactions, which are compromised under conditions of elevated temperature and CO₂ levels. *J Gen Virol* **101**: 122-35.
- Alameda J.P., Gaspar M., Ramirez A., Navarro M., Page A., Suarez-Cabrera C., Fernandez M.G., Merida J.R., Paramio J.M., Garcia-Fernandez R.A., Fernandez-Acenero M.J., y Casanova M.L. (2016) Deciphering the role of nuclear and cytoplasmic IKK α in skin cancer. *Oncotarget* **7**: 29531-47.
- Alameda J.P., Navarro M., Ramirez A., Page A., Suarez-Cabrera C., Moreno-Maldonado R., Paramio J.M., del Carmen Farina M.R., Del Rio M., Fernandez-Acenero M.J., Bravo A., y de Los Llanos Casanova M.R. (2016) IKK α regulates the stratification and differentiation of the epidermis: implications for skin cancer development. *Oncotarget* **7**: 76779-92.
- Alameda J.P., Ramirez A., Garcia-Fernandez R.A., Navarro M., Page A., Segovia J.C., Sanchez R., Suarez-Cabrera C., Paramio J.M., Bravo A., Fernandez-Acenero M.J., y Casanova M.L. (2019) Premature aging and cancer development in transgenic mice lacking functional CYLD. *Aging (Albany NY)* **11**: 127-59.
- Alameda J.P., Garcia-Garcia V.A., Lopez S., Hernando A., Page A., Navarro M., Moreno-Maldonado R., Paramio J.M., Ramirez A., Garcia-Fernandez R.A., y Casanova M.L. (2021) CYLD Inhibits the Development of Skin Squamous Cell Tumors in Immunocompetent Mice. *Int J Mol Sci* **22**:
- Alfaro E., Lopez-Jimenez P., Gonzalez-Martinez J., Malumbres M., Suja J.A., y Gomez R. (2021) PLK1 regulates centrosome migration and spindle dynamics in male mouse meiosis. *EMBO Rep* **22**: e51030.
- Alkozi H., Sánchez-Naves J., de Lara M.J., Carracedo G., Fonseca B., Martínez-Águila A., y Pintor J. (2017) Elevated intraocular pressure increases melatonin levels in the aqueous humour. *Acta Ophthalmol* **95**: e185-e9.
- Alkozi H.A., y Pintor J. (2015) TRPV4 activation triggers the release of melatonin from human non-pigmented ciliary epithelial cells. *Exp Eye Res* **136**: 34-7.
- Alkozi H.A., Franco R., y Pintor J.J. (2017) Epigenetics in the Eye: An Overview of the Most Relevant Ocular Diseases. *Front Genet* **8**: 144.
- Alkozi H.A., Perez de Lara M.J., y Pintor J. (2017) Melatonin synthesis in the human ciliary body triggered by TRPV4 activation: Involvement of AANAT phosphorylation. *Exp Eye Res* **162**: 1-8.
- Alkozi H.A., Perez de Lara M.J., Sanchez-Naves J., y Pintor J. (2017) TRPV4 Stimulation Induced Melatonin Secretion by Increasing Arylalkylamine N-acetyltransferase (AANAT) Protein Level. *Int J Mol Sci* **18**:
- Alkozi H.A., Wang X., Perez de Lara M.J., y Pintor J. (2017) Presence of melanopsin in human crystalline lens epithelial cells and its role in melatonin synthesis. *Exp Eye Res* **154**: 168-76.
- Alkozi H.A., Sanchez Montero J.M., Doadrio A.L., y Pintor J. (2018) Docking studies for melatonin receptors. *Expert Opin Drug Discov* **13**: 241-8.

- Alkozi H.A., Navarro G., Aguinaga D., Reyes-Resina I., Sanchez-Naves J., Perez de Lara M.J., Franco R., y Pintor J. (2020) Adreno-melatonin receptor complexes control ion homeostasis and intraocular pressure - their disruption contributes to hypertensive glaucoma. *Br J Pharmacol* **177**: 2090-105.
- Alkozi H.A., Navarro G., Franco R., y Pintor J. (2020) Melatonin and the control of intraocular pressure. *Prog Retin Eye Res* **75**: 100798.
- Almalé L., García-Álvaro M., Martínez-Palacián A., García-Bravo M., Lazcanoiturburu N., Addante A., Roncero C., Sanz J., de la O.L.M., Bragado P., Mikulits W., Factor V.M., Thorgeirsson S.S., Casal J.I., Segovia J.C., Rial E., Fabregat I., Herrera B., y Sánchez A. (2019) c-Met Signaling Is Essential for Mouse Adult Liver Progenitor Cells Expansion After Transforming Growth Factor-beta-Induced Epithelial-Mesenchymal Transition and Regulates Cell Phenotypic Switch. *Stem Cells* **37**: 1108-18.
- Alonso B., Bartolome-Martin D., Ferrero J.J., Ramirez-Franco J., Torres M., y Sanchez-Prieto J. (2017) CB1 receptors down-regulate a cAMP/Epac2/PLC pathway to silence the nerve terminals of cerebellar granule cells. *J Neurochem* **142**: 350-64.
- Alvarez-Carrion L., Gutierrez-Rojas I., Rodriguez-Ramos M.R., Ardura J.A., y Alonso V. (2021) MINDIN Exerts Protumorigenic Actions on Primary Prostate Tumors via Downregulation of the Scaffold Protein NHERF-1. *Cancers (Basel)* **13**:
- Álvarez-Cilleros D., Martín M.A., y Ramos S. (2018) (-)-Epicatechin and the Colonic 2,3-Dihydroxybenzoic Acid Metabolite Regulate Glucose Uptake, Glucose Production, and Improve Insulin Signaling in Renal NRK-52E Cells. *Mol Nutr Food Res* **62**:
- Álvarez-Cilleros D., Martín M.A., y Ramos S. (2018) Protective effects of (-)-epicatechin and the colonic metabolite 3,4-dihydroxyphenylacetic acid against glucotoxicity-induced insulin signalling blockade and altered glucose uptake and production in renal tubular NRK-52E cells. *Food Chem Toxicol* **120**: 119-28.
- Álvarez-Cilleros D., Ramos S., Goya L., y Martín M.A. (2018) Colonic metabolites from flavanols stimulate nitric oxide production in human endothelial cells and protect against oxidative stress-induced toxicity and endothelial dysfunction. *Food Chem Toxicol* **115**: 88-97.
- Álvarez-Cilleros D., López-Oliva E., Goya L., Martín M.A., y Ramos S. (2019) Cocoa intake attenuates renal injury in Zucker Diabetic fatty rats by improving glucose homeostasis. *Food Chem Toxicol* **127**: 101-9.
- Álvarez-Cilleros D., López-Oliva M.E., Martín M.A., y Ramos S. (2019) Cocoa ameliorates renal injury in Zucker diabetic fatty rats by preventing oxidative stress, apoptosis and inactivation of autophagy. *Food Funct* **10**: 7926-39.
- Álvarez-Cilleros D., López-Oliva M.E., Morales-Cano D., Barreira B., Pérez-Vizcaíno F., Goya L., Ramos S., y Martín M.A. (2019) Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. *Mol Nutr Food Res* **63**: e1900044.
- Álvarez-Cilleros D., López-Oliva M.E., Ramos S., y Martín M.A. (2020) Preventive effect of cocoa flavanols against glucotoxicity-induced vascular inflammation in the arteria of diabetic rats and on the inflammatory process in TNF-alpha-stimulated endothelial cells. *Food Chem Toxicol* **146**: 111824.
- Álvarez-Cilleros D., Ramos S., López-Oliva M.E., Escrivá F., Álvarez C., Fernández-Millán E., y Martín M.A. (2020) Cocoa diet modulates gut microbiota composition and improves intestinal health in Zucker diabetic rats. *Food Res Int* **132**: 109058.

- Alvarez-Llamas G., Santiago-Hernandez A., y Ruilope L.M. (2022) Evidence of chronic kidney injury in patients not meeting KDIGO criteria for chronic kidney disease. *Clin Kidney J* **15**: 1217-20.
- Álvarez Cilleros D., López-Oliva M.E., Martín M.A., y Ramos S. (2020) (-)-Epicatechin and the colonic metabolite 2,3-dihydroxybenzoic acid protect against high glucose and lipopolysaccharide-induced inflammation in renal proximal tubular cells through NOX-4/p38 signalling. *Food Funct* **11**: 8811-24.
- Ancos-Pintado R., Bragado-García I., Morales M.L., García-Vicente R., Arroyo-Barea A., Rodríguez-García A., Martínez-López J., Linares M., y Hernández-Sánchez M. (2022) High-Throughput CRISPR Screening in Hematological Neoplasms. *Cancers (Basel)* **14**:
- Andradas C., Blasco-Benito S., Castillo-Lluya S., Dillenburg-Pilla P., Díez-Alarcía R., Juanes-García A., García-Taboada E., Hernando-Llorente R., Soriano J., Hamann S., Wenners A., Alkatout I., Klapper W., Rocken C., Bauer M., Arnold N., Quintanilla M., Megías D., Vicente-Manzanares M., Uriguen L., Gutkind J.S., Guzmán M., Pérez-Gómez E., y Sánchez C. (2016) Activation of the orphan receptor GPR55 by lysophosphatidylinositol promotes metastasis in triple-negative breast cancer. *Oncotarget* **7**: 47565-75.
- Angelina A., Pérez-Diego M., López-Abente J., y Palomares O. (2020) The Role of Cannabinoids in Allergic Diseases: Collegium Internationale Allergologicum (CIA) Update 2020. *Int Arch Allergy Immunol* **181**: 565-84.
- Angelina A., Martín-Fontecha M., Ruckert B., Wawrzyniak P., Pérez-Diego M., López-Abente J., Akdis M., Akdis C.A., y Palomares O. (2021) The cannabinoid WIN55212-2 restores rhinovirus-induced epithelial barrier disruption. *Allergy* **76**: 1900-2.
- Angelina A., Pérez-Diego M., López-Abente J., Ruckert B., Nombela I., Akdis M., Martín-Fontecha M., Akdis C., y Palomares O. (2021) Cannabinoids induce functional Tregs by promoting tolerogenic DCs via autophagy and metabolic reprogramming. *Mucosal Immunol*
- Angelina A., Pérez-Diego M., Maldonado A., Ruckert B., Akdis M., Martín-Fontecha M., Akdis C.A., y Palomares O. (2021) The cannabinoid WIN55212-2 suppresses effector T-cell responses and promotes regulatory T cells in human tonsils. *Allergy*
- Anguita E., Candel F.J., Chaparro A., y Roldan-Etcheverry J.J. (2017) Transcription Factor GFI1B in Health and Disease. *Front Oncol* **7**: 54.
- Anguita E., Chaparro A., Candel F.J., Ramos-Acosta C., Martínez-Micaelo N., Amigo N., Torrejon M.J., Llopis-García G., Suárez-Cadenas M.D.M., Matesanz M., González Del Castillo J., y Martín-Sánchez F.J. (2022) Biomarkers of stable and decompensated phases of heart failure with preserved ejection fraction. *Int J Cardiol* **361**: 91-100.
- Ardura J.A., Gutiérrez-Rojas I., Álvarez-Carrion L., Rodríguez-Ramos M.R., Pozuelo J.M., y Alonso V. (2019) The secreted matrix protein mindin increases prostate tumor progression and tumor-bone crosstalk via ERK 1/2 regulation. *Carcinogenesis* **40**: 828-39.
- Ardura J.A., Álvarez-Carrion L., Gutiérrez-Rojas I., y Alonso V. (2020) Role of Calcium Signaling in Prostate Cancer Progression: Effects on Cancer Hallmarks and Bone Metastatic Mechanisms. *Cancers (Basel)* **12**:
- Ardura J.A., Álvarez-Carrion L., Gutiérrez-Rojas I., Friedman P.A., Gortazar A.R., y Alonso V. (2020) MINDIN secretion by prostate tumors induces premetastatic changes in bone via beta-catenin. *Endocr Relat Cancer* **27**: 441-56.

- Autilio C., Echaide M., Cruz A., Garcia-Mouton C., Hidalgo A., Da Silva E., De Luca D., Sorli J.B., y Perez-Gil J. (2021) Molecular and biophysical mechanisms behind the enhancement of lung surfactant function during controlled therapeutic hypothermia. *Sci Rep* **11**: 728.
- Autilio C., Echaide M., Cruz A., Garcia-Mouton C., Hidalgo A., Da Silva E., De Luca D., Sorli J.B., y Perez-Gil J. (2021) Author Correction: Molecular and biophysical mechanisms behind the enhancement of lung surfactant function during controlled therapeutic hypothermia. *Sci Rep* **11**: 9990.
- Ayuso-Fernández I., Martínez A.T., y Ruiz-Dueñas F.J. (2017) Experimental recreation of the evolution of lignin-degrading enzymes from the Jurassic to date. *Biotechnol Biofuels* **10**: 67.
- Ayuso-Fernández I., Ruiz-Dueñas F.J., y Martínez A.T. (2018) Evolutionary convergence in lignin-degrading enzymes. *Proc Natl Acad Sci U S A* **115**: 6428-33.
- Ayuso-Fernández I., De Lacey A.L., Cañada F.J., Ruiz-Dueñas F.J., y Martínez A.T. (2019) Increase of Redox Potential during the Evolution of Enzymes Degrading Recalcitrant Lignin. *Chemistry* **25**: 2708-12.
- Ayuso-Fernández I., Rencoret J., Gutiérrez A., Ruiz-Dueñas F.J., y Martínez A.T. (2019) Peroxidase evolution in white-rot fungi follows wood lignin evolution in plants. *Proc Natl Acad Sci U S A* **116**: 17900-5.
- Baldán-Martín M., de la Cuesta F., Álvarez-Llamas G., González-Calero L., Ruiz-Hurtado G., Moreno-Luna R., Mouriño-Álvarez L., Sastre-Oliva T., Segura J., Padial L.R., Vivanco F., Ruilope L.M., y Barderas M.G. (2015) Prediction of development and maintenance of high albuminuria during chronic renin-angiotensin suppression by plasma proteomics. *Int J Cardiol* **196**: 170-7.
- Baldán-Martín M., Mouriño-Álvarez L., González-Calero L., Moreno-Luna R., Sastre-Oliva T., Ruiz-Hurtado G., Segura J., López J.A., Vázquez J., Vivanco F., Álvarez-Llamas G., Ruilope L.M., de la Cuesta F., y Barderas M.G. (2016) Plasma Molecular Signatures in Hypertensive Patients With Renin-Angiotensin System Suppression: New Predictors of Renal Damage and De Novo Albuminuria Indicators. *Hypertension* **68**: 157-66.
- Baldán-Martín M., de la Cuesta F., Álvarez-Llamas G., Ruiz-Hurtado G., Ruilope L.M., y Barderas M.G. (2017) Proteomic Analysis of Blood Extracellular Vesicles in Cardiovascular Disease by LC-MS/MS Analysis. *Methods Mol Biol* **1619**: 141-9.
- Baldán-Martín M., López J.A., Corbacho-Alonso N., Martínez P.J., Rodríguez-Sánchez E., Mouriño-Álvarez L., Sastre-Oliva T., Martín-Rojas T., Rincón R., Calvo E., Vázquez J., Vivanco F., Padial L.R., Álvarez-Llamas G., Ruiz-Hurtado G., Ruilope L.M., y Barderas M.G. (2018) Potential role of new molecular plasma signatures on cardiovascular risk stratification in asymptomatic individuals. *Sci Rep* **8**: 4802.
- Baldán-Martín M., Rodríguez-Sánchez E., González-Calero L., Ruilope L.M., Álvarez-Llamas G., Barderas M.G., y Ruiz-Hurtado G. (2018) Translational science in albuminuria: a new view of de novo albuminuria under chronic RAS suppression. *Clin Sci (Lond)* **132**: 739-58.
- Baldán-Martín M., Martín-Rojas T., Corbacho-Alonso N., López J.A., Sastre-Oliva T., Gil-Donés F., Vázquez J., Arévalo J.M., Mouriño-Álvarez L., y Barderas M.G. (2020) Comprehensive Proteomic Profiling of Pressure Ulcers in Patients with Spinal Cord Injury Identifies a Specific Protein Pattern of Pathology. *Adv Wound Care (New Rochelle)* **9**: 277-94.
- Baldanta S., Fernandez-Escobar M., Acin-Perez R., Albert M., Camafeita E., Jorge I., Vazquez J., Enriquez J.A., y Guerra S. (2017) ISG15 governs mitochondrial function in macrophages following vaccinia virus infection. *PLoS Pathog* **13**: e1006651.

- Baldanta S., Navarro Llorens J.M., y Guevara G. (2021) Further Studies on the 3-Ketosteroid 9alpha-Hydroxylase of *Rhodococcus ruber* Chol-4, a Rieske Oxygenase of the Steroid Degradation Pathway. *Microorganisms* **9**:
- Baldanta S., Guevara G., y Navarro-Llorens J.M. (2022) SEVA-Cpf1, a CRISPR-Cas12a vector for genome editing in cyanobacteria. *Microb Cell Fact* **21**: 103.
- Baos S., Calzada D., Cremades L., Sastre J., Quiralte J., Florido F., Lahoz C., y Cárdbaba B. (2017) Data set on a study of gene expression in peripheral samples to identify biomarkers of severity of allergic and nonallergic asthma. *Data Brief* **10**: 505-10.
- Baos S., Calzada D., Cremades-Jimeno L., Sastre J., Picado C., Quiralte J., Florido F., Lahoz C., y Cárdbaba B. (2018) Nonallergic Asthma and Its Severity: Biomarkers for Its Discrimination in Peripheral Samples. *Front Immunol* **9**: 1416.
- Baos S., Calzada D., Cremades-Jimeno L., de Pedro M., Sastre J., Picado C., Quiralte J., Florido F., Lahoz C., y Cárdbaba B. (2019) Discriminatory Molecular Biomarkers of Allergic and Nonallergic Asthma and Its Severity. *Front Immunol* **10**: 1051.
- Barquín M., Maximiano C., Pérez-Barrios C., Sánchez-Herrero E., Soriano M., Colmena M., García-Espantaleón M., Tejerina González E., Gutiérrez L., Sánchez Ruiz A.C., Torrente M., Provencio M., y Romero A. (2019) Peritoneal washing is an adequate source for somatic BRCA1/2 mutation testing in ovarian malignancies. *Pathol Res Pract* **215**: 392-4.
- Bartolome R.A., Aizpurua C., Jaen M., Torres S., Calvino E., Imbaud J.I., y Casal J.I. (2018) Monoclonal Antibodies Directed against Cadherin RGD Exhibit Therapeutic Activity against Melanoma and Colorectal Cancer Metastasis. *Clin Cancer Res* **24**: 433-44.
- Bartolome R.A., Jaen M., y Casal J.I. (2018) An IL13Ralpha2 peptide exhibits therapeutic activity against metastatic colorectal cancer. *Br J Cancer* **119**: 940-9.
- Bartolome R.A., Martin-Regalado A., Jaen M., Zannikou M., Zhang P., de Los Rios V., Balyasnikova I.V., y Casal J.I. (2020) Protein Tyrosine Phosphatase-1B Inhibition Disrupts IL13Ralpha2-Promoted Invasion and Metastasis in Cancer Cells. *Cancers (Basel)* **12**:
- Bartolome R.A., Pintado-Berninches L., Jaen M., de Los Rios V., Imbaud J.I., y Casal J.I. (2020) SOSTDC1 promotes invasion and liver metastasis in colorectal cancer via interaction with ALCAM/CD166. *Oncogene* **39**: 6085-98.
- Benedé S., Ramos-Soriano J., Palomares F., Losada J., Mascaraque A., López-Rodríguez J.C., Rojo J., Mayorga C., Villalba M., y Batanero E. (2020) Peptide Glycodendrimers as Potential Vaccines for Olive Pollen Allergy. *Mol Pharm* **17**: 827-36.
- Benitez-Fernandez R., Melero-Jerez C., Gil C., de la Rosa E.J., Martinez A., y de Castro F. (2021) Dynamics of Central Remyelination and Treatment Evolution in a Model of Multiple Sclerosis with Optic Coherence Tomography. *Int J Mol Sci* **22**: 2440.
- Benito-Jardón L., Díaz-Martínez M., Arellano-Sánchez N., Vaquero-Morales P., Esparis-Ogando A., y Teixidó J. (2019) Resistance to MAPK Inhibitors in Melanoma Involves Activation of the IGF1R-MEK5-Erk5 Pathway. *Cancer Res* **79**: 2244-56.
- Benito-Villalvilla C., Cirauqui C., Diez-Rivero C.M., Casanovas M., Subiza J.L., y Palomares O. (2017) MV140, a sublingual polyvalent bacterial preparation to treat recurrent urinary tract infections, licenses human

- dendritic cells for generating Th1, Th17, and IL-10 responses via Syk and MyD88. *Mucosal Immunol* **10**: 924-35.
- Benito-Villalvilla C., Soria I., Subiza J.L., y Palomares O. (2018) Novel vaccines targeting dendritic cells by coupling allergoids to mannan. *Allergo J Int* **27**: 256-62.
- Benito-Villalvilla C., Soria I., Perez-Diego M., Fernandez-Caldas E., Subiza J.L., y Palomares O. (2020) Alum impairs tolerogenic properties induced by allergoid-mannan conjugates inhibiting mTOR and metabolic reprogramming in human DCs. *Allergy* **75**: 648-59.
- Benito-Villalvilla C., Perez-Diego M., Angelina A., Kisand K., Rebane A., Subiza J.L., y Palomares O. (2022) Allergoid-mannan conjugates reprogram monocytes into tolerogenic dendritic cells via epigenetic and metabolic rewiring. *J Allergy Clin Immunol* **149**: 212-22 e9.
- Benito-Villalvilla C., Perez-Diego M., Subiza J.L., y Palomares O. (2022) Allergoid-mannan conjugates imprint tolerogenic features in human macrophages. *Allergy* **77**: 320-3.
- Berenguer I., Lopez-Jimenez P., Mena I., Viera A., Page J., Gonzalez-Martinez J., Maestre C., Malumbres M., Suja J.A., y Gomez R. (2022) Haspin participates in AURKB recruitment to centromeres and contributes to chromosome congression in male mouse meiosis. *J Cell Sci* **135**:
- Bernardo-García N., Mahasenan K.V., Batuecas M.T., Lee M., Heseck D., Petrackova D., Doubravova L., Branny P., Mobashery S., y Hermoso J.A. (2018) Allosteric Recognition of Nascent Peptidoglycan, and Cross-linking of the Cell Wall by the Essential Penicillin-Binding Protein 2x of *Streptococcus pneumoniae*. *ACS Chem Biol* **13**: 694-702.
- Blanco A.M., Bertucci J.I., Delgado M.J., Valenciano A.I., y Unniappan S. (2016) Tissue-specific expression of ghrelinergic and NUCB2/nesfatin-1 systems in goldfish (*Carassius auratus*) is modulated by macronutrient composition of diets. *Comp Biochem Physiol A Mol Integr Physiol* **195**: 1-9.
- Blanco A.M., Gomez-Boronat M., Redondo I., Valenciano A.I., y Delgado M.J. (2016) Periprandial changes and effects of short- and long-term fasting on ghrelin, GOAT, and ghrelin receptors in goldfish (*Carassius auratus*). *J Comp Physiol B* **186**: 727-38.
- Blanco A.M., Sanchez-Bretano A., Delgado M.J., y Valenciano A.I. (2016) Brain Mapping of Ghrelin O-Acetyltransferase in Goldfish (*Carassius Auratus*): Novel Roles for the Ghrelinergic System in Fish? *Anat Rec (Hoboken)* **299**: 748-58.
- Blanco A.M., Bertucci J.I., Ramesh N., Delgado M.J., Valenciano A.I., y Unniappan S. (2017) Ghrelin Facilitates GLUT2-, SGLT1- and SGLT2-mediated Intestinal Glucose Transport in Goldfish (*Carassius auratus*). *Sci Rep* **7**: 45024.
- Blanco A.M., Bertucci J.I., Sanchez-Bretano A., Delgado M.J., Valenciano A.I., y Unniappan S. (2017) Ghrelin modulates gene and protein expression of digestive enzymes in the intestine and hepatopancreas of goldfish (*Carassius auratus*) via the GHS-R1a: Possible roles of PLC/PKC and AC/PKA intracellular signaling pathways. *Mol Cell Endocrinol* **442**: 165-81.
- Blanco A.M., Bertucci J.I., Valenciano A.I., Delgado M.J., y Unniappan S. (2017) Ghrelin suppresses cholecystokinin (CCK), peptide YY (PYY) and glucagon-like peptide-1 (GLP-1) in the intestine, and attenuates the anorectic effects of CCK, PYY and GLP-1 in goldfish (*Carassius auratus*). *Horm Behav* **93**: 62-71.

- Blanco A.M., Gomez-Boronat M., Alonso-Gomez A.L., Yufa R., Unniappan S., Delgado M.J., y Valenciano A.I. (2017) Characterization of Ghrelin O-Acyltransferase (GOAT) in goldfish (*Carassius auratus*). *PLoS One* **12**: e0171874.
- Blanco A.M., Gomez-Boronat M., Madera D., Valenciano A.I., Alonso-Gomez A.L., y Delgado M.J. (2018) First evidence of nocturnin in fish: two isoforms in goldfish differentially regulated by feeding. *Am J Physiol Regul Integr Comp Physiol* **314**: R304-R12.
- Blanco A.M., Cortes R., Bertucci J.I., Soletto L., Sanchez E., Valenciano A.I., Cerda-Reverter J.M., y Delgado M.J. (2020) Brain transcriptome profile after CRISPR-induced ghrelin mutations in zebrafish. *Fish Physiol Biochem* **46**: 1-21.
- Blasco-Benito S., Seijo-Vila M., Caro-Villalobos M., Tundidor I., Andradas C., Garcia-Taboada E., Wade J., Smith S., Guzman M., Perez-Gomez E., Gordon M., y Sanchez C. (2018) Appraising the "entourage effect": Antitumor action of a pure cannabinoid versus a botanical drug preparation in preclinical models of breast cancer. *Biochem Pharmacol* **157**: 285-93.
- Blasco-Benito S., Seijo-Vila M., Caro-Villalobos M., Tundidor I., Andradas C., García-Taboada E., Wade J., Smith S., Guzmán M., Pérez-Gómez E., Gordon M., y Sánchez C. (2018) Appraising the "entourage effect": Antitumor action of a pure cannabinoid versus a botanical drug preparation in preclinical models of breast cancer. *Biochem Pharmacol* **157**: 285-93.
- Blasco-Benito S., Moreno E., Seijo-Vila M., Tundidor I., Andradas C., Caffarel M.M., Caro-Villalobos M., Uriguen L., Díez-Alarcía R., Moreno-Bueno G., Hernández L., Manso L., Homar-Ruano P., McCormick P.J., Bibic L., Bernado-Morales C., Arribas J., Canals M., Casado V., Canela E.I., Guzman M., Perez-Gomez E., y Sanchez C. (2019) Therapeutic targeting of HER2-CB2R heteromers in HER2-positive breast cancer. *Proc Natl Acad Sci U S A* **116**: 3863-72.
- Blasco-Benito S., Moreno E., Seijo-Vila M., Tundidor I., Andradas C., Caffarel M.M., Caro-Villalobos M., Uriguen L., Díez-Alarcía R., Moreno-Bueno G., Hernández L., Manso L., Homar-Ruano P., McCormick P.J., Bibic L., Bernado-Morales C., Arribas J., Canals M., Casado V., Canela E.I., Guzmán M., Pérez-Gómez E., y Sánchez C. (2019) Therapeutic targeting of HER2-CB2R heteromers in HER2-positive breast cancer. *Proc Natl Acad Sci U S A* **116**: 3863-72.
- Boya P., Esteban-Martínez L., Serrano-Puebla A., Gómez-Sintes R., y Villarejo-Zori B. (2016) Autophagy in the eye: Development, degeneration, and aging. *Prog Retin Eye Res* **55**: 206-45.
- Bueno-Díaz C., Martín-Pedraza L., Benedé S., Haroun-Díaz E., de las Heras M., Batanero E., Cuesta-Herranz J., y Villalba M. (2019) Seed storage 2S albumins are predictive indicators of exclusive Anacardiaceae cross-reactivity. *Clin Exp Allergy* **49**: 545-9.
- Bueno-Díaz C., Martín-Pedraza L., León L., Haroun-Díaz E., Pastor-Vargas C., Muñoz-García E., de las Heras M., Batanero E., Cuesta-Herranz J., y Villalba M. (2020) 2S albumins and 11S globulins, two storage proteins involved in pumpkin seeds allergy. *Allergy*
- Bueno O., Estevez Gallego J., Martins S., Protá A.E., Gago F., Gomez-SanJuan A., Camarasa M.J., Barasoain I., Steinmetz M.O., Díaz J.F., Perez-Perez M.J., Liekens S., y Priego E.M. (2018) High-affinity ligands of the colchicine domain in tubulin based on a structure-guided design. *Sci Rep* **8**: 4242.
- Burillo J., Fernandez-Rhodes M., Piquero M., Lopez-Alvarado P., Menendez J.C., Jimenez B., Gonzalez-Blanco C., Marques P., Guillen C., y Benito M. (2021) Human amylin aggregates release within exosomes as a protective mechanism in pancreatic beta cells: Pancreatic beta-hippocampal cell communication. *Biochim Biophys Acta Mol Cell Res* **1868**: 118971.

- Burillo J., Marques P., Jimenez B., Gonzalez-Blanco C., Benito M., y Guillen C. (2021) Insulin Resistance and Diabetes Mellitus in Alzheimer's Disease. *Cells* **10**:
- Bustos-Moran E., Blas-Rus N., Alcaraz-Serna A., Iborra S., Gonzalez-Martinez J., Malumbres M., y Sanchez-Madrid F. (2019) Aurora A controls CD8(+) T cell cytotoxic activity and antiviral response. *Sci Rep* **9**: 2211.
- Cabré E.J., Martínez-Calle M., Prieto M., Fedorov A., Olmeda B., Loura L.M.S., y Pérez-Gil J. (2018) Homo- and hetero-oligomerization of hydrophobic pulmonary surfactant proteins SP-B and SP-C in surfactant phospholipid membranes. *J Biol Chem* **293**: 9399-411.
- Cajas Y.N., Canon-Beltran K., Ladron de Guevara M., Millan de la Blanca M.G., Ramos-Ibeas P., Gutierrez-Adan A., Rizos D., y Gonzalez E.M. (2020) Antioxidant Nobiletin Enhances Oocyte Maturation and Subsequent Embryo Development and Quality. *Int J Mol Sci* **21**:
- Cajas Y.N., Canon-Beltran K., Nunez-Puente C., Gutierrez-Adan A., Gonzalez E.M., Agirregoitia E., y Rizos D. (2021) Nobiletin-induced partial abrogation of deleterious effects of AKT inhibition on preimplantation bovine embryo development in vitro. *Biol Reprod*
- Calle-Espinosa J., Ponce-de-León M., Santos-García D., Silva F.J., Montero F., y Peretó J. (2016) Nature lessons: The whitefly bacterial endosymbiont is a minimal amino acid factory with unusual energetics. *J Theor Biol* **407**: 303-17.
- Callesen K.T., Yuste-Montalvo A., Poulsen L.K., Jensen B.M., y Esteban V. (2021) In Vitro Investigation of Vascular Permeability in Endothelial Cells from Human Artery, Vein and Lung Microvessels at Steady-State and Anaphylactic Conditions. *Biomedicines* **9**:
- Calzada D., Baos S., Cremades-Jimeno L., y Cárdbaba B. (2018) Immunological Mechanisms in Allergic Diseases and Allergen Tolerance: The Role of Treg Cells. *J Immunol Res* **2018**: 6012053.
- Calzada D., Baos S., Cremades L., y Cárdbaba B. (2018) New Treatments for Allergy: Advances in Peptide Immunotherapy. *Curr Med Chem* **25**: 2215-32.
- Campo P., Villalba M., Barrionuevo E., Rondon C., Salas M., Galindo L., Rodríguez M.J., López-Rodríguez J.C., Prieto-del Prado M.A., Torres M.J., Blanca M., y Mayorga C. (2015) Immunologic responses to the major allergen of *Olea europaea* in local and systemic allergic rhinitis subjects. *Clin Exp Allergy* **45**: 1703-12.
- Canal-Martin A., Sastre J., Sanchez-Barrena M.J., Canales A., Baldominos S., Pascual N., Martinez-Gonzalez L., Molero D., Fernandez-Valle M.E., Saez E., Blanco-Gabella P., Gomez-Rubio E., Martin-Santamaria S., Saiz A., Mansilla A., Canada F.J., Jimenez-Barbero J., Martinez A., y Perez-Fernandez R. (2019) Insights into real-time chemical processes in a calcium sensor protein-directed dynamic library. *Nat Commun* **10**: 2798.
- Carpena-Torres C., Pintor J., Huete-Toral F., Rodríguez-Pomar C., Martínez-Águila A., y Carracedo G. (2020) Preclinical Development of Artificial Tears Based on an Extract of *Artemia Salina* Containing Dinucleotides in Rabbits. *Curr Eye Res* 1-5.
- Casarrubios L., Matesanz M.C., Sanchez-Salcedo S., Arcos D., Vallet-Regi M., y Portoles M.T. (2016) Nanocrystallinity effects on osteoblast and osteoclast response to silicon substituted hydroxyapatite. *Journal of Colloid and Interface Science* **482**: 112-20.
- Casarrubios L., Gomez-Cerezo N., Feito M.J., Vallet-Regi M., Arcos D., y Portoles M.T. (2018) Incorporation and effects of mesoporous SiO₂-CaO nanospheres loaded with ipriflavone on osteoblast/osteoclast cocultures. *European Journal of Pharmaceutics and Biopharmaceutics* **133**: 258-68.

- Casarrubios L., Gomez-Cerezo N., Feito M.J., Vallet-Regi M., Arcos D., y Portoles M.T. (2020) Ipriflavone-Loaded Mesoporous Nanospheres with Potential Applications for Periodontal Treatment. *Nanomaterials* **10**:
- Casarrubios L., Gomez-Cerezo N., Sanchez-Salcedo S., Feito M.J., Serrano M.C., Saiz-Pardo M., Ortega L., de Pablo D., Diaz-Guemes I., Fernandez-Tome B., Enciso S., Sanchez-Margallo F.M., Portoles M.T., Arcos D., y Vallet-Regi M. (2020) Silicon substituted hydroxyapatite/VEGF scaffolds stimulate bone regeneration in osteoporotic sheep. *Acta Biomaterialia* **101**: 544-53.
- Casarrubios L., Polo-Montalvo A., Serrano M.C., Feito M.J., Vallet-Regi M., Arcos D., y Portoles M.T. (2021) Effects of Ipriflavone-Loaded Mesoporous Nanospheres on the Differentiation of Endothelial Progenitor Cells and Their Modulation by Macrophages. *Nanomaterials* **11**:
- Castán A., Fernández-Calleja V., Hernández P., Krimer D.B., Schwartzman J.B., y Fernández-Nestosa M.J. (2017) Analysis of DNA topology of EBV minichromosomes in HEK 293 cells. *PLoS One* **12**: e0188172.
- Castán A., Hernández P., Krimer D.B., y Schwartzman J.B. (2017) The abundance of Fob1 modulates the efficiency of rRFBs to stall replication forks. *Nucleic Acids Res* **45**: 10089-102.
- Castán A., Hernández P., Krimer D.B., y Schwartzman J.B. (2018) DNA Catenation Reveals the Dynamics of DNA Topology During Replication. *Methods Mol Biol* **1703**: 75-86.
- Cebrián J., Castán A., Martinez V., Kadomatsu-Hermosa M.J., Parra C., Fernández-Nestosa M.J., Schaerer C., Hernández P., Krimer D.B., y Schwartzman J.B. (2015) Direct Evidence for the Formation of Precatenanes during DNA Replication. *J Biol Chem* **290**: 13725-35.
- Cicuendez M., Casarrubios L., Barroca N., Silva D., Feito M.J., Diez-Orejas R., Marques P.A.A.P., y Portoles M.T. (2021) Benefits in the Macrophage Response Due to Graphene Oxide Reduction by Thermal Treatment. *International Journal of Molecular Sciences* **22**:
- Cicuendez M., Casarrubios L., Feito M.J., Madarieta I., Garcia-Urkia N., Murua O., Olalde B., Briz N., Diez-Orejas R., y Portoles M.T. (2021) Candida albicans/Macrophage Biointerface on Human and Porcine Decellularized Adipose Matrices. *Journal of Fungi* **7**:
- Cicuendez M., Casarrubios L., Feito M.J., Madarieta I., Garcia-Urkia N., Murua O., Olalde B., Briz N., Diez-Orejas R., y Portoles M.T. (2021) Effects of Human and Porcine Adipose Extracellular Matrices Decellularized by Enzymatic or Chemical Methods on Macrophage Polarization and Immunocompetence. *International Journal of Molecular Sciences* **22**:
- Cirauqui C., Benito-Villalvilla C., Sanchez-Ramon S., Sirvent S., Diez-Rivero C.M., Conejero L., Brandi P., Hernandez-Cillero L., Ochoa J.L., Perez-Villamil B., Sancho D., Subiza J.L., y Palomares O. (2018) Human dendritic cells activated with MV130 induce Th1, Th17 and IL-10 responses via RIPK2 and MyD88 signalling pathways. *Eur J Immunol* **48**: 180-93.
- Cobo I., Martinelli P., Flandez M., Bakiri L., Zhang M., Carrillo-de-Santa-Pau E., Jia J., Sanchez-Arevalo Lobo V.J., Megias D., Felipe I., Del Pozo N., Millan I., Thommesen L., Bruland T., Olson S.H., Smith J., Schoonjans K., Bamlet W.R., Petersen G.M., Malats N., Amundadottir L.T., Wagner E.F., y Real F.X. (2018) Transcriptional regulation by NR5A2 links differentiation and inflammation in the pancreas. *Nature* **554**: 533-7.
- Colombo M., López-Perolio I., Meeks H.D., Caleca L., Parsons M.T., Li H., De Vecchi G., Tudini E., Foglia C., Mondini P., Manoukian S., Behar R., Garcia E.B.G., Meindl A., Montagna M., Niederacher D., Schmidt A.Y., Varesco L., Wappenschmidt B., Bolla M.K., Dennis J., Michailidou K., Wang Q., Aittomaki K., Andrulis I.L.,

Anton-Culver H., Arndt V., Beckmann M.W., Beeghly-Fadel A., Benítez J., Boeckx B., Bogdanova N.V., Bojesen S.E., Bonanni B., Brauch H., Brenner H., Burwinkel B., Chang-Claude J., Conroy D.M., Couch F.J., Cox A., Cross S.S., Czene K., Devilee P., Dork T., Eriksson M., Fasching P.A., Figueroa J., Fletcher O., Flyger H., Gabrielson M., Garcia-Closas M., Giles G.G., Gonzalez-Neira A., Guenel P., Haiman C.A., Hall P., Hamann U., Hartman M., Hauke J., Hollestelle A., Hopper J.L., Jakubowska A., Jung A., Kosma V.M., Lambrechts D., Le Marchand L., Lindblom A., Lubinski J., Mannermaa A., Margolin S., Miao H., Milne R.L., Neuhausen S.L., Nevanlinna H., Olson J.E., Peterlongo P., Peto J., Pylkas K., Sawyer E.J., Schmidt M.K., Schmutzler R.K., Schneeweiss A., Schoemaker M.J., See M.H., Southey M.C., Swerdlow A., Teo S.H., Toland A.E., Tomlinson I., Truong T., van Asperen C.J., van den Ouweland A.M.W., van der Kolk L.E., Winqvist R., Yannoukakos D., Zheng W., kConFab A.I., Dunning A.M., Easton D.F., Henderson A., Hogervorst F.B.L., Izatt L., Offitt K., Side L.E., van Rensburg E.J., Embrace S., Hebon S., McGuffog L., Antoniou A.C., Chenevix-Trench G., Spurdle A.B., Goldgar D.E., Hoya M., y Radice P. (2018) The BRCA2 c.68-7T > A variant is not pathogenic: A model for clinical calibration of spliceogenicity. *Hum Mutat* **39**: 729-41.

Connolly P., García-Carpio I., y Villunger A. (2020) Cell-Cycle Cross Talk with Caspases and Their Substrates. *Cold Spring Harb Perspect Biol* **12**:

Corbacho-Alonso N., Baldán-Martín M., López J.A., Rodríguez-Sánchez E., Martínez P.J., Mouriño-álvarez L., Martín-Rojas T., Sastre-Oliva T., Madruga F., Vázquez J., Padial L.R., Álvarez-Llamas G., Vivanco F., Ruiz-Hurtado G., Ruilope L.M., y Barderas M.G. (2020) Novel molecular plasma signatures on cardiovascular disease can stratify patients throughout life. *J Proteomics* **222**: 103816.

Cortes A.A., Diaz R.A., Hernandez-Campo P., Gorrochategui J., Primo D., Robles A., Morales M.L., Ballesteros J., Rapado I., Gallardo M., Linares M., y Martinez-Lopez J. (2019) Ruxolitinib in combination with prednisone and nilotinib exhibit synergistic effects in human cells lines and primary cells from myeloproliferative neoplasms. *Haematologica* **104**: 937-46.

Costas-Insua C., Merino-Gracia J., Aicart-Ramos C., y Rodriguez-Crespo I. (2018) Subcellular Targeting of Nitric Oxide Synthases Mediated by Their N-Terminal Motifs. *Adv Protein Chem Struct Biol* **111**: 165-95.

Costas-Insua C., Moreno E., Maroto I.B., Ruiz-Calvo A., Bajo-Graneras R., Martin-Gutierrez D., Diez-Alarcia R., Vilaro M.T., Cortes R., Garcia-Font N., Martin R., Espina M., Botta J., Gines S., McCormick P.J., Sanchez-Prieto J., Galve-Roperh I., Mengod G., Uriguen L., Marsicano G., Bellocchio L., Canela E.I., Casado V., Rodriguez-Crespo I., y Guzman M. (2021) Identification of BiP as a CB1 Receptor-Interacting Protein That Fine-Tunes Cannabinoid Signaling in the Mouse Brain. *J Neurosci* **41**: 7924-41.

Costas-Insua C., y Guzman M. (2022) Endocannabinoid signaling in glioma. *Glia*

Coya J.M., Fraile-Agreda V., de Tapia L., Garcia-Fojeda B., Saenz A., Bengoechea J.A., Kronqvist N., Johansson J., y Casals C. (2022) Cooperative action of SP-A and its trimeric recombinant fragment with polymyxins against Gram-negative respiratory bacteria. *Front Immunol* **13**: 927017.

Cuadrado C., Cheng H., Sanchiz A., Ballesteros I., Easson M., Grimm C.C., Diéguez M.C., Linacero R., Burbano C., y Maleki S.J. (2018) Influence of enzymatic hydrolysis on the allergenic reactivity of processed cashew and pistachio. *Food Chem* **241**: 372-9.

Cuadrado C., Sanchiz A., Vicente F., Ballesteros I., y Linacero R. (2020) Changes Induced by Pressure Processing on Immunoreactive Proteins of Tree Nuts. *Molecules* **25**:

Cuevas V.D., Simon-Fuentes M., Orta-Zavalza E., Samaniego R., Sanchez-Mateos P., Escribese M., Cimas F.J., Bustos M., Perez-Diego M., Ocana A., Dominguez-Soto A., Vega M.A., y Corbi A.L. (2022) The Gene Signature of Activated M-CSF-Primed Human Monocyte-Derived Macrophages Is IL-10-Dependent. *J Innate Immun* **14**: 243-56.

- Dahdouh E., Hajjar M., Suarez M., y Daoud Z. (2016) *Acinetobacter baumannii* Isolated from Lebanese Patients: Phenotypes and Genotypes of Resistance, Clonality, and Determinants of Pathogenicity. *Front Cell Infect Microbiol* **6**: 163.
- Dahdouh E., Gomez-Gil R., Pacho S., Mingorance J., Daoud Z., y Suarez M. (2017) Clonality, virulence determinants, and profiles of resistance of clinical *Acinetobacter baumannii* isolates obtained from a Spanish hospital. *PLoS One* **12**: e0176824.
- Dahdouh E., Gomez-Gil R., Sanz S., Gonzalez-Zorn B., Daoud Z., Mingorance J., y Suarez M. (2017) A novel mutation in *pmrB* mediates colistin resistance during therapy of *Acinetobacter baumannii*. *Int J Antimicrob Agents* **49**: 727-33.
- de Celis M., Serrano-Aguirre L., Belda I., Liebana-Garcia R., Arroyo M., Marquina D., de la Mata I., y Santos A. (2021) Acylase enzymes disrupting quorum sensing alter the transcriptome and phenotype of *Pseudomonas aeruginosa*, and the composition of bacterial biofilms from wastewater treatment plants. *Sci Total Environ* **799**: 149401.
- de Diego-Garcia L., Sebastian-Serrano A., Bianchi C., Di Lauro C., y Diaz-Hernandez M. (2020) ATP Measurement in Cerebrospinal Fluid Using a Microplate Reader. *Methods Mol Biol* **2041**: 233-41.
- de la Cuesta F., Baldán-Martín M., Mouriño-Álvarez L., Sastre-Oliva T., Álvarez-Llamas G., González-Calero L., Ruiz-Hurtado G., Segura J., Vivanco F., Ruilope L.M., y Barderas M.G. (2016) [Cardiovascular risk study in patients with renin-angiotensin system blockade by means of the proteome of circulating extracellular vesicles]. *Hipertens Riesgo Vasc* **33**: 21-7.
- de la Cuesta F., Baldán-Martín M., Moreno-Luna R., Álvarez-Llamas G., González-Calero L., Mouriño-Álvarez L., Sastre-Oliva T., López J.A., Vázquez J., Ruiz-Hurtado G., Segura J., Vivanco F., Ruilope L.M., y Barderas M.G. (2017) Kalirin and CHD7: novel endothelial dysfunction indicators in circulating extracellular vesicles from hypertensive patients with albuminuria. *Oncotarget* **8**: 15553-62.
- de León Reyes N.S., Mederos S., Varela I., Weiss L.A., Perea G., Galazo M.J., y Nieto M. (2019) Transient callosal projections of L4 neurons are eliminated for the acquisition of local connectivity. *Nat Commun* **10**: 4549.
- de Salas-Quiroga A., García-Rincón D., Gómez-Domínguez D., Valero M., Simón-Sánchez S., Paraíso-Luna J., Aguares J., Pujadas M., Muguruza C., Callado L.F., Lutz B., Guzmán M., de la Prida L.M., y Galve-Roperh I. (2020) Long-term hippocampal interneuronopathy drives sex-dimorphic spatial memory impairment induced by prenatal THC exposure. *Neuropsychopharmacology* **45**: 877-86.
- de Tapia L., Garcia-Fojeda B., Kronqvist N., Johansson J., y Casals C. (2022) The collectin SP-A and its trimeric recombinant fragment protect alveolar epithelial cells from the cytotoxic and proinflammatory effects of human cathelicidin in vitro. *Front Immunol* **13**: 994328.
- del Prado A., Franco-Echevarría E., González B., Blanco L., Salas M., y de Vega M. (2018) Noncatalytic aspartate at the exonuclease domain of proofreading DNA polymerases regulates both degradative and synthetic activities. *Proc Natl Acad Sci U S A* **115**: E2921-E9.
- Del Puerto-Nevado L., Santiago-Hernandez A., Solanes-Casado S., Gonzalez N., Ricote M., Corton M., Prieto I., Mas S., Sanz A.B., Aguilera O., Gomez-Guerrero C., Ayuso C., Ortiz A., Rojo F., Egido J., Garcia-Foncillas J., Minguez P., Alvarez-Llamas G., y DiabetesCancerConnect C. (2019) Diabetes-mediated promotion of colon mucosa carcinogenesis is associated with mitochondrial dysfunction. *Mol Oncol* **13**: 1887-97.

- Di Lauro C., Bianchi C., Sebastian-Serrano A., Soria-Tobar L., Alvarez-Castelao B., Nicke A., y Diaz-Hernandez M. (2022) P2X7 receptor blockade reduces tau induced toxicity, therapeutic implications in tauopathies. *Prog Neurobiol* **208**: 102173.
- Diaz-Moreno M., Hortiguela R., Goncalves A., Garcia-Carpio I., Manich G., Garcia-Bermudez E., Moreno-Estelles M., Eguiluz C., Vilaplana J., Pelegri C., Vilar M., y Mira H. (2013) Abeta increases neural stem cell activity in senescence-accelerated SAMP8 mice. *Neurobiol Aging* **34**: 2623-38.
- Diaz de la Guardia R., Lopez-Millan B., Lavoie J.R., Bueno C., Castano J., Gomez-Casares M., Vives S., Palomo L., Juan M., Delgado J., Blanco M.L., Nomdedeu J., Chaparro A., Fuster J.L., Anguita E., Rosu-Myles M., y Menendez P. (2017) Detailed Characterization of Mesenchymal Stem/Stromal Cells from a Large Cohort of AML Patients Demonstrates a Definitive Link to Treatment Outcomes. *Stem Cell Reports* **8**: 1573-86.
- Diez-Orejas R., Feito M.J., Cicuendez M., Casarrubios L., Rojo J.M., y Portoles M.T. (2018) Graphene oxide nanosheets increase *Candida albicans* killing by pro-inflammatory and reparative peritoneal macrophages. *Colloids and Surfaces B-Biointerfaces* **171**: 250-9.
- Diez-Orejas R., Casarrubios L., Feito M.J., Rojo J.M., Vallet-Regi M., Arcos D., y Portoles M.T. (2021) Effects of mesoporous SiO₂-CaO nanospheres on the murine peritoneal macrophages/*Candida albicans* interface. *International Immunopharmacology* **94**:
- Dik D.A., Batuecas M.T., Lee M., Mahasen K.V., Marous D.R., Lastochkin E., Fisher J.F., Hermoso J.A., y Mobashery S. (2018) A Structural Dissection of the Active Site of the Lytic Transglycosylase MltE from *Escherichia coli*. *Biochemistry* **57**: 6090-8.
- Dominguez-Mozo M.I., Rus M., Santiago J.L., Izquierdo G., Casanova I., Galan V., Garcia-Martinez M.A., Arias-Leal A.M., Garcia-Montojo M., Perez-Perez S., Arroyo R., y Alvarez-Lafuente R. (2017) Study of the anti-JCV antibody levels in a Spanish multiple sclerosis cohort. *Eur J Clin Invest* **47**: 158-66.
- Dominguez-Mozo M.I., Nieto-Guerrero A., Perez-Perez S., Garcia-Martinez M.A., Arroyo R., y Alvarez-Lafuente R. (2020) MicroRNAs of Human Herpesvirus 6A and 6B in Serum and Cerebrospinal Fluid of Multiple Sclerosis Patients. *Front Immunol* **11**: 2142.
- Dominguez-Mozo M.I., Perez-Perez S., Villar L.M., Oliver-Martos B., Villarrubia N., Matesanz F., Costa-Frossard L., Pinto-Medel M.J., Garcia-Sanchez M.I., Ortega-Madueno I., Lopez-Lozano L., Garcia-Martinez A., Izquierdo G., Fernandez O., Alvarez-Cermeno J.C., Arroyo R., y Alvarez-Lafuente R. (2020) Predictive factors and early biomarkers of response in multiple sclerosis patients treated with natalizumab. *Sci Rep* **10**: 14244.
- Dominguez-Soto A., Simon-Fuentes M., de Las Casas-Engel M., Cuevas V.D., Lopez-Bravo M., Dominguez-Andres J., Saz-Leal P., Sancho D., Ardavin C., Ochoa-Grullon J., Sanchez-Ramon S., Vega M.A., y Corbi A.L. (2018) IVIg Promote Cross-Tolerance against Inflammatory Stimuli In Vitro and In Vivo. *J Immunol* **201**: 41-52.
- Dongil P., Pérez-García A., Hurtado-Carneiro V., Herrero-de-Dios C., Blázquez E., Álvarez E., y Sanz C. (2018) Pas Kinase Deficiency Triggers Antioxidant Mechanisms in the Liver. *Sci Rep* **8**: 13810.
- Dongil P., Pérez-García A., Hurtado-Carneiro V., Herrero-de-Dios C., Álvarez E., y Sanz C. (2020) PAS kinase deficiency reduces aging effects in mice. *Aging (Albany NY)* **12**: 2275-301.
- Duarte S., Melo T., Domingues R., de Dios Alche J., y Pérez-Sala D. (2019) Insight into the cellular effects of nitrated phospholipids: Evidence for pleiotropic mechanisms of action. *Free Radic Biol Med* **144**: 192-202.

- Duarte S., Viedma-Poyatos A., Navarro-Carrasco E., Martínez A.E., Pajares M.A., y Pérez-Sala D. (2019) Vimentin filaments interact with the actin cortex in mitosis allowing normal cell division. *Nat Commun* **10**: 4200.
- El Assar M., Angulo J., Santos-Ruiz M., Moreno P., Novials A., Villanueva-Penacarrillo M.L., y Rodríguez-Mañas L. (2015) Differential effect of amylin on endothelial-dependent vasodilation in mesenteric arteries from control and insulin resistant rats. *PLoS One* **10**: e0120479.
- El Assar M., Angulo J., Santos-Ruiz M., Ruiz de Adana J.C., Pindado M.L., Sánchez-Ferrer A., Hernandez A., y Rodríguez-Mañas L. (2016) Asymmetric dimethylarginine (ADMA) elevation and arginase up-regulation contribute to endothelial dysfunction related to insulin resistance in rats and morbidly obese humans. *J Physiol* **594**: 3045-60.
- Escribano O., Beneit N., Rubio-Longas C., Lopez-Pastor A.R., y Gomez-Hernandez A. (2017) The Role of Insulin Receptor Isoforms in Diabetes and Its Metabolic and Vascular Complications. *Journal of Diabetes Research* **2017**:
- Espejo-Porras F., Fernández-Ruiz J., Pertwee R.G., Mechoulam R., y García C. (2013) Motor effects of the non-psychotropic phytocannabinoid cannabidiol that are mediated by 5-HT_{1A} receptors. *Neuropharmacology* **75**: 155-63.
- Espejo-Porras F., Piscitelli F., Verde R., Ramos J.A., Di Marzo V., de Lago E., y Fernández-Ruiz J. (2015) Changes in the endocannabinoid signaling system in CNS structures of TDP-43 transgenic mice: relevance for a neuroprotective therapy in TDP-43-related disorders. *J Neuroimmune Pharmacol* **10**: 233-44.
- Espejo-Porras F., Fernández-Ruiz J., y de Lago E. (2018) Analysis of endocannabinoid receptors and enzymes in the post-mortem motor cortex and spinal cord of amyotrophic lateral sclerosis patients. *Amyotroph Lateral Scler Frontotemporal Degener* **19**: 377-86.
- Espejo-Porras F., García-Toscano L., Rodríguez-Cueto C., Santos-García I., de Lago E., y Fernández-Ruiz J. (2019) Targeting glial cannabinoid CB₂ receptors to delay the progression of the pathological phenotype in TDP-43 (A315T) transgenic mice, a model of amyotrophic lateral sclerosis. *Br J Pharmacol* **176**: 1585-600.
- Espino-Paisan L., Agudo-Jimenez T., Rosales-Martinez I., Lopez-Cotarelo P., Garcia-Martinez M.A., Dominguez-Mozo M.I., Perez-Perez S., Dieli-Crimi R., Comabella M., Urcelay E., y Alvarez-Lafuente R. (2020) A Polymorphism Within the MBP Gene Is Associated With a Higher Relapse Number in Male Patients of Multiple Sclerosis. *Front Immunol* **11**: 771.
- Esteban-Martínez L., Villarejo-Zori B., y Boya P. (2017) Cytofluorometric Assessment of Mitophagic Flux in Mammalian Cells and Tissues. *Methods Enzymol* **588**: 209-17.
- Estevez-Gallego J., Josa-Prado F., Ku S., Buey R.M., Balaguer F.A., Prota A.E., Lucena-Agell D., Kamma-Lorger C., Yagi T., Iwamoto H., Duchesne L., Barasoain I., Steinmetz M.O., Chretien D., Kamimura S., Diaz J.F., y Oliva M.A. (2020) Structural model for differential cap maturation at growing microtubule ends. *Elife* **9**: e5055.
- Feito M.J., Diez-Orejas R., Cicuendez M., Casarrubios L., Rojo J.M., y Portoles M.T. (2019) Characterization of M1 and M2 polarization phenotypes in peritoneal macrophages after treatment with graphene oxide nanosheets. *Colloids and Surfaces B-Biointerfaces* **176**: 96-105.

- Feito M.J., Casarrubios L., Onaderra M., Gomez-Duro M., Arribas P., Polo-Montalvo A., Vallet-Regi M., Arcos D., y Portoles M.T. (2021) Response of RAW 264.7 and J774A.1 macrophages to particles and nanoparticles of a mesoporous bioactive glass: A comparative study. *Colloids and Surfaces B-Biointerfaces* **208**:
- Feito M.J., Cicuendez M., Casarrubios L., Diez-Orejas R., Fateixa S., Silva D., Barroca N., Marques P.A.A.P., y Portoles M.T. (2022) Effects of Graphene Oxide and Reduced Graphene Oxide Nanostructures on CD4(+) Th2 Lymphocytes. *International Journal of Molecular Sciences* **23**:
- Feliú A., Moreno-Martet M., Mecha M., Carrillo-Salinas F.J., de Lago E., Fernández-Ruiz J., y Guaza C. (2015) A Sativex((R)) -like combination of phytocannabinoids as a disease-modifying therapy in a viral model of multiple sclerosis. *Br J Pharmacol* **172**: 3579-95.
- Feliú A., Bonilla del Río I., Carrillo-Salinas F.J., Hernández-Torres G., Mestre L., Puente N., Ortega-Gutiérrez S., López-Rodríguez M.L., Grandes P., Mecha M., y Guaza C. (2017) 2-Arachidonoylglycerol Reduces Proteoglycans and Enhances Remyelination in a Progressive Model of Demyelination. *J Neurosci* **37**: 8385-98.
- Feliú A., Mestre L., Carrillo-Salinas F.J., Yong V.W., Mecha M., y Guaza C. (2020) 2-arachidonoylglycerol reduces chondroitin sulphate proteoglycan production by astrocytes and enhances oligodendrocyte differentiation under inhibitory conditions. *Glia* **68**: 1255-73.
- Fernández-Caballero T., Álvarez B., Alonso F., Revilla C., Martínez-Lobo J., Prieto C., Ezquerra A., y Domínguez J. (2018) Interaction of PRRS virus with bone marrow monocyte subsets. *Vet Microbiol* **219**: 123-7.
- Fernández-Caballero T., Álvarez B., Revilla C., Zaldívar-López S., Alonso F., Garrido J.J., Ezquerra A., y Domínguez J. (2018) Phenotypic and functional characterization of porcine bone marrow monocyte subsets. *Dev Comp Immunol* **81**: 95-104.
- Fernandez-Llamosas H., Ibero J., Thijs S., Imperato V., Vangronsveld J., Diaz E., y Carmona M. (2020) Enhancing the Rice Seedlings Growth Promotion Abilities of *Azoarcus* sp. CIB by Heterologous Expression of ACC Deaminase to Improve Performance of Plants Exposed to Cadmium Stress. *Microorganisms* **8**:
- Fernández-Trapero M., Espejo-Porras F., Rodriguez-Cueto C., Coates J.R., Pérez-Díaz C., de Lago E., y Fernández-Ruiz J. (2017) Upregulation of CB2 receptors in reactive astrocytes in canine degenerative myelopathy, a disease model of amyotrophic lateral sclerosis. *Dis Model Mech* **10**: 551-8.
- Fonseca B., Martínez-Águila A., Díaz-Hernández M., y Pintor J. (2015) Diadenosine tetraphosphate contributes to carbachol-induced tear secretion. *Purinergic Signal* **11**: 87-93.
- Fonseca B., Martínez-Águila A., de Lara M.J.P., y Pintor J. (2017) Diadenosine tetraphosphate as a potential therapeutic nucleotide to treat glaucoma. *Purinergic Signal* **13**: 171-7.
- Fonseca B., Martínez-Águila A., Pérez de Lara M.J., Miras-Portugal M.T., Gómez-Villafuertes R., y Pintor J. (2017) Changes in P2Y Purinergic Receptor Expression in the Ciliary Body in a Murine Model of Glaucoma. *Front Pharmacol* **8**: 719.
- Fraile-Ágreda V., Cañadas O., Weaver T.E., y Casals C. (2021) Synergistic Action of Antimicrobial Lung Proteins against *Klebsiella pneumoniae*. *Int J Mol Sci* **22**:
- Francistiova L., Bianchi C., Di Lauro C., Sebastian-Serrano A., de Diego-Garcia L., Kobolak J., Dinnyes A., y Diaz-Hernandez M. (2020) The Role of P2X7 Receptor in Alzheimer's Disease. *Front Mol Neurosci* **13**: 94.

- Franco-Echevarría E., Baños-Sanz J.I., Monterroso B., Round A., Sanz-Aparicio J., y González B. (2014) A new calmodulin-binding motif for inositol 1,4,5-trisphosphate 3-kinase regulation. *Biochem J* **463**: 319-28.
- Franco-Echevarría E., González-Polo N., Zorrilla S., Martínez-Lumbreras S., Santiveri C.M., Campos-Olivas R., Sánchez M., Calvo O., González B., y Pérez-Cañadillas J.M. (2017) The structure of transcription termination factor Nrd1 reveals an original mode for GUAA recognition. *Nucleic Acids Res* **45**: 10293-305.
- Franco-Echevarría E., Sanz-Aparicio J., Brearley C.A., González-Rubio J.M., y González B. (2017) The crystal structure of mammalian inositol 1,3,4,5,6-pentakisphosphate 2-kinase reveals a new zinc-binding site and key features for protein function. *J Biol Chem* **292**: 10534-48.
- Franco-Echevarría E., Sanz-Aparicio J., Troffer-Charlier N., Poterszman A., y González B. (2017) Crystallization and Preliminary X-Ray Diffraction Analysis of a Mammal Inositol 1,3,4,5,6-Pentakisphosphate 2-Kinase. *Protein J* **36**: 240-8.
- García-Fojeda B., Gonzalez-Carnicero Z., de Lorenzo A., Minutti C.M., de Tapia L., Euba B., Iglesias-Ceacero A., Castillo-Lluva S., Garmendia J., y Casals C. (2019) Lung Surfactant Lipids Provide Immune Protection Against Haemophilus influenzae Respiratory Infection. *Front Immunol* **10**: 458.
- García-Font N., Hayour H., Belfaitah A., Pedraz J., Moraleda I., Iriepa I., Bouraiou A., Chioua M., Marco-Contelles J., y Oset-Gasqué M.J. (2016) Potent anticholinesterasic and neuroprotective pyranotacrines as inhibitors of beta-amyloid aggregation, oxidative stress and tau-phosphorylation for Alzheimer's disease. *Eur J Med Chem* **118**: 178-92.
- García-Font N., Martín R., Torres M., Oset-Gasqué M.J., y Sánchez-Prieto J. (2019) The loss of beta adrenergic receptor mediated release potentiation in a mouse model of fragile X syndrome. *Neurobiol Dis* **130**: 104482.
- García-Gómez M., Calabria A., García-Bravo M., Benedicenti F., Kosinski P., López-Manzaneda S., Hill C., del Mar Manu-Pereira M., Martín M.A., Orman I., Vives-Corróns J.L., Kung C., Schambach A., Jin S., Bueren J.A., Montini E., Navarro S., y Segovia J.C. (2016) Safe and Efficient Gene Therapy for Pyruvate Kinase Deficiency. *Mol Ther* **24**: 1187-98.
- García-Linares S., Maula T., Rivera-de-Torre E., Gavilanes J.G., Slotte J.P., y Martínez-del-Pozo A. (2016) Role of the Tryptophan Residues in the Specific Interaction of the Sea Anemone Stichodactyla helianthus's Actinoporin Sticholysin II with Biological Membranes. *Biochemistry* **55**: 6406-20.
- García-Linares S., Rivera-de-Torre E., Morante K., Tsumoto K., Caaveiro J.M., Gavilanes J.G., Slotte J.P., y Martínez-del-Pozo A. (2016) Differential Effect of Membrane Composition on the Pore-Forming Ability of Four Different Sea Anemone Actinoporins. *Biochemistry* **55**: 6630-41.
- García-Mouton C., Hidalgo A., Cruz A., y Perez-Gil J. (2019) The Lord of the Lungs: The essential role of pulmonary surfactant upon inhalation of nanoparticles. *Eur J Pharm Biopharm* **144**: 230-43.
- García-Mouton C., Hidalgo A., Arroyo R., Echaide M., Cruz A., y Perez-Gil J. (2020) Pulmonary Surfactant and Drug Delivery: An Interface-Assisted Carrier to Deliver Surfactant Protein SP-D Into the Airways. *Front Bioeng Biotechnol* **8**: 613276.
- García-Mouton C., Parra-Ortiz E., Malmsten M., Cruz A., y Perez-Gil J. (2022) Pulmonary surfactant and drug delivery: vehiculization of a tryptophan-tagged antimicrobial peptide over the air-liquid interfacial highway. *Eur J Pharm Biopharm*

- García-Moutón C., Hidalgo A., Cruz A., y Pérez-Gil J. (2019) The Lord of the Lungs: The essential role of pulmonary surfactant upon inhalation of nanoparticles. *Eur J Pharm Biopharm* **144**: 230-43.
- García-Rincón D., Díaz-Alonso J., Paraíso-Luna J., Ortega Z., Agualeles J., de Salas-Quiroga A., Jou C., de Prada I., Martínez-Cerdeño V., Aronica E., Guzmán M., Pérez-Jiménez M.A., y Galve-Roperh I. (2018) Contribution of Altered Endocannabinoid System to Overactive mTORC1 Signaling in Focal Cortical Dysplasia. *Front Pharmacol* **9**: 1508.
- García-Soriano D.A., Heermann T., Raso A., Rivas G., y Schwille P. (2020) The speed of FtsZ treadmilling is tightly regulated by membrane binding. *Sci Rep* **10**: 10447.
- Garranzo-Asensio M., San Segundo-Acosta P., Martínez-Useros J., Montero-Calle A., Fernández-Acenero M.J., Haggmark-Manberg A., Peláez-García A., Villalba M., Rábano A., Nilsson P., y Barderas R. (2018) Identification of prefrontal cortex protein alterations in Alzheimer's disease. *Oncotarget* **9**: 10847-67.
- Garranzo-Asensio M., Guzmán-Aránguez A., Poves C., Fernández-Acenero M.J., Montero-Calle A., Cerón M.A., Fernández-Díez S., Rodríguez N., Gómez de Cedrón M., Ramírez de Molina A., Domínguez G., y Barderas R. (2019) The specific seroreactivity to Np73 isoforms shows higher diagnostic ability in colorectal cancer patients than the canonical p73 protein. *Sci Rep* **9**: 13547.
- Garranzo-Asensio M., Guzmán-Aránguez A., Povedano E., Ruiz-Valdepeñas Montiel V., Poves C., Fernández-Acenero M.J., Montero-Calle A., Solís-Fernández G., Fernández-Díez S., Camps J., Arenas M., Rodríguez-Tomas E., Joven J., Sánchez-Martínez M., Rodríguez N., Domínguez G., Yáñez-Sedeño P., Pingarrón J.M., Campuzano S., y Barderas R. (2020) Multiplexed monitoring of a novel autoantibody diagnostic signature of colorectal cancer using HaloTag technology-based electrochemical immunosensing platform. *Theranostics* **10**: 3022-34.
- Garranzo-Asensio M., San Segundo-Acosta P., Poves C., Fernández-Acenero M.J., Martínez-Useros J., Montero-Calle A., Solís-Fernández G., Sánchez-Martínez M., Rodríguez N., Cerón M.A., Fernández-Díez S., Domínguez G., de los Ríos V., Peláez-García A., Guzmán-Aránguez A., y Barderas R. (2020) Identification of tumor-associated antigens with diagnostic ability of colorectal cancer by in-depth immunomic and seroproteomic analysis. *J Proteomics* **214**: 103635.
- Gaudio A., García-Rozas P., Casarejos M.J., Pastor O., y Rodríguez-Navarro J.A. (2019) Lipidomic Alterations in the Mitochondria of Aged Parkin Null Mice Relevant to Autophagy. *Front Neurosci* **13**: 329.
- Gil-Redondo J.C., Iturri J., Ortega F., Perez-Sen R., Weber A., Miras-Portugal M.T., Toca-Herrera J.L., y Delicado E.G. (2021) Nucleotides-Induced Changes in the Mechanical Properties of Living Endothelial Cells and Astrocytes, Analyzed by Atomic Force Microscopy. *Int J Mol Sci* **22**: 624.
- Gimenez-Gomez P., Perez-Hernandez M., Gutierrez-Lopez M.D., Vidal R., Abuin-Martinez C., O'Shea E., y Colado M.I. (2018) Increasing kynurenine brain levels reduces ethanol consumption in mice by inhibiting dopamine release in nucleus accumbens. *Neuropharmacology* **135**: 581-91.
- Gimenez-Gomez P., Perez-Hernandez M., O'Shea E., Caso J.R., Martin-Hernandez D., Cervera L.A., Centelles M.L.G., Gutierrez-Lopez M.D., y Colado M.I. (2019) Changes in brain kynurenine levels via gut microbiota and gut-barrier disruption induced by chronic ethanol exposure in mice. *FASEB J* **33**: 12900-14.
- Gomez-Almeria M., Burgaz S., Costas-Insua C., Rodriguez-Cueto C., Santos-Garcia I., Rodriguez-Crespo I., Garcia C., Guzman M., de Lago E., y Fernandez-Ruiz J. (2021) BiP Heterozigosity Aggravates Pathological Deterioration in Experimental Amyotrophic Lateral Sclerosis. *Int J Mol Sci* **22**:

- Gomez-Cerezo N., Casarrubios L., Morales I., Feito M.J., Vallet-Regi M., Arcos D., y Portoles M.T. (2018) Effects of a mesoporous bioactive glass on osteoblasts, osteoclasts and macrophages. *Journal of Colloid and Interface Science* **528**: 309-20.
- Gomez-Cerezo N., Casarrubios L., Saiz-Pardo M., Ortega L., de Pablo D., Diaz-Guemes I., Fernandez-Tome B., Enciso S., Sanchez-Margallo F.M., Portoles M.T., Arcos D., y Vallet-Regi M. (2019) Mesoporous bioactive glass/epsilon-polycaprolactone scaffolds promote bone regeneration in osteoporotic sheep. *Acta Biomaterialia* **90**: 393-402.
- Gomez-Hernandez A., Lopez-Pastor A.R., Rubio-Longas C., Majewski P., Beneit N., Viana-Huete V., Garcia-Gomez G., Fernandez S., Hribal M.L., Sesti G., Escribano O., y Benito M. (2020) Specific knockout of p85 alpha in brown adipose tissue induces resistance to high-fat diet-induced obesity and its metabolic complications in male mice. *Molecular Metabolism* **31**: 1-13.
- Gomez-Hernandez A., de las Heras N., Lopez-Pastor A.R., Garcia-Gomez G., Infante-Menendez J., Gonzalez-Lopez P., Gonzalez-Illanes T., Lahera V., Benito M., y Escribano O. (2021) Severe Hepatic Insulin Resistance Induces Vascular Dysfunction: Improvement by Liver-Specific Insulin Receptor Isoform A Gene Therapy in a Murine Diabetic Model. *Cells* **10**:
- Gómez-Sintes R., Villarejo-Zori B., Serrano-Puebla A., Esteban-Martínez L., Sierra-Filardi E., Ramírez-Pardo I., Rodríguez-Muela N., y Boya P. (2017) Standard Assays for the Study of Autophagy in the Ex Vivo Retina. *Cells* **6**:
- Gonzalez-Calero L., Martin-Lorenzo M., Martinez P.J., Baldan-Martin M., Ruiz-Hurtado G., Segura J., de la Cuesta F., Barderas M.G., Ruilope L.M., Vivanco F., y Alvarez-Llamas G. (2016) Hypertensive patients exhibit an altered metabolism. A specific metabolite signature in urine is able to predict albuminuria progression. *Transl Res* **178**: 25-37 e7.
- Gonzalez-Calero L., Martinez P.J., Martin-Lorenzo M., Baldan-Martin M., Ruiz-Hurtado G., de la Cuesta F., Calvo E., Segura J., Lopez J.A., Vazquez J., Barderas M.G., Ruilope L.M., Vivanco F., y Alvarez-Llamas G. (2017) Urinary exosomes reveal protein signatures in hypertensive patients with albuminuria. *Oncotarget* **8**: 44217-31.
- Gonzalez-Fernandez R., Gonzalez-Nicolas M.A., Morales M., Avila J., Lazaro A., y Martin-Vasallo P. (2022) FKBP51, AmotL2 and IQGAP1 Involvement in Cilastatin Prevention of Cisplatin-Induced Tubular Nephrotoxicity in Rats. *Cells* **11**:
- Gonzalez-Lopez P., Ares-Carral C., Lopez-Pastor A.R., Infante-Menendez J., Illaness T.G., de Ceniga M.V., Esparza L., Beneit N., Martin-Ventura J.L., Escribano O., y Gomez-Hernandez A. (2022) Implication of miR-155-5p and miR-143-3p in the Vascular Insulin Resistance and Instability of Human and Experimental Atherosclerotic Plaque. *International Journal of Molecular Sciences* **23**:
- Gonzalez-Martinez J., Cwetsch A.W., Martinez-Alonso D., Lopez-Sainz L.R., Almagro J., Melati A., Gomez J., Perez-Martinez M., Megias D., Boskovic J., Gilabert-Juan J., Grana-Castro O., Pierani A., Behrens A., Ortega S., y Malumbres M. (2021) Deficient adaptation to centrosome duplication defects in neural progenitors causes microcephaly and subcortical heterotopias. *JCI Insight* **6**:
- Gonzalez-Martinez J., Cwetsch A.W., Gilabert-Juan J., Gomez J., Garaulet G., Schneider P., de Carcer G., Mulero F., Caleiras E., Megias D., Porlan E., y Malumbres M. (2022) Genetic interaction between PLK1 and downstream MCPH proteins in the control of centrosome asymmetry and cell fate during neural progenitor division. *Cell Death Differ* **29**: 1474-85.

- Gonzalez-Martinez J., y Malumbres M. (2022) Expanding the Differentiation Potential of Already-Established Pluripotent Stem Cells. *Methods Mol Biol* **2454**: 95-107.
- Gonzalez-Nicolas M.A., Gonzalez-Guerrero C., Perez-Fernandez V.A., y Lazaro A. (2020) Cilastatin: a potential treatment strategy against COVID-19 that may decrease viral replication and protect from the cytokine storm. *Clin Kidney J* **13**: 903-5.
- Gonzalez de la Aleja A., Herrero C., Torres-Torresano M., de la Rosa J.V., Alonso B., Capa-Sardon E., Muller I.B., Jansen G., Puig-Kroger A., Vega M.A., Castrillo A., y Corbi A.L. (2022) Activation of LXR Nuclear Receptors Impairs the Anti-Inflammatory Gene and Functional Profile of M-CSF-Dependent Human Monocyte-Derived Macrophages. *Front Immunol* **13**: 835478.
- González E., Herencias C., y Prieto M.A. (2020) A polyhydroxyalkanoate-based encapsulating strategy for 'bioplasticizing' microorganisms. *Microb Biotechnol* **13**: 185-98.
- Gonzalez N.A., Quintana J.A., Garcia-Silva S., Mazariegos M., Gonzalez de la Aleja A., Nicolas-Avila J.A., Walter W., Adrover J.M., Crainiciuc G., Kuchroo V.K., Rothlin C.V., Peinado H., Castrillo A., Ricote M., y Hidalgo A. (2017) Phagocytosis imprints heterogeneity in tissue-resident macrophages. *J Exp Med* **214**: 1281-96.
- Griesser E., Vemula V., Monico A., Perez-Sala D., y Fedorova M. (2021) Dynamic posttranslational modifications of cytoskeletal proteins unveil hot spots under nitroxidative stress. *Redox Biol* **44**: 102014.
- Herencias C., Salgado-Briegas S., Prieto M.A., y Nogales J. (2020) Providing new insights on the biphasic lifestyle of the predatory bacterium *Bdellovibrio bacteriovorus* through genome-scale metabolic modeling. *PLoS Comput Biol* **16**: e1007646.
- Hernandez-Álvarez E., Pérez-Barríos C., Blanco-Navarro I., Pérez-Sacristan B., Donoso-Navarro E., Silvestre R.A., y Granado-Lorencio F. (2019) Association between 25-OH-vitamin D and C-reactive protein as a marker of inflammation and cardiovascular risk in clinical practice. *Ann Clin Biochem* **56**: 502-7.
- Hernandez M.G., Aguilar A.G., Burillo J., Oca R.G., Manca M.A., Novials A., Alcarraz-Vizan G., Guillen C., y Benito M. (2018) Pancreatic beta cells overexpressing hIAPP impaired mitophagy and unbalanced mitochondrial dynamics. *Cell Death Dis* **9**: 481.
- Hidalgo A., Cruz A., y Pérez-Gil J. (2015) Barrier or carrier? Pulmonary surfactant and drug delivery. *Eur J Pharm Biopharm* **95**: 117-27.
- Hidalgo A., Cruz A., y Pérez-Gil J. (2017) Pulmonary surfactant and nanocarriers: Toxicity versus combined nanomedical applications. *Biochim Biophys Acta Biomembr* **1859**: 1740-8.
- Hidalgo A., Salomone F., Fresno N., Orellana G., Cruz A., y Pérez-Gil J. (2017) Efficient Interfacially Driven Vehiculization of Corticosteroids by Pulmonary Surfactant. *Langmuir* **33**: 7929-39.
- Hidalgo A., Garcia-Mouton C., Autilio C., Carravilla P., Orellana G., Islam M.N., Bhattacharya J., Bhattacharya S., Cruz A., y Perez-Gil J. (2021) Pulmonary surfactant and drug delivery: Vehiculization, release and targeting of surfactant/tacrolimus formulations. *J Control Release* **329**: 205-22.
- Ibero J., Galan B., Diaz E., y Garcia J.L. (2019) Testosterone Degradative Pathway of *Novosphingobium tardaugens*. *Genes (Basel)* **10**:
- Ibero J., Sanz D., Galan B., Diaz E., y Garcia J.L. (2019) High-Quality Whole-Genome Sequence of an Estradiol-Degrading Strain, *Novosphingobium tardaugens* NBRC 16725. *Microbiol Resour Announc* **8**:

- Ibero J., Galan B., Rivero-Buceta V., y Garcia J.L. (2020) Unraveling the 17beta-Estradiol Degradation Pathway in *Novosphingobium tardaugens* NBRC 16725. *Front Microbiol* **11**: 588300.
- Ibero J., Galan B., y Garcia J.L. (2021) Identification of the EcdR Estrogen-Dependent Repressor in *Caenibius tardaugens* NBRC 16725: Construction of a Cellular Estradiol Biosensor. *Genes (Basel)* **12**:
- Ibero J., Rivero-Buceta V., Garcia J.L., y Galan B. (2022) Polyhydroxyalkanoate Production by *Caenibius tardaugens* from Steroidal Endocrine Disruptors. *Microorganisms* **10**:
- Infante-Menendez J., Lopez-Pastor A.R., Gonzalez-Lopez P., Gomez-Hernandez A., y Escribano O. (2020) The Interplay between Oxidative Stress and miRNAs in Obesity-Associated Hepatic and Vascular Complications. *Antioxidants* **9**:
- Jado J.C., Humanes B., Gonzalez-Nicolas M.A., Camano S., Lara J.M., Lopez B., Cercenado E., Garcia-Bordas J., Tejedor A., y Lazaro A. (2020) Nephroprotective Effect of Cilastatin against Gentamicin-Induced Renal Injury In Vitro and In Vivo without Altering Its Bactericidal Efficiency. *Antioxidants (Basel)* **9**:
- Jaen M., Bartolome R.A., Aizpurua C., Martin-Regalado A., Imbaud J.I., y Casal J.I. (2021) Inhibition of Liver Metastasis in Colorectal Cancer by Targeting IL-13/IL13Ralpha2 Binding Site with Specific Monoclonal Antibodies. *Cancers (Basel)* **13**:
- Jaen M., Martin-Regalado A., Bartolome R.A., Robles J., y Casal J.I. (2022) Interleukin 13 receptor alpha 2 (IL13Ralpha2): Expression, signaling pathways and therapeutic applications in cancer. *Biochim Biophys Acta Rev Cancer* **1877**: 188802.
- Jimenez-Ortega E., Valenzuela S., Ramirez-Escudero M., Pastor F.J., y Sanz-Aparicio J. (2020) Structural analysis of the reducing-end xylose-releasing exo-oligoxylanase Rex8A from *Paenibacillus barcinonensis* BP-23 deciphers its molecular specificity. *FEBS J* **287**: 5362-74.
- Jiménez M., Martos A., Cabre E.J., Raso A., y Rivas G. (2013) Giant vesicles: a powerful tool to reconstruct bacterial division assemblies in cell-like compartments. *Environ Microbiol* **15**: 3158-68.
- Kalisz M., Bernardo E., Beucher A., Maestro M.A., Del Pozo N., Millan I., Haeberle L., Schlenzog M., Safi S.A., Knoefel W.T., Grau V., de Vas M., Shpargel K.B., Vaquero E., Magnuson T., Ortega S., Esposito I., Real F.X., y Ferrer J. (2020) HNF1A recruits KDM6A to activate differentiated acinar cell programs that suppress pancreatic cancer. *EMBO J* **39**: e102808.
- Kidibule P.E., Santos-Moriano P., Jimenez-Ortega E., Ramirez-Escudero M., Limon M.C., Remacha M., Plou F.J., Sanz-Aparicio J., y Fernandez-Lobato M. (2018) Use of chitin and chitosan to produce new chitooligosaccharides by chitinase Chit42: enzymatic activity and structural basis of protein specificity. *Microb Cell Fact* **17**: 47.
- Krupka M., Sobrinos-Sanguino M., Jiménez M., Rivas G., y Margolin W. (2018) *Escherichia coli* ZipA Organizes FtsZ Polymers into Dynamic Ring-Like Protofilament Structures. *mBio* **9**:
- Latorre A., Latorre A., Castellanos M., Rodriguez Diaz C., Lazaro-Carrillo A., Aguado T., Lecea M., Romero-Perez S., Calero M., Sanchez-Puelles J.M., Villanueva A., y Somoza A. (2019) Multifunctional Albumin-Stabilized Gold Nanoclusters for the Reduction of Cancer Stem Cells. *Cancers (Basel)* **11**:
- Latorre A., Latorre A., Castellanos M., Lafuente-Gomez N., Diaz C.R., Crespo-Barreda A., Lecea M., Cordani M., Martin-Duque P., y Somoza A. (2021) Albumin-based nanostructures for uveal melanoma treatment. *Nanomedicine* **35**: 102391.

- Lázaro-Gorines R., Ruiz-de-la-Herrán J., Navarro R., Sanz L., Álvarez-Vallina L., Martínez-del-Pozo A., Gavilanes J.G., y Lacadena J. (2019) A novel Carcinoembryonic Antigen (CEA)-Targeted Trimeric Immunotoxin shows significantly enhanced Antitumor Activity in Human Colorectal Cancer Xenografts. *Sci Rep* **9**: 11680.
- Lázaro-Gorines R., López-Rodríguez J.C., Benedé S., González M., Mayorga C., Vogel L., Martínez-del-Pozo A., Lacadena J., y Villalba M. (2020) Der p 1-based immunotoxin as potential tool for the treatment of dust mite respiratory allergy. *Sci Rep* **10**: 12255.
- Lee M., Batuecas M.T., Tomoshige S., Domínguez-Gil T., Mahasenan K.V., Dik D.A., Heseck D., Millan C., Uson I., Lastochkin E., Hermoso J.A., y Mobashery S. (2018) Exolytic and endolytic turnover of peptidoglycan by lytic transglycosylase Slt of *Pseudomonas aeruginosa*. *Proc Natl Acad Sci U S A* **115**: 4393-8.
- León-Otegui M., Gómez-Villafuertes R., Díaz-Hernández J.I., Díaz-Hernández M., Miras-Portugal M.T., y Gualix J. (2011) Opposite effects of P2X7 and P2Y2 nucleotide receptors on alpha-secretase-dependent APP processing in Neuro-2a cells. *FEBS Lett* **585**: 2255-62.
- Linacero R., Ballesteros I., Sanchiz A., Prieto N., Iniesto E., Martínez Y., Pedrosa M.M., Múzquiz M., Cabanillas B., Rovira M., Burbano C., y Cuadrado C. (2016) Detection by real time PCR of walnut allergen coding sequences in processed foods. *Food Chem* **202**: 334-40.
- Linacero R., Sanchiz A., Ballesteros I., y Cuadrado C. (2020) Application of real-time PCR for tree nut allergen detection in processed foods. *Crit Rev Food Sci Nutr* **60**: 1077-93.
- Linde D., Ayuso-Fernández I., Ruiz-Dueñas F.J., y Martínez A.T. (2019) Different fungal peroxidases oxidize nitrophenols at a surface catalytic tryptophan. *Arch Biochem Biophys* **668**: 23-8.
- Lodewijk I., Dueñas M., Rubio C., Munera-Maravilla E., Segovia C., Bernardini A., Teijeira A., Paramio J.M., y Suárez-Cabrera C. (2018) Liquid Biopsy Biomarkers in Bladder Cancer: A Current Need for Patient Diagnosis and Monitoring. *Int J Mol Sci* **19**:
- Lopez-Abente J., Benito-Villalvilla C., Jaumont X., Pfister P., Tassinari P., y Palomares O. (2021) Omalizumab restores the ability of human plasmacytoid dendritic cells to induce Foxp3(+)Tregs. *Eur Respir J* **57**:
- Lopez-Pastor A.R., Gomez-Hernandez A., Diaz-Castroverde S., Gonzalez-Aseguinolaza G., Gonzalez-Rodriguez A., Garcia G., Fernandez S., Escribano O., y Benito M. (2019) Liver-specific insulin receptor isoform A expression enhances hepatic glucose uptake and ameliorates liver steatosis in a mouse model of diet-induced obesity. *Disease Models & Mechanisms* **12**:
- Lopez-Pastor A.R., Gomez-Hernandez A., Rubio-Longas C., Majewski P., Beneit N., Viana-Huete V., Garcia-Gomez G., Fernandez S., Infante-Menendez J., Escribano O., y Benito M. (2019) Specific lack of p85alpha in brown adipose tissue triggers resistance to high-fat diet-induced obesity and improves the metabolic profile in mice. *Diabetologia* **62**: S324-S.
- Lopez-Pastor A.R., Infante-Menendez J., Escribano O., y Gomez-Hernandez A. (2020) miRNA Dysregulation in the Development of Non-Alcoholic Fatty Liver Disease and the Related Disorders Type 2 Diabetes Mellitus and Cardiovascular Disease. *Frontiers in Medicine* **7**:
- Lopez-Pastor A.R., y Infante-Menendez J. (2021) First person - Andrea R. Lopez-Pastor and Jorge Infante-Menendez. *Disease Models & Mechanisms* **14**:
- Lopez-Pastor A.R., Infante-Menendez J., Gonzalez-Illanes T., Gonzalez-Lopez P., Gonzalez-Rodriguez A., Garcia-Monzon C., de Ceniga M.V., Esparza L., Gomez-Hernandez A., y Escribano O. (2021) Concerted

regulation of non-alcoholic fatty liver disease progression by microRNAs in apolipoprotein E-deficient mice. *Disease Models & Mechanisms* **14**:

- López-Perolio I., Leman R., Behar R., Lattimore V., Pearson J.F., Castera L., Martins A., Vaur D., Goardon N., Davy G., Garre P., García-Barberán V., Llovet P., Pérez-Segura P., Díaz-Rubio E., Caldes T., Hruska K.S., Hsuan V., Wu S., Pesaran T., Karam R., Vallon-Christersson J., Borg A., kConFab I., Valenzuela-Palomo A., Velasco E.A., Southey M., Vreeswijk M.P.G., Devilee P., Kvist A., Spurdle A.B., Walker L.C., Krieger S., y de la Hoya M. (2019) Alternative splicing and ACMG-AMP-2015-based classification of PALB2 genetic variants: an ENIGMA report. *J Med Genet* **56**: 453-60.
- López-Rodríguez J.C., Barderas R., Echaide M., Pérez-Gil J., Villalba M., Batanero E., y Cruz A. (2016) Surface Activity as a Crucial Factor of the Biological Actions of Ole e 1, the Main Aeroallergen of Olive Tree (*Olea europaea*) Pollen. *Langmuir* **32**: 11055-62.
- López-Rodríguez J.C., Benedé S., Barderas R., Villalba M., y Batanero E. (2017) Airway Epithelium Plays a Leading Role in the Complex Framework Underlying Respiratory Allergy. *J Investig Allergol Clin Immunol* **27**: 346-55.
- López-Rodríguez J.C., Martínez-Carmona F.J., Rodríguez-Crespo I., Lizarbe M.A., y Turnay J. (2018) Molecular dissection of the membrane aggregation mechanisms induced by monomeric annexin A2. *Biochim Biophys Acta Mol Cell Res* **1865**: 863-73.
- López-Rodríguez J.C., Solís-Fernández G., Barderas R., Villalba M., y Batanero E. (2018) Effects of Ole e 1 on Human Bronchial Epithelial Cells Cultured at the Air-Liquid Interface. *J Investig Allergol Clin Immunol* **28**: 186-9.
- López-Rodríguez J.C., Manosalva J., Cabrera-García J.D., Escribese M.M., Villalba M., Barber D., Martínez-Ruiz A., y Batanero E. (2019) Human glutathione-S-transferase pi potentiates the cysteine-protease activity of the Der p 1 allergen from house dust mite through a cysteine redox mechanism. *Redox Biol* **26**: 101256.
- López-Rodríguez J.C., González M., Bogas G., Mayorga C., Villalba M., y Batanero E. (2020) Epithelial Permeability to Ole E 1 Is More Dependent on Functional Bronchial Epithelium-State than on Der P 1-Protease Activity That Acts As Adjuvant to the Bystander Allergen. *J Investig Allergol Clin Immunol* **30**: 101256.
- López-Valero I., Saiz-Ladera C., Torres S., Hernández-Tiedra S., García-Taboada E., Rodríguez-Fornes F., Barba M., Davila D., Salvador-Tormo N., Guzmán M., Sepulveda J.M., Sánchez-Gómez P., Lorente M., y Velasco G. (2018) Targeting Glioma Initiating Cells with A combined therapy of cannabinoids and temozolomide. *Biochem Pharmacol* **157**: 266-74.
- López-Valero I., Torres S., Salazar-Roa M., García-Taboada E., Hernández-Tiedra S., Guzmán M., Sepulveda J.M., Velasco G., y Lorente M. (2018) Optimization of a preclinical therapy of cannabinoids in combination with temozolomide against glioma. *Biochem Pharmacol* **157**: 275-84.
- López-Valero I., Davila D., González-Martínez J., Salvador-Tormo N., Lorente M., Saiz-Ladera C., Torres S., Gabicagogeascoa E., Hernández-Tiedra S., García-Taboada E., Mendiburu-Elicabe M., Rodríguez-Fornes F., Sánchez-Domínguez R., Segovia J.C., Sánchez-Gómez P., Matheu A., Sepulveda J.M., y Velasco G. (2020) Midkine signaling maintains the self-renewal and tumorigenic capacity of glioma initiating cells. *Theranostics* **10**: 5120-36.
- Lozano-Santos C., Martínez-Velásquez J., Fernández-Cuevas B., Polo N., Navarro B., Millán I., García J.M., Collado R., Sánchez-Godoy P., Carbonell F., García-Vela J.A., García-Marco J.A., y Gómez-Lozano N. (2014) Vascular endothelial growth factor A (VEGFA) gene polymorphisms have an impact on survival in a subgroup of indolent patients with chronic lymphocytic leukemia. *PLoS One* **9**: e101063.

- Lozano-Santos C., Amigo-Jiménez I., Nova-Gurumeta S., Pérez-Sanz N., García-Pardo A., y García-Marco J.A. (2015) Arsenic trioxide synergistically potentiates the cytotoxic effect of fludarabine in chronic lymphocytic leukemia cells by further inactivating the Akt and ERK signaling pathways. *Biochem Biophys Res Commun* **461**: 243-8.
- Lozano-Santos C., García-Vela J.A., Pérez-Sanz N., Nova-Gurumeta S., Fernández-Cuevas B., Gómez-Lozano N., Sánchez-Beato M., Sánchez-Godoy P., Bueno J.L., y García-Marco J.A. (2017) Biallelic ATM alterations detected at diagnosis identify a subset of treatment-naive chronic lymphocytic leukemia patients with reduced overall survival similar to patients with p53 deletion. *Leuk Lymphoma* **58**: 859-65.
- Maestro I., Boya P., y Martínez A. (2020) Serum- and glucocorticoid-induced kinase 1, a new therapeutic target for autophagy modulation in chronic diseases. *Expert Opin Ther Targets* **24**: 231-43.
- Maestro I., de la Ballina L.R., Simonsen A., Boya P., y Martínez A. (2021) Phenotypic Assay Leads to Discovery of Mitophagy Inducers with Therapeutic Potential for Parkinson's Disease. *ACS Chem Neurosci* **12**: 4512-23.
- Mahasenán K.V., Molina R., Bouley R., Batuecas M.T., Fisher J.F., Hermoso J.A., Chang M., y Mobashery S. (2017) Conformational Dynamics in Penicillin-Binding Protein 2a of Methicillin-Resistant *Staphylococcus aureus*, Allosteric Communication Network and Enablement of Catalysis. *J Am Chem Soc* **139**: 2102-10.
- Mahasenán K.V., Batuecas M.T., De Benedetti S., Kim C., Rana N., Lee M., Hesk D., Fisher J.F., Sanz-Aparicio J., Hermoso J.A., y Mobashery S. (2020) Catalytic Cycle of Glycoside Hydrolase BglX from *Pseudomonas aeruginosa* and Its Implications for Biofilm Formation. *ACS Chem Biol* **15**: 189-96.
- Manzano S., Gutierrez-Uzquiza A., Bragado P., Cuesta A.M., Guerrero C., y Porras A. (2021) C3G Protein, a New Player in Glioblastoma. *Int J Mol Sci* **22**:
- Manzano S., Gutierrez-Uzquiza A., Bragado P., Sequera C., Herranz O., Rodrigo-Faus M., Jauregui P., Morgner S., Rubio I., Guerrero C., y Porras A. (2021) C3G downregulation induces the acquisition of a mesenchymal phenotype that enhances aggressiveness of glioblastoma cells. *Cell Death Dis* **12**: 348.
- Marchena M., Villarejo-Zori B., Zaldívar-Díez J., Palomo V., Gil C., Hernández-Sánchez C., Martínez A., y de la Rosa E.J. (2017) Small molecules targeting glycogen synthase kinase 3 as potential drug candidates for the treatment of retinitis pigmentosa. *J Enzyme Inhib Med Chem* **32**: 522-6.
- Marques P., Kamitz A., Bartolome A., Burillo J., Martínez H., Jiménez B., Fernández-Rhodes M., Guillen C., y Benito M. (2019) Essential role of glucokinase in the protection of pancreatic beta cells to the glucose energetic status. *Cell Death Discov* **5**: 138.
- Martin-Cruz L., Sevilla-Ortega C., Benito-Villalvilla C., Díez-Rivero C.M., Sánchez-Ramón S., Subiza J.L., y Palomares O. (2020) A Combination of Polybacterial MV140 and *Candida albicans* V132 as a Potential Novel Trained Immunity-Based Vaccine for Genitourinary Tract Infections. *Front Immunol* **11**: 612269.
- Martin-Fontecha M., Angelina A., Ruckert B., Rueda-Zubiaurre A., Martin-Cruz L., van de Veen W., Akdis M., Ortega-Gutierrez S., Lopez-Rodriguez M.L., Akdis C.A., y Palomares O. (2018) A Fluorescent Probe to Unravel Functional Features of Cannabinoid Receptor CB1 in Human Blood and Tonsil Immune System Cells. *Bioconj Chem* **29**: 382-9.
- Martin-Lorenzo M., Gonzalez-Calero L., Martínez P.J., Baldan-Martin M., Lopez J.A., Ruiz-Hurtado G., de la Cuesta F., Segura J., Vazquez J., Vivanco F., Barderas M.G., Ruilope L.M., y Alvarez-Llamas G. (2017) Immune system deregulation in hypertensive patients chronically RAS suppressed developing albuminuria. *Sci Rep* **7**: 8894.

- Martin-Lorenzo M., Martinez P.J., Baldan-Martin M., Ruiz-Hurtado G., Prado J.C., Segura J., de la Cuesta F., Barderas M.G., Vivanco F., Ruilope L.M., y Alvarez-Llamas G. (2017) Citric Acid Metabolism in Resistant Hypertension: Underlying Mechanisms and Metabolic Prediction of Treatment Response. *Hypertension* **70**: 1049-56.
- Martin-Lorenzo M., Gonzalez-Calero L., Martinez P.J., Baldan-Martin M., Lopez J.A., Ruiz-Hurtado G., de la Cuesta F., Segura J., Vazquez J., Vivanco F., Barderas M.G., Ruilope L.M., y Alvarez-Llamas G. (2018) Author Correction: Immune system deregulation in hypertensive patients chronically RAS suppressed developing albuminuria. *Sci Rep* **8**: 4154.
- Martin-Lorenzo M., Martinez P.J., Baldan-Martin M., Lopez J.A., Minguez P., Santiago-Hernandez A., Vazquez J., Segura J., Ruiz-Hurtado G., Vivanco F., Barderas M.G., Ruilope L.M., y Alvarez-Llamas G. (2019) Urine Haptoglobin and Haptoglobin-Related Protein Predict Response to Spironolactone in Patients With Resistant Hypertension. *Hypertension* **73**: 794-802.
- Martín-Morales L., Feldman M., Vershinin Z., Garre P., Caldes T., y Levy D. (2017) SETD6 dominant negative mutation in familial colorectal cancer type X. *Hum Mol Genet* **26**: 4481-93.
- Martín-Morales L., Rofes P., Díaz-Rubio E., Llovet P., Lorca V., Bando I., Pérez-Segura P., de la Hoya M., Garré P., García-Barberán V., y Caldés T. (2018) Novel genetic mutations detected by multigene panel are associated with hereditary colorectal cancer predisposition. *PLoS One* **13**: e0203885.
- Martín-Morales L., Garre P., Lorca V., Cazorla M., Llovet P., Bando I., García-Barberán V., González-Morales M.L., Esteban-Jurado C., de la Hoya M., Castellví-Bel S., y Caldés T. (2020) BRIP1, a gene potentially implicated in Familial Colorectal Cancer Type X. *Cancer Prev Res (Phila)*
- Martín-Pedraza L., González M., Gómez F., Blanca-López N., Garrido-Arandia M., Rodríguez R., Torres M.J., Blanca M., Villalba M., y Mayorga C. (2016) Two nonspecific lipid transfer proteins (nsLTPs) from tomato seeds are associated to severe symptoms of tomato-allergic patients. *Mol Nutr Food Res* **60**: 1172-82.
- Martín-Pedraza L., Wangorsch A., Bueno-Díaz C., de las Heras M., Scheurer S., Cuesta-Herranz J., y Villalba M. (2020) 2S albumins and nsLTP are involved in anaphylaxis to pizza sauce: IgE recognition before and after allergen processing. *Food Chem* **321**: 126679.
- Martín R., García-Font N., Suárez-Pinilla A.S., Bartolomé-Martín D., Ferrero J.J., Luján R., Torres M., y Sánchez-Prieto J. (2020) beta-Adrenergic Receptors/Epac Signaling Increases the Size of the Readily Releasable Pool of Synaptic Vesicles Required for Parallel Fiber LTP. *J Neurosci* **40**: 8604-17.
- Martínez-Aguila A., Fonseca B., Pérez de Lara M.J., Miras-Portugal M.T., Gómez-Villafuertes R., Carracedo G., y Pintor J. (2020) Changes in melatonin receptor expression in a murine model of glaucoma. *Mol Vis* **26**: 530-9.
- Martínez-Águila A., Fonseca B., Bergua A., y Pintor J. (2013) Melatonin analogue agomelatine reduces rabbit's intraocular pressure in normotensive and hypertensive conditions. *Eur J Pharmacol* **701**: 213-7.
- Martínez-Águila A., Fonseca B., Hernández F., Díaz-Hernández M., Ávila J., y Pintor J. (2014) Tau triggers tear secretion by interacting with muscarinic acetylcholine receptors in New Zealand white rabbits. *J Alzheimers Dis* **40 Suppl 1**: S71-7.
- Martínez-Águila A., Fonseca B., Pérez de Lara M.J., y Pintor J. (2016) Effect of Melatonin and 5-Methoxycarbonylamino-N-Acetyltryptamine on the Intraocular Pressure of Normal and Glaucomatous Mice. *J Pharmacol Exp Ther* **357**: 293-9.

- Martínez-Bailen M., Jiménez-Ortega E., Carmona A.T., Robina I., Sanz-Aparicio J., Talens-Perales D., Polaina J., Matassini C., Cardona F., y Moreno-Vargas A.J. (2019) Structural basis of the inhibition of GH1 beta-glucosidases by multivalent pyrrolidine iminosugars. *Bioorg Chem* **89**: 103026.
- Martínez-Calle M., Olmeda B., Dietl P., Frick M., y Pérez-Gil J. (2018) Pulmonary surfactant protein SP-B promotes exocytosis of lamellar bodies in alveolar type II cells. *FASEB J* **32**: 4600-11.
- Martínez-Calle M., Alonso A., Pérez-Gil J., y Olmeda B. (2019) Native supramolecular protein complexes in pulmonary surfactant: Evidences for SP-A/SP-B interactions. *J Proteomics* **207**: 103466.
- Martínez-Calle M., Prieto M., Olmeda B., Fedorov A., Loura L.M.S., y Pérez-Gil J. (2020) Pulmonary surfactant protein SP-B nanorings induce the multilamellar organization of surfactant complexes. *Biochim Biophys Acta Biomembr* **1862**: 183216.
- Martínez-Fernández M., Rubio C., Segovia C., López-Calderón F.F., Dueñas M., y Paramio J.M. (2015) EZH2 in Bladder Cancer, a Promising Therapeutic Target. *Int J Mol Sci* **16**: 27107-32.
- Martínez-Frailes C., Di Lauro C., Bianchi C., de Diego-García L., Sebastian-Serrano A., Bosca L., y Díaz-Hernández M. (2019) Amyloid Peptide Induced Neuroinflammation Increases the P2X7 Receptor Expression in Microglial Cells, Impacting on Its Functionality. *Front Cell Neurosci* **13**: 143.
- Martínez P.J., Baldan-Martin M., Lopez J.A., Martín-Lorenzo M., Santiago-Hernández A., Agudiez M., Cabrera M., Calvo E., Vázquez J., Ruiz-Hurtado G., Vivanco F., Ruilope L.M., Barderas M.G., y Álvarez-Llamas G. (2019) Identification of six cardiovascular risk biomarkers in the young population: A promising tool for early prevention. *Atherosclerosis* **282**: 67-74.
- Martínez P.J., Agudiez M., Molero D., Martín-Lorenzo M., Baldan-Martin M., Santiago-Hernández A., García-Segura J.M., Madruga F., Cabrera M., Calvo E., Ruiz-Hurtado G., Barderas M.G., Vivanco F., Ruilope L.M., y Álvarez-Llamas G. (2020) Urinary metabolic signatures reflect cardiovascular risk in the young, middle-aged, and elderly populations. *J Mol Med (Berl)* **98**: 1603-13.
- Martínez P.J., Baldán-Martín M., López J.A., Martín-Lorenzo M., Santiago-Hernández A., Agudiez M., Cabrera M., Calvo E., Vázquez J., Ruiz-Hurtado G., Vivanco F., Ruilope L.M., Barderas M.G., y Álvarez-Llamas G. (2019) Identification of six cardiovascular risk biomarkers in the young population: A promising tool for early prevention. *Atherosclerosis* **282**: 67-74.
- Martínez V., Herencias C., Jurkevitch E., y Prieto M.A. (2016) Engineering a predatory bacterium as a proficient killer agent for intracellular bio-products recovery: The case of the polyhydroxyalkanoates. *Sci Rep* **6**: 24381.
- Martínez V.G., Rubio C., Martínez-Fernández M., Segovia C., López-Calderón F., Garín M.I., Teijeira A., Munera-Maravilla E., Varas A., Sacedón R., Guerrero F., Villacampa F., de la Rosa F., Castellano D., López-Collazo E., Paramio J.M., Vicente A., y Dueñas M. (2017) BMP4 Induces M2 Macrophage Polarization and Favors Tumor Progression in Bladder Cancer. *Clin Cancer Res* **23**: 7388-99.
- Martín T.F., Palomino O.M., Álvarez-Cilleros D., Martín M.A., Ramos S., y Goya L. (2020) Cocoa Flavanols Protect Human Endothelial Cells from Oxidative Stress. *Plant Foods Hum Nutr* **75**: 161-8.
- Martos A., Raso A., Jiménez M., Petršek Z., Rivas G., y Schwillle P. (2015) FtsZ Polymers Tethered to the Membrane by ZipA Are Susceptible to Spatial Regulation by Min Waves. *Biophys J* **108**: 2371-83.
- Mas S., Oeo-Santos C., Cuesta-Herranz J., Díaz-Perales A., Colas C., Fernández J., Barber D., Rodríguez R., de los Ríos V., Barderas R., y Villalba M. (2017) A relevant IgE-reactive 28kDa protein identified from Salsola

- kali pollen extract by proteomics is a natural degradation product of an integral 47kDa polygalacturonase. *Biochim Biophys Acta Proteins Proteom* **1865**: 1067-76.
- Mato A., Tarazona N.A., Hidalgo A., Cruz A., Jiménez M., Pérez-Gil J., y Prieto M.A. (2019) Interfacial Activity of Phasin PhaF from *Pseudomonas putida* KT2440 at Hydrophobic-Hydrophilic Biointerfaces. *Langmuir* **35**: 678-86.
- Mato A., Blanco F.G., Maestro B., Sanz J.M., Pérez-Gil J., y Prieto M.A. (2020) Dissecting the Polyhydroxyalkanoate-Binding Domain of the PhaF Phasin: Rational Design of a Minimized Affinity Tag. *Appl Environ Microbiol* **86**:
- Mecha M., Feliú A., Carrillo-Salinas F.J., Mestre L., y Guaza C. (2013) Mobilization of progenitors in the subventricular zone to undergo oligodendrogenesis in the Theiler's virus model of multiple sclerosis: implications for remyelination at lesions sites. *Exp Neurol* **250**: 348-52.
- Mecha M., Feliú A., Iñigo P.M., Mestre L., Carrillo-Salinas F.J., y Guaza C. (2013) Cannabidiol provides long-lasting protection against the deleterious effects of inflammation in a viral model of multiple sclerosis: a role for A2A receptors. *Neurobiol Dis* **59**: 141-50.
- Mecha M., Feliú A., Carrillo-Salinas F.J., Rueda-Zubiaurre A., Ortega-Gutiérrez S., de Sola R.G., y Guaza C. (2015) Endocannabinoids drive the acquisition of an alternative phenotype in microglia. *Brain Behav Immun* **49**: 233-45.
- Mecha M., Feliú A., Machín I., Cordero C., Carrillo-Salinas F., Mestre L., Hernández-Torres G., Ortega-Gutiérrez S., López-Rodríguez M.L., de Castro F., Clemente D., y Guaza C. (2018) 2-AG limits Theiler's virus induced acute neuroinflammation by modulating microglia and promoting MDSCs. *Glia* **66**: 1447-63.
- Mederos S., González-Arias C., y Perea G. (2018) Astrocyte-Neuron Networks: A Multilane Highway of Signaling for Homeostatic Brain Function. *Front Synaptic Neurosci* **10**: 45.
- Mederos S., Hernández-Vivanco A., Ramírez-Franco J., Martín-Fernández M., Navarrete M., Yang A., Boyden E.S., y Perea G. (2019) Melanopsin for precise optogenetic activation of astrocyte-neuron networks. *Glia* **67**: 915-34.
- Mederos S., y Perea G. (2019) Monitoring Interneuron-Astrocyte Signaling and Its Consequences on Synaptic Transmission. *Methods Mol Biol* **1938**: 117-29.
- Mederos S., y Perea G. (2019) GABAergic-astrocyte signaling: A refinement of inhibitory brain networks. *Glia* **67**: 1842-51.
- Mederos S., González-Arias C., y Perea G. (2020) Melanopsin for Time-Controlling Activation of Astrocyte - Neuron Networks. *Methods Mol Biol* **2173**: 53-69.
- Mendez-Barbero N., Yuste-Montalvo A., Nunez-Borque E., Jensen B.M., Gutierrez-Munoz C., Tome-Amat J., Garrido-Arandia M., Diaz-Perales A., Ballesteros-Martinez C., Laguna J.J., Beitia J.M., Poulsen L.K., Cuesta-Herranz J., Blanco-Colio L.M., y Esteban V. (2020) The TNF-like weak inducer of the apoptosis/fibroblast growth factor-inducible molecule 14 axis mediates histamine and platelet-activating factor-induced subcutaneous vascular leakage and anaphylactic shock. *J Allergy Clin Immunol* **145**: 583-96 e6.
- Mendez-Liter J.A., Tundidor I., Nieto-Dominguez M., de Toro B.F., Gonzalez Santana A., de Eugenio L.I., Prieto A., Asensio J.L., Canada F.J., Sanchez C., y Martinez M.J. (2019) Transglycosylation products generated by *Talaromyces amestolkiae* GH3 beta-glucosidases: effect of hydroxytyrosol, vanillin and its glucosides on breast cancer cells. *Microb Cell Fact* **18**: 97.

- Merino-Gracia J., Costas-Insua C., Canales M.A., y Rodriguez-Crespo I. (2016) Insights into the C-terminal Peptide Binding Specificity of the PDZ Domain of Neuronal Nitric-oxide Synthase: CHARACTERIZATION OF THE INTERACTION WITH THE TIGHT JUNCTION PROTEIN CLAUDIN-3. *J Biol Chem* **291**: 11581-95.
- Mezzina M.P., Manoli M.T., Prieto M.A., y Nikel P.I. (2021) Engineering Native and Synthetic Pathways in *Pseudomonas putida* for the Production of Tailored Polyhydroxyalkanoates. *Biotechnol J* **16**: e2000165.
- Miguez Amil S., Jimenez-Ortega E., Ramirez-Escudero M., Talens-Perales D., Marin-Navarro J., Polaina J., Sanz-Aparicio J., y Fernandez-Leiro R. (2020) The cryo-EM Structure of *Thermotoga maritima* beta-Galactosidase: Quaternary Structure Guides Protein Engineering. *ACS Chem Biol* **15**: 179-88.
- Miras-Portugal M.T., Queipo M.J., Gil-Redondo J.C., Ortega F., Gómez-Villafuertes R., Gualix J., Delicado E.G., y Pérez-Sen R. (2019) P2 receptor interaction and signalling cascades in neuroprotection. *Brain Res Bull* **151**: 74-83.
- Monico A., Martinez-Sendra E., Canada F.J., Zorrilla S., y Perez-Sala D. (2017) Drawbacks of Dialysis Procedures for Removal of EDTA. *PLoS One* **12**: e0169843.
- Monico A., Duarte S., Pajares M.A., y Pérez-Sala D. (2019) Vimentin disruption by lipoxidation and electrophiles: Role of the cysteine residue and filament dynamics. *Redox Biol* **23**: 101098.
- Monico A., Zorrilla S., Rivas G., y Perez-Sala D. (2020) Zinc Differentially Modulates the Assembly of Soluble and Polymerized Vimentin. *Int J Mol Sci* **21**:
- Monico A., Guzman-Caldentey J., Pajares M.A., Martin-Santamaria S., y Perez-Sala D. (2021) Molecular Insight into the Regulation of Vimentin by Cysteine Modifications and Zinc Binding. *Antioxidants (Basel)* **10**:
- Montero-Calle A., San Segundo-Acosta P., Garranzo-Asensio M., Rábano A., y Barderas R. (2020) The Molecular Misreading of APP and UBB Induces a Humoral Immune Response in Alzheimer's Disease Patients with Diagnostic Ability. *Mol Neurobiol* **57**: 1009-20.
- Monterroso B., Zorrilla S., Sobrinos-Sanguino M., Keating C.D., y Rivas G. (2016) Microenvironments created by liquid-liquid phase transition control the dynamic distribution of bacterial division FtsZ protein. *Sci Rep* **6**: 35140.
- Monterroso B., Zorrilla S., Sobrinos-Sanguino M., Robles-Ramos M.A., Alfonso C., Soderstrom B., Meiresonne N.Y., Verheul J., den Blaauwen T., y Rivas G. (2019) The Bacterial DNA Binding Protein MatP Involved in Linking the Nucleoid Terminal Domain to the Divisome at Midcell Interacts with Lipid Membranes. *mBio* **10**:
- Monterroso B., Zorrilla S., Sobrinos-Sanguino M., Robles-Ramos M.A., López-Álvarez M., Margolin W., Keating C.D., y Rivas G. (2019) Bacterial FtsZ protein forms phase-separated condensates with its nucleoid-associated inhibitor SlmA. *EMBO Rep* **20**:
- Montes-Casado M., Sanvicente A., Casarrubios L., Feito M.J., Rojo J.M., Vallet-Regi M., Arcos D., Portoles P., y Portoles M.T. (2020) An Immunological Approach to the Biocompatibility of Mesoporous SiO₂-CaO Nanospheres. *International Journal of Molecular Sciences* **21**:
- Morales-Puerto N., Gimenez-Gomez P., Perez-Hernandez M., Abuin-Martinez C., Gil de Biedma-Elduayen L., Vidal R., Gutierrez-Lopez M.D., O'Shea E., y Colado M.I. (2021) Addiction and the kynurenine pathway: A new dancing couple? *Pharmacol Ther* **223**: 107807.

- Morales M.L., Arenas A., Ortiz-Ruiz A., Leivas A., Rapado I., Rodriguez-Garcia A., Castro N., Zagorac I., Quintela-Fandino M., Gomez-Lopez G., Gallardo M., Ayala R., Linares M., y Martinez-Lopez J. (2019) MEK inhibition enhances the response to tyrosine kinase inhibitors in acute myeloid leukemia. *Sci Rep* **9**: 18630.
- Moreno-Ruperez A., Priego T., Gonzalez-Nicolas M.A., Lopez-Calderon A., Lazaro A., y Martin A.I. (2022) Role of Glucocorticoid Signaling and HDAC4 Activation in Diaphragm and Gastrocnemius Proteolytic Activity in Septic Rats. *Int J Mol Sci* **23**:
- Mouriño-Álvarez L., Baldán-Martín M., González-Calero L., Martínez-Laborde C., Sastre-Oliva T., Moreno-Luna R., López-Almodóvar L.F., Sánchez P.L., Fernández-Avilés F., Vivanco F., Padial L.R., Akerstrom F., Álvarez-Llamas G., de la Cuesta F., y Barderas M.G. (2016) Patients with calcific aortic stenosis exhibit systemic molecular evidence of ischemia, enhanced coagulation, oxidative stress and impaired cholesterol transport. *Int J Cardiol* **225**: 99-106.
- Mouriño-Álvarez L., Baldán-Martín M., Rincón R., Martín-Rojas T., Corbacho-Alonso N., Sastre-Oliva T., y Barderas M.G. (2017) Recent advances and clinical insights into the use of proteomics in the study of atherosclerosis. *Expert Rev Proteomics* **14**: 701-13.
- Mouriño-Álvarez L., Baldán-Martín M., Sastre-Oliva T., Martín-Lorenzo M., Maroto A.S., Corbacho-Alonso N., Rincón R., Martín-Rojas T., López-Almodóvar L.F., Álvarez-Llamas G., Vivanco F., Padial L.R., de la Cuesta F., y Barderas M.G. (2018) A comprehensive study of calcific aortic stenosis: from rabbit to human samples. *Dis Model Mech* **11**:
- Nadezhdin K.D., García-Carpio I., Goncharuk S.A., Mineev K.S., Arseniev A.S., y Vilar M. (2016) Structural Basis of p75 Transmembrane Domain Dimerization. *J Biol Chem* **291**: 12346-57.
- Nieto C., Rayo I., de las Casas-Engel M., Izquierdo E., Alonso B., Bechade C., Maroteaux L., Vega M.A., y Corbí A.L. (2020) Serotonin (5-HT) Shapes the Macrophage Gene Profile through the 5-HT_{2B}-Dependent Activation of the Aryl Hydrocarbon Receptor. *J Immunol* **204**: 2808-17.
- Oeo-Santos C., Mas S., Benedé S., López-Lucendo M., Quiralte J., Blanca M., Mayorga C., Villalba M., y Barderas R. (2018) A recombinant isoform of the Ole e 7 olive pollen allergen assembled by de novo mass spectrometry retains the allergenic ability of the natural allergen. *J Proteomics* **187**: 39-46.
- Oeo-Santos C., Mas S., Quiralte J., Colas C., Blanca M., Fernández J., Feo Brito F., Villalba M., y Barderas R. (2018) A Hypoallergenic Polygalacturonase Isoform from Olive Pollen Is Implicated in Pollen-Pollen Cross-Reactivity. *Int Arch Allergy Immunol* **177**: 290-301.
- Oeo-Santos C., Lopez-Rodriguez J.C., Garcia-Mouton C., San Segundo-Acosta P., Jurado A., Moreno-Aguilar C., Garcia-Alvarez B., Perez-Gil J., Villalba M., Barderas R., y Cruz A. (2020) Biophysical and biological impact on the structure and IgE-binding of the interaction of the olive pollen allergen Ole e 7 with lipids. *Biochim Biophys Acta Biomembr* **1862**: 183258.
- Oeo-Santos C., López-Rodríguez J.C., García-Moutón C., San Segundo-Acosta P., Jurado A., Moreno-Aguilar C., García-Álvarez B., Pérez-Gil J., Villalba M., Barderas R., y Cruz A. (2020) Biophysical and biological impact on the structure and IgE-binding of the interaction of the olive pollen allergen Ole e 7 with lipids. *Biochim Biophys Acta Biomembr* **1862**: 183258.
- Oeo-Santos C., Navas A., Benedé S., Ruiz-León B., Díaz-Perales A., Vogel L., Moreno-Aguilar C., Jurado A., Villalba M., y Barderas R. (2020) New insights into the sensitization to nonspecific lipid transfer proteins from pollen and food: New role of allergen Ole e 7. *Allergy* **75**: 798-807.

- Olmeda B., García-Álvarez B., Gómez M.J., Martínez-Calle M., Cruz A., y Pérez-Gil J. (2015) A model for the structure and mechanism of action of pulmonary surfactant protein B. *FASEB J* **29**: 4236-47.
- Olmeda B., Martínez-Calle M., y Pérez-Gil J. (2017) Pulmonary surfactant metabolism in the alveolar airspace: Biogenesis, extracellular conversions, recycling. *Ann Anat* **209**: 78-92.
- Olombrada M., Lázaro-Gorines R., López-Rodríguez J.C., Martínez-del-Pozo A., Oñaderra M., Maestro-López M., Lacadena J., Gavilanes J.G., y García-Ortega L. (2017) Fungal Ribotoxins: A Review of Potential Biotechnological Applications. *Toxins (Basel)* **9**:
- Ortiz-Ruiz A., Ruiz-Heredia Y., Morales M.L., Aguilar-Garrido P., Garcia-Ortiz A., Valeri A., Barcena C., Garcia-Martin R.M., Garrido V., Moreno L., Gimenez A., Navarro-Aguadero M.A., Velasco-Estevez M., Lospitao E., Cedena M.T., Barrio S., Martinez-Lopez J., Linares M., y Gallardo M. (2021) Myc-Related Mitochondrial Activity as a Novel Target for Multiple Myeloma. *Cancers (Basel)* **13**:
- Palacios-Ortega J., García-Linares S., Rivera-de-Torre E., Gavilanes J.G., Martínez-del-Pozo A., y Slotte J.P. (2017) Differential Effect of Bilayer Thickness on Sticholysin Activity. *Langmuir* **33**: 11018-27.
- Palacios-Ortega J., García-Linares S., Rivera-de-Torre E., Gavilanes J.G., Martínez-del-Pozo A., y Slotte J.P. (2019) Sticholysin, Sphingomyelin, and Cholesterol: A Closer Look at a Tripartite Interaction. *Biophys J* **116**: 2253-65.
- Palacios-Ortega J., Rivera-de-Torre E., Gavilanes J.G., Slotte J.P., y Martínez-del-Pozo A. (2020) Evaluation of different approaches used to study membrane permeabilization by actinoporins on model lipid vesicles. *Biochim Biophys Acta Biomembr* **1862**: 183311.
- Paniagua-Herranz L., Gil-Redondo J.C., Queipo M.J., González-Ramos S., Bosca L., Pérez-Sen R., Miras-Portugal M.T., y Delicado E.G. (2017) Prostaglandin E2 Impairs P2Y2/P2Y4 Receptor Signaling in Cerebellar Astrocytes via EP3 Receptors. *Front Pharmacol* **8**: 937.
- Paraiso-Luna J., Agualeles J., Martin R., Ayo-Martin A.C., Simon-Sanchez S., Garcia-Rincon D., Costas-Insua C., Garcia-Taboada E., de Salas-Quiroga A., Diaz-Alonso J., Liste I., Sanchez-Prieto J., Cappello S., Guzman M., y Galve-Roperh I. (2020) Endocannabinoid signalling in stem cells and cerebral organoids drives differentiation to deep layer projection neurons via CB1 receptors. *Development* **147**:
- Partida-Hanon A., Treviño M.A., Mompeán M., Jiménez M.A., y Bruix M. (2017) Structural insight into the XTACC3/XMAP215 interaction from CD and NMR studies on model peptides. *Biopolymers* **107**:
- Partida-Hanon A., Maestro-López M., Vitale S., Turra D., di Pietro A., Martínez-del-Pozo A., y Bruix M. (2020) Structure of Fungal alpha Mating Pheromone in Membrane Mimetics Suggests a Possible Role for Regulation at the Water-Membrane Interface. *Front Microbiol* **11**: 1090.
- Peltomaa R., López-Perolio I., Benito-Peña E., Barderas R., y Moreno-Bondi M.C. (2016) Application of bacteriophages in sensor development. *Anal Bioanal Chem* **408**: 1805-28.
- Perez-Barrios C., Hernández-Álvarez E., Blanco-Navarro I., Pérez-Sacristán B., y Granada-Lorencio F. (2016) Prevalence of hypercalcemia related to hypervitaminosis D in clinical practice. *Clin Nutr* **35**: 1354-8.
- Pérez-Barrios C., Nieto-Alcolado I., Torrente M., Jiménez-Sánchez C., Calvo V., Gutiérrez-Sanz L., Palka M., Donoso-Navarro E., Provencio M., y Romero A. (2016) Comparison of methods for circulating cell-free DNA isolation using blood from cancer patients: impact on biomarker testing. *Transl Lung Cancer Res* **5**: 665-72.

- Perez-García A., Hurtado-Carneiro V., Herrero-De-Dios C., Dongil P., Garcia-Maurino J.E., Sanchez M.D., Sanz C., y Alvarez E. (2021) Storage and Utilization of Glycogen by Mouse Liver during Adaptation to Nutritional Changes Are GLP-1 and PASK Dependent. *Nutrients* **13**:
- Pérez-García A., Dongil P., Hurtado-Carneiro V., Blázquez E., Sanz C., y Álvarez E. (2018) PAS Kinase deficiency alters the glucokinase function and hepatic metabolism. *Sci Rep* **8**: 11091.
- Pérez-García A., Dongil P., Hurtado-Carneiro V., Blázquez E., Sanz C., y Álvarez E. (2018) High-fat diet alters PAS kinase regulation by fasting and feeding in liver. *J Nutr Biochem* **57**: 14-25.
- Perez-Perez S., Dominguez-Mozo M.I., Garcia-Martinez M.A., Aladro Y., Martinez-Gines M., Garcia-Dominguez J.M., Lopez de Silanes C., Casanova I., Ortega-Madueno I., Lopez-Lozano L., Torrejon M.J., Arroyo R., y Alvarez-Lafuente R. (2018) Study of the possible link of 25-hydroxyvitamin D with Epstein-Barr virus and human herpesvirus 6 in patients with multiple sclerosis. *Eur J Neurol* **25**: 1446-53.
- Perez-Perez S., Eguia Del Rio P., Dominguez-Mozo M.I., Garcia-Martinez M.A., Zapata-Ramos M.F., Torrejon M.J., Arroyo R., y Alvarez-Lafuente R. (2019) Epidemiology of multiple sclerosis and vitamin D levels in Lanzarote, Canary Islands, Spain. *PeerJ* **7**: e8235.
- Perez-Perez S., Dominguez-Mozo M.I., Alonso-Gomez A., Medina S., Villarrubia N., Fernandez-Velasco J.I., Garcia-Martinez M.A., Garcia-Calvo E., Estevez H., Costa-Frossard L., Alvarez-Cermeno J.C., Luque-Garcia J.L., Arroyo R., Villar L.M., y Alvarez-Lafuente R. (2020) Acetate correlates with disability and immune response in multiple sclerosis. *PeerJ* **8**: e10220.
- Pérez-Ramos A., Mohedano M.L., Puertas A., Lamontanara A., Orru L., Spano G., Capozzi V., Dueñas M.T., y López P. (2016) Draft Genome Sequence of *Pediococcus parvulus* 2.6, a Probiotic beta-Glucan Producer Strain. *Genome Announc* **4**:
- Pérez-Ramos A., Mohedano M.L., López P., Spano G., Fiocco D., Russo P., y Capozzi V. (2017) In Situ beta-Glucan Fortification of Cereal-Based Matrices by *Pediococcus parvulus* 2.6: Technological Aspects and Prebiotic Potential. *Int J Mol Sci* **18**:
- Pérez-Ramos A., Mohedano M.L., Pardo M.A., y López P. (2018) beta-Glucan-Producing *Pediococcus parvulus* 2.6: Test of Probiotic and Immunomodulatory Properties in Zebrafish Models. *Front Microbiol* **9**: 1684.
- Pérez-Sen R., Queipo M.J., Morente V., Ortega F., Delicado E.G., y Miras-Portugal M.T. (2015) Neuroprotection Mediated by P2Y₁₃ Nucleotide Receptors in Neurons. *Comput Struct Biotechnol J* **13**: 160-8.
- Pérez-Sen R., Queipo M.J., Gil-Redondo J.C., Ortega F., Gómez-Villafuertes R., Miras-Portugal M.T., y Delicado E.G. (2019) Dual-Specificity Phosphatase Regulation in Neurons and Glial Cells. *Int J Mol Sci* **20**:
- Pino-Barrio M.J., Gimenez Y., Villanueva M., Hildenbeutel M., Sanchez-Dominguez R., Rodriguez-Perales S., Pujol R., Surralles J., Rio P., Cathomen T., Mussolino C., Bueren J.A., y Navarro S. (2020) TALEN mediated gene editing in a mouse model of Fanconi anemia. *Sci Rep* **10**: 6997.
- Platon-Corchado M., Barcelona P.F., Jmaeff S., Marchena M., Hernandez-Pinto A.M., Hernandez-Sanchez C., Saragovi H.U., y de la Rosa E.J. (2017) p75(NTR) antagonists attenuate photoreceptor cell loss in murine models of retinitis pigmentosa. *Cell Death Dis* **8**: e2922.
- Polo-Montalvo A., Casarrubios L., Serrano M.C., Sanvicente A., Feito M.J., Arcos D., y Portoles M.T. (2021) Effective Actions of Ion Release from Mesoporous Bioactive Glass and Macrophage Mediators on the Differentiation of Osteoprogenitor and Endothelial Progenitor Cells. *Pharmaceutics* **13**:

- Ponce-de-León M., Calle-Espinosa J., Peretó J., y Montero F. (2015) Consistency Analysis of Genome-Scale Models of Bacterial Metabolism: A Metamodel Approach. *PLoS One* **10**: e0143626.
- Ponce-de-León M., Tamarit D., Calle-Espinosa J., Mori M., Latorre A., Montero F., y Peretó J. (2017) Determinism and Contingency Shape Metabolic Complementation in an Endosymbiotic Consortium. *Front Microbiol* **8**: 2290.
- Provencio M., Pérez-Barrios C., Barquin M., Calvo V., Franco F., Sánchez E., Sánchez R., Marsden D., Cristobal Sánchez J., Martín Acosta P., Laza-Briviesca R., Cruz-Bermúdez A., y Romero A. (2020) Next-generation sequencing for tumor mutation quantification using liquid biopsies. *Clin Chem Lab Med* **58**: 306-13.
- Queipo M.J., Gil-Redondo J.C., Morente V., Ortega F., Miras-Portugal M.T., Delicado E.G., y Pérez-Sen R. (2017) P2X7 Nucleotide and EGF Receptors Exert Dual Modulation of the Dual-Specificity Phosphatase 6 (MKP-3) in Granule Neurons and Astrocytes, Contributing to Negative Feedback on ERK Signaling. *Front Mol Neurosci* **10**: 448.
- Quintanal-Villalonga A., Ojeda-Marquez L., Marrugal A., Yague P., Ponce-Aix S., Salinas A., Carnero A., Ferrer I., Molina-Pinelo S., y Paz-Ares L. (2018) The FGFR4-388arg Variant Promotes Lung Cancer Progression by N-Cadherin Induction. *Sci Rep* **8**: 2394.
- Quintanal-Villalonga A., Molina-Pinelo S., Yague P., Marrugal A., Ojeda-Marquez L., Suarez R., Ponce-Aix S., Enguita A.B., Carnero A., Ferrer I., y Paz-Ares L. (2019) FGFR4 increases EGFR oncogenic signaling in lung adenocarcinoma, and their combined inhibition is highly effective. *Lung Cancer* **131**: 112-21.
- Rampérez A., Sánchez-Prieto J., y Torres M. (2017) Brefeldin A sensitive mechanisms contribute to endocytotic membrane retrieval and vesicle recycling in cerebellar granule cells. *J Neurochem* **141**: 662-75.
- Rampérez A., Bartolomé-Martín D., García-Pascual A., Sánchez-Prieto J., y Torres M. (2019) Photoconversion of FM1-43 Reveals Differences in Synaptic Vesicle Recycling and Sensitivity to Pharmacological Disruption of Actin Dynamics in Individual Synapses. *ACS Chem Neurosci* **10**: 2045-59.
- Redondo N., Gómez-Martínez S., y Marcos A. (2014) Sensory attributes of soft drinks and their influence on consumers' preferences. *Food Funct* **5**: 1686-94.
- Redondo N., Nova E., Gheorghe A., Díaz L.E., Hernández A., y Marcos A. (2017) Erratum to: Evaluation of *Lactobacillus coryniformis* CECT5711 strain as a coadjuvant in a vaccination process: a randomised clinical trial in healthy adults. *Nutr Metab (Lond)* **14**: 40.
- Redondo N., Nova E., Gheorghe A., Díaz L.E., Hernández A., y Marcos A. (2017) Evaluation of *Lactobacillus coryniformis* CECT5711 strain as a coadjuvant in a vaccination process: a randomised clinical trial in healthy adults. *Nutr Metab (Lond)* **14**: 2.
- Redondo N., Nova E., Díaz-Prieto L.E., y Marcos A. (2018) Effects of moderate beer consumption on health. *Nutr Hosp* **35**: 41-4.
- Revelles O., Tarazona N., García J.L., y Prieto M.A. (2016) Carbon roadmap from syngas to polyhydroxyalkanoates in *Rhodospirillum rubrum*. *Environ Microbiol* **18**: 708-20.
- Rivera-de-Torre E., García-Linares S., Alegre-Cebollada J., Lacadena J., Gavilanes J.G., y Martínez-del-Pozo A. (2016) Synergistic Action of Actinoporin Isoforms from the Same Sea Anemone Species Assembled into Functionally Active Heteropores. *J Biol Chem* **291**: 14109-19.

- Rivera-de-Torre E., Palacios-Ortega J., García-Linares S., Gavilanes J.G., y Martínez-del-Pozo A. (2017) One single salt bridge explains the different cytolytic activities shown by actinoporins sticholysin I and II from the venom of *Stichodactyla helianthus*. *Arch Biochem Biophys* **636**: 79-89.
- Rivera-de-Torre E., Martínez-del-Pozo A., y Garb J.E. (2018) *Stichodactyla helianthus*' de novo transcriptome assembly: Discovery of a new actinoporin isoform. *Toxicon* **150**: 105-14.
- Rivera-de-Torre E., Palacios-Ortega J., Gavilanes J.G., Martínez-del-Pozo A., y García-Linares S. (2019) Pore-Forming Proteins from Cnidarians and Arachnids as Potential Biotechnological Tools. *Toxins (Basel)* **11**:
- Rivera-de-Torre E., Palacios-Ortega J., Garb J.E., Slotte J.P., Gavilanes J.G., y Martínez-del-Pozo (2020) Structural and functional characterization of sticholysin III: A newly discovered actinoporin within the venom of the sea anemone *Stichodactyla helianthus*. *Arch Biochem Biophys* **689**: 108435.
- Robles-Ramos M.A., Margolin W., Sobrinos-Sanguino M., Alfonso C., Rivas G., Monterroso B., y Zorrilla S. (2020) The Nucleoid Occlusion Protein SlmA Binds to Lipid Membranes. *mBio* **11**:
- Rodríguez-Cueto C., Santos-García I., García-Toscano L., Espejo-Porras F., Bellido M., Fernández-Ruiz J., Muñoz E., y de Lago E. (2018) Neuroprotective effects of the cannabigerol quinone derivative VCE-003.2 in SOD1(G93A) transgenic mice, an experimental model of amyotrophic lateral sclerosis. *Biochem Pharmacol* **157**: 217-26.
- Rodríguez-Cueto C., García-Toscano L., Santos-García I., Gómez-Almería M., Gonzalo-Consuegra C., Espejo-Porras F., Fernández-Ruiz J., y de Lago E. (2021) Targeting the CB2 receptor and other endocannabinoid elements to delay disease progression in amyotrophic lateral sclerosis. *Br J Pharmacol* **178**: 1373-87.
- Rodríguez-García A., Morales M.L., Garrido-García V., García-Baquero I., Leivas A., Carreno-Tarragona G., Sánchez R., Arenas A., Cedena T., Ayala R.M., Bautista J.M., Martínez-López J., y Linares M. (2019) Protein Carbonylation in Patients with Myelodysplastic Syndrome: An Opportunity for Deferasirox Therapy. *Antioxidants (Basel)* **8**:
- Rodríguez-García A., García-Vicente R., Morales M.L., Ortiz-Ruiz A., Martínez-López J., y Linares M. (2020) Protein Carbonylation and Lipid Peroxidation in Hematological Malignancies. *Antioxidants (Basel)* **9**:
- Rodríguez-García A., Linares M., Morales M.L., Allain-Maillet S., Mennesson N., Sánchez R., Alonso R., Leivas A., Pérez-Rivilla A., Bigot-Corbel E., Hermouet S., y Martínez-López J. (2021) Efficacy of Antiviral Treatment in Hepatitis C Virus (HCV)-Driven Monoclonal Gammopathies Including Myeloma. *Front Immunol* **12**: 797209.
- Rodríguez-Muela N., Hernández-Pinto A.M., Serrano-Puebla A., García-Ledo L., Latorre S.H., de la Rosa E.J., y Boya P. (2015) Lysosomal membrane permeabilization and autophagy blockade contribute to photoreceptor cell death in a mouse model of retinitis pigmentosa. *Cell Death Differ* **22**: 476-87.
- Romero A., García-García F., López-Perolio I., Ruiz de Garibay G., García-Sáenz J.A., Garré P., Ayllón P., Benito E., Dopazo J., Díaz-Rubio E., Caldés T., y de la Hoya M. (2015) BRCA1 Alternative splicing landscape in breast tissue samples. *BMC Cancer* **15**: 219.
- Rosignol I., Villarejo-Zori B., Teresak P., Sierra-Filardi E., Pereiro X., Rodríguez-Muela N., Vecino E., Vieira H.L.A., Bell K., y Boya P. (2020) The mito-QC Reporter for Quantitative Mitophagy Assessment in Primary Retinal Ganglion Cells and Experimental Glaucoma Models. *Int J Mol Sci* **21**:

- Rosignol I., Villarejo-Zori B., Teresak P., Sierra-Filardi E., Pereiro X., Rodríguez-Muela N., Vecino E., Vieira H.L.A., Bell K., y Boya P. (2020) The mito-QC Reporter for Quantitative Mitophagy Assessment in Primary Retinal Ganglion Cells and Experimental Glaucoma Models. *Int J Mol Sci* **21**:
- Roth-Walter F., Adcock I.M., Benito-Villalvilla C., Bianchini R., Bjermer L., Caramori G., Cari L., Chung K.F., Diamant Z., Eguiluz-Gracia I., Knol E.F., Kolios A.G.A., Levi-Schaffer F., Nocentini G., Palomares O., Puzzovio P.G., Redegeld F.A., van Esch B., y Stellato C. (2019) Comparing biologicals and small molecule drug therapies for chronic respiratory diseases: An EAACI Taskforce on Immunopharmacology position paper. *Allergy* **74**: 432-48.
- Roth-Walter F., Adcock I.M., Benito-Villalvilla C., Bianchini R., Bjermer L., Boyman O., Caramori G., Cari L., Fan Chung K., Diamant Z., Eguiluz-Gracia I., Knol E.F., Kolios A., Levi-Schaffer F., Nocentini G., Palomares O., Redegeld F., Van Esch B., y Stellato C. (2021) Immune modulation via T regulatory cell enhancement: Disease-modifying therapies for autoimmunity and their potential for chronic allergic and inflammatory diseases-An EAACI position paper of the Task Force on Immunopharmacology (TIPCO). *Allergy* **76**: 90-113.
- Rubio C., Martínez-Fernández M., Segovia C., Lodewijk I., Suárez-Cabrera C., Segrelles C., López-Calderón F., Munera-Maravilla E., Santos M., Bernardini A., García-Escudero R., Lorz C., Gómez-Rodríguez M.J., de Velasco G., Otero I., Villacampa F., Guerrero-Ramos F., Ruiz S., de la Rosa F., Domínguez-Rodríguez S., Real F.X., Malats N., Castellano D., Dueñas M., y Paramio J.M. (2019) CDK4/6 Inhibitor as a Novel Therapeutic Approach for Advanced Bladder Cancer Independently of RB1 Status. *Clin Cancer Res* **25**: 390-402.
- Rubio C., Munera-Maravilla E., Lodewijk I., Suárez-Cabrera C., Karaivanova V., Ruiz-Palomares R., Paramio J.M., y Dueñas M. (2019) Macrophage polarization as a novel weapon in conditioning tumor microenvironment for bladder cancer: can we turn demons into gods? *Clin Transl Oncol* **21**: 391-403.
- Ruiz-de-la-Herrán J., Tomé-Amat J., Lázaro-Gorines R., Gavilanes J.G., y Lacadena J. (2019) Inclusion of a Furin Cleavage Site Enhances Antitumor Efficacy against Colorectal Cancer Cells of Ribotoxin alpha-Sarcin- or RNase T1-Based Immunotoxins. *Toxins (Basel)* **11**:
- San Segundo-Acosta P., Garranzo-Asensio M., Oeo-Santos C., Montero-Calle A., Quiralte J., Cuesta-Herranz J., Villalba M., y Barderas R. (2018) High-throughput screening of T7 phage display and protein microarrays as a methodological approach for the identification of IgE-reactive components. *J Immunol Methods* **456**: 44-53.
- San Segundo-Acosta P., Montero-Calle A., Fuentes M., Rábano A., Villalba M., y Barderas R. (2019) Identification of Alzheimer's Disease Autoantibodies and Their Target Biomarkers by Phage Microarrays. *J Proteome Res* **18**: 2940-53.
- San Segundo-Acosta P., Oeo-Santos C., Benede S., de los Ríos V., Navas A., Ruiz-León B., Moreno C., Pastor-Vargas C., Jurado A., Villalba M., y Barderas R. (2019) Delineation of the Olive Pollen Proteome and Its Allergenome Unmasks Cyclophilin as a Relevant Cross-Reactive Allergen. *J Proteome Res* **18**: 3052-66.
- San Segundo-Acosta P., Oeo-Santos C., Navas A., Jurado A., Villalba M., y Barderas R. (2019) Ole e 15 and its human counterpart -PPIA- chimeras reveal an heterogeneous IgE response in olive pollen allergic patients. *Sci Rep* **9**: 15027.
- Sanchez-Cruz A., Villarejo-Zori B., Marchena M., Zaldívar-Díez J., Palomo V., Gil C., Lizasoain I., de la Villa P., Martínez A., de la Rosa E.J., y Hernández-Sánchez C. (2018) Modulation of GSK-3 provides cellular and functional neuroprotection in the rd10 mouse model of retinitis pigmentosa. *Mol Neurodegener* **13**: 19.

- Sanchez A., Anguita E., Chaparro A., Roldan-Etcheverry J.J., Lopez-Garcia A., Ramos-Acosta C., Oancea R., Rodriguez-Munoz D., y Alemany S. (2020) Abnormal Dendritic Cell-poiesis in Patients With Lower-risk Myelodysplastic Syndromes. *Hemasphere* **4**: e335.
- Sánchez Pérez E., y Garutti Martínez I. (2010) [Hypotensive resuscitation of the polytrauma patient with hemorrhagic shock]. *Rev Esp Anesthesiol Reanim* **57**: 648-55.
- Sanchiz A., Cuadrado C., Diéguez M.C., Ballesteros I., Rodríguez J., Crespo J.F., de Las Cuevas N., Rueda J., Linacero R., Cabanillas B., y Novak N. (2018) Thermal processing effects on the IgE-reactivity of cashew and pistachio. *Food Chem* **245**: 595-602.
- Sanchiz A., Cuadrado C., Haddad J., y Linacero R. (2020) Effect of Instant Controlled Pressure Drop (DIC) Treatment on the Detection of Nut Allergens by Real Time PCR. *Foods* **9**:
- Santiago-Hernandez A., Martinez P.J., Martin-Lorenzo M., Ruiz-Hurtado G., M G.B., Segura J., Ruilope L.M., y Alvarez-Llamas G. (2020) Differential metabolic profile associated with the condition of normoalbuminuria in the hypertensive population. *Nefrologia (Engl Ed)* **40**: 440-5.
- Santiago-Hernandez A., Martin-Lorenzo M., Martin-Blazquez A., Ruiz-Hurtado G., Barderas M.G., Segura J., Ruilope L.M., y Alvarez-Llamas G. (2021) TCA Cycle and Fatty Acids Oxidation Reflect Early Cardiorenal Damage in Normoalbuminuric Subjects with Controlled Hypertension. *Antioxidants (Basel)* **10**:
- Santiago-Hernandez A., Martin-Lorenzo M., Martinez P.J., Gomez-Serrano M., Lopez J.A., Cannata P., Esteban V., Heredero A., Aldamiz-Echevarria G., Vazquez J., Ruiz-Hurtado G., Barderas M.G., Segura J., Ruilope L.M., y Alvarez-Llamas G. (2021) Early renal and vascular damage within the normoalbuminuria condition. *J Hypertens* **39**: 2220-31.
- Santiago-Hernandez A., Martinez P.J., Agudiez M., Heredero A., Gonzalez-Calero L., Yuste-Montalvo A., Esteban V., Aldamiz-Echevarria G., Martin-Lorenzo M., y Alvarez-Llamas G. (2021) Metabolic Alterations Identified in Urine, Plasma and Aortic Smooth Muscle Cells Reflect Cardiovascular Risk in Patients with Programmed Coronary Artery Bypass Grafting. *Antioxidants (Basel)* **10**:
- Santos-Coquillat A., Esteban-Lucía M., Martínez-Campos E., Mohedano M., Arrabal R., Blawert C., Zheludkevich M.L., y Matykina E. (2019) PEO coatings design for Mg-Ca alloy for cardiovascular stent and bone regeneration applications. *Mater Sci Eng C Mater Biol Appl* **105**: 110026.
- Santos-Coquillat A., Martínez-Campos E., Vargas-Alfredo N., Arrabal R., Rodríguez-Hernández J., y Matykina E. (2019) Hierarchical Functionalized Polymeric-Ceramic Coatings on Mg-Ca Alloys for Biodegradable Implant Applications. *Macromol Biosci* **19**: e1900179.
- Santos-Coquillat A., Mohedano M., Martínez-Campos E., Arrabal R., Pardo A., y Matykina E. (2019) Bioactive multi-elemental PEO-coatings on titanium for dental implant applications. *Mater Sci Eng C Mater Biol Appl* **97**: 738-52.
- Sebastian-Serrano A., de Diego-Garcia L., di Lauro C., Bianchi C., y Diaz-Hernandez M. (2019) Nucleotides regulate the common molecular mechanisms that underlie neurodegenerative diseases; Therapeutic implications. *Brain Res Bull* **151**: 84-91.
- Sebastian-Serrano A., Bianchi C., Di Lauro C., Soria-Tobar L., Alvarez-Castelao B., y Diaz-Hernandez M. (2022) Studying the Role of P2X7 Receptor in Axonal Growth Using In Utero Electroporation Technique. *Methods Mol Biol* **2510**: 355-66.

- Sebastian-Serrano A., Merchan-Rubira J., Di Lauro C., Bianchi C., Soria-Tobar L., Narisawa S., Millan J.L., Avila J., Hernandez F., y Diaz-Hernandez M. (2022) TNAP upregulation is a critical factor in Tauopathies and its blockade ameliorates neurotoxicity and increases life-expectancy. *Neurobiol Dis* **165**: 105632.
- Sequera C., Manzano S., Guerrero C., y Porras A. (2018) How Rap and its GEFs control liver physiology and cancer development. C3G alterations in human hepatocarcinoma. *Hepat Oncol* **5**: HEP05.
- Sequera C., Vázquez-Carballo A., Arechederra M., Fernández-Veledo S., y Porras A. (2018) TWEAK promotes migration and invasion in MEFs through a mechanism dependent on ERKs activation and Fibulin 3 down-regulation. *J Cell Physiol* **233**: 968-78.
- Sequera C., Bragado P., Manzano S., Arechederra M., Richelme S., Gutiérrez-Uzquiza A., Sánchez A., Maina F., Guerrero C., y Porras A. (2020) C3G Is Upregulated in Hepatocarcinoma, Contributing to Tumor Growth and Progression and to HGF/MET Pathway Activation. *Cancers (Basel)* **12**: 2282.
- Serrano-Aguirre L., Velasco-Bucheli R., Garcia-Alvarez B., Saborido A., Arroyo M., y de la Mata I. (2021) Novel Bifunctional Acylase from *Actinoplanes utahensis*: A Versatile Enzyme to Synthesize Antimicrobial Compounds and Use in Quorum Quenching Processes. *Antibiotics (Basel)* **10**:
- Serrano-Puebla A., y Boya P. (2016) Lysosomal membrane permeabilization in cell death: new evidence and implications for health and disease. *Ann N Y Acad Sci* **1371**: 30-44.
- Serrano-Puebla A., y Boya P. (2018) Lysosomal membrane permeabilization as a cell death mechanism in cancer cells. *Biochem Soc Trans* **46**: 207-15.
- Sevilla-Movilla S., Arellano-Sánchez N., Martínez-Moreno M., Gajate C., Sánchez-Vencells A., Valcarcel L.V., Agirre X., Valeri A., Martínez-López J., Prosper F., Mollinedo F., y Teixidó J. (2020) Upregulated expression and function of the alpha4beta1 integrin in multiple myeloma cells resistant to bortezomib. *J Pathol*
- Simon-Fuentes M., Sanchez-Ramon S., Fernandez-Paredes L., Alonso B., Guevara-Hoyer K., Vega M.A., Corbi A.L., y Dominguez-Soto A. (2022) Intravenous Immunoglobulins Promote an Expansion of Monocytic Myeloid-Derived Suppressor Cells (MDSC) in COVID Patients. *J Clin Immunol* **42**: 1093-105.
- Sobrinós-Sanguino M., Zorrilla S., Keating C.D., Monterroso B., y Rivas G. (2017) Encapsulation of a compartmentalized cytoplasm mimic within a lipid membrane by microfluidics. *Chem Commun (Camb)* **53**: 4775-8.
- Sobrinós-Sanguino M., Zorrilla S., Monterroso B., Minton A.P., y Rivas G. (2017) Nucleotide and receptor density modulate binding of bacterial division FtsZ protein to ZipA containing lipid-coated microbeads. *Sci Rep* **7**: 13707.
- Sobrinós-Sanguino M., Vélez M., Richter R.P., y Rivas G. (2019) Reversible Membrane Tethering by ZipA Determines FtsZ Polymerization in Two and Three Dimensions. *Biochemistry* **58**: 4003-15.
- Soler Palacios B., Nieto C., Fajardo P., Gonzalez de la Aleja A., Andres N., Dominguez-Soto A., Lucas P., Cuenda A., Rodriguez-Frade J.M., Martinez A.C., Villares R., Corbi A.L., y Mellado M. (2020) Growth Hormone Reprograms Macrophages toward an Anti-Inflammatory and Reparative Profile in an MAFB-Dependent Manner. *J Immunol* **205**: 776-88.
- Soria I., Lopez-Relano J., Vinuela M., Tudela J.I., Angelina A., Benito-Villalvilla C., Diez-Rivero C.M., Cases B., Manzano A.I., Fernandez-Caldas E., Casanovas M., Palomares O., y Subiza J.L. (2018) Oral myeloid cells uptake allergoids coupled to mannan driving Th1/Treg responses upon sublingual delivery in mice. *Allergy* **73**: 875-84.

- Sosa-Costa A., Isern de Val S., Sevilla-Movilla S., Borgman K.J., Manzo C., Teixidó J., y García-Parajo M.F. (2016) Lateral Mobility and Nanoscale Spatial Arrangement of Chemokine-activated alpha4beta1 Integrins on T Cells. *J Biol Chem* **291**: 21053-62.
- Spinola-Amilibia M., Davó-Siguero I., Ruiz F.M., Santillana E., Medrano F.J., y Romero A. (2016) The structure of VgrG1 from *Pseudomonas aeruginosa*, the needle tip of the bacterial type VI secretion system. *Acta Crystallogr D Struct Biol* **72**: 22-33.
- Suay-Corredera C., y Alegre-Cebollada J. (2021) Correspondence on "Computational prediction of protein subdomain stability in MYBPC3 enables clinical risk stratification in hypertrophic cardiomyopathy and enhances variant interpretation" by Thompson et al. *Genet Med* **23**: 2009-10.
- Suay-Corredera C., Pricolo M.R., Herrero-Galan E., Velazquez-Carreras D., Sanchez-Ortiz D., Garcia-Giustiniani D., Delgado J., Galano-Frutos J.J., Garcia-Cebollada H., Vilches S., Dominguez F., Molina M.S., Barriaes-Villa R., Frisso G., Sancho J., Serrano L., Garcia-Pavia P., Monserrat L., y Alegre-Cebollada J. (2021) Protein haploinsufficiency drivers identify MYBPC3 variants that cause hypertrophic cardiomyopathy. *J Biol Chem* **297**: 100854.
- Suay-Corredera C., Pricolo M.R., Velazquez-Carreras D., Pathak D., Nandwani N., Pimenta-Lopes C., Sanchez-Ortiz D., Urrutia-Irazabal I., Vilches S., Dominguez F., Frisso G., Monserrat L., Garcia-Pavia P., de Sancho D., Spudich J.A., Ruppel K.M., Herrero-Galan E., y Alegre-Cebollada J. (2021) Nanomechanical Phenotypes in Cardiac Myosin-Binding Protein C Mutants That Cause Hypertrophic Cardiomyopathy. *ACS Nano* **15**: 10203-16.
- Suay-Corredera C., y Alegre-Cebollada J. (2022) The mechanics of the heart: zooming in on hypertrophic cardiomyopathy and cMyBP-C. *FEBS Lett* **596**: 703-46.
- Subias Hidalgo M., Yebenes H., Rodriguez-Gallego C., Martin-Ambrosio A., Dominguez M., Tortajada A., Rodriguez de Cordoba S., y Llorca O. (2017) Functional and structural characterization of four mouse monoclonal antibodies to complement C3 with potential therapeutic and diagnostic applications. *Eur J Immunol* **47**: 504-15.
- Tapia-Galisteo A., Sanchez Rodriguez I., Aguilar-Sopena O., Harwood S.L., Narbona J., Ferreras Gutierrez M., Navarro R., Martin-Garcia L., Corbacho C., Compte M., Lacadena J., Blanco F.J., Chames P., Roda-Navarro P., Alvarez-Vallina L., y Sanz L. (2022) Trispecific T-cell engagers for dual tumor-targeting of colorectal cancer. *Oncoimmunology* **11**: 2034355.
- Tarazona N.A., Machatschek R., Schulz B., Prieto M.A., y Lendlein A. (2019) Molecular Insights into the Physical Adsorption of Amphiphilic Protein PhaF onto Copolyester Surfaces. *Biomacromolecules* **20**: 3242-52.
- Tarazona N.A., Maestro B., Revellés O., Sanz J.M., y Prieto M.A. (2019) Role of leucine zipper-like motifs in the oligomerization of *Pseudomonas putida* phasins. *Biochim Biophys Acta Gen Subj* **1863**: 362-70.
- Tarazona N.A., Hernández-Arriaga A.M., Kniewel R., y Prieto M.A. (2020) Phasin interactome reveals the interplay of PhaF with the polyhydroxyalkanoate transcriptional regulatory protein PhaD in *Pseudomonas putida*. *Environ Microbiol*
- Teixidó J., Martínez-Moreno M., Díaz-Martínez M., y Sevilla-Movilla S. (2018) The good and bad faces of the CXCR4 chemokine receptor. *Int J Biochem Cell Biol* **95**: 121-31.
- Teresak P., Lapao A., Subic N., Boya P., Elazar Z., y Simonsen A. (2022) Regulation of PRKN-independent mitophagy. *Autophagy* **18**: 24-39.

- Thomson-Luque R., y Bautista J.M. (2021) Home Sweet Home: Plasmodium vivax-Infected Reticulocytes-The Younger the Better? *Front Cell Infect Microbiol* **11**: 675156.
- Vargas-Alfredo N., Santos-Coquillat A., Martínez-Campos E., Dorronsoro A., Cortajarena A.L., del Campo A., y Rodríguez-Hernández J. (2017) Highly Efficient Antibacterial Surfaces Based on Bacterial/Cell Size Selective Microporous Supports. *ACS Appl Mater Interfaces* **9**: 44270-80.
- Vazquez R., Domenech M., Iglesias-Bexiga M., Menendez M., y Garcia P. (2017) Csl2, a novel chimeric bacteriophage lysin to fight infections caused by Streptococcus suis, an emerging zoonotic pathogen. *Sci Rep* **7**: 16506.
- Vazquez R., Garcia E., y Garcia P. (2018) Phage Lysins for Fighting Bacterial Respiratory Infections: A New Generation of Antimicrobials. *Front Immunol* **9**: 2252.
- Vazquez R., y Garcia P. (2019) Synergy Between Two Chimeric Lysins to Kill Streptococcus pneumoniae. *Front Microbiol* **10**: 1251.
- Vazquez R., Blanco-Ganan S., Ruiz S., y Garcia P. (2021) Mining of Gram-Negative Surface-Active Enzybiotic Candidates by Sequence-Based Calculation of Physicochemical Properties. *Front Microbiol* **12**: 660403.
- Vazquez R., Caro-Leon F.J., Nakal A., Ruiz S., Donoro C., Garcia-Fernandez L., Vazquez-Lasa B., San Roman J., Sanz J., Garcia P., y Aguilar M.R. (2021) DEAE-chitosan nanoparticles as a pneumococcus-biomimetic material for the development of antipneumococcal therapeutics. *Carbohydr Polym* **273**: 118605.
- Vazquez R., Garcia E., y Garcia P. (2021) Sequence-Function Relationships in Phage-Encoded Bacterial Cell Wall Lytic Enzymes and Their Implications for Phage-Derived Product Design. *J Virol* **95**: e0032121.
- Vega M.A., Simon-Fuentes M., Gonzalez de la Aleja A., Nieto C., Colmenares M., Herrero C., Dominguez-Soto A., y Corbi A.L. (2020) MAFB and MAF Transcription Factors as Macrophage Checkpoints for COVID-19 Severity. *Front Immunol* **11**: 603507.
- Vicente F., Sanchiz A., Rodríguez-Pérez R., Pedrosa M., Quirce S., Haddad J., Besombes C., Linacero R., Allaf K., y Cuadrado C. (2020) Influence of Instant Controlled Pressure Drop (DIC) on Allergenic Potential of Tree Nuts. *Molecules* **25**:
- Vilar M., Sung T.C., Chen Z., García-Carpio I., Fernández E.M., Xu J., Riek R., y Lee K.F. (2014) Heterodimerization of p45-p75 modulates p75 signaling: structural basis and mechanism of action. *PLoS Biol* **12**: e1001918.
- Villarejo-Zori B., y Boya P. (2017) [Autophagy and vision]. *Med Sci (Paris)* **33**: 297-304.
- Villarejo-Zori B., Jiménez-Loygorri J.I., y Boya P. (2020) HIF1alpha or mitophagy: which drives cardiomyocyte differentiation? In. *Cell Stress*, 2020/05/19 Ed.
- Vitale S., Partida-Hanon A., Serrano S., Martínez-del-Pozo A., di Pietro A., Turra D., y Bruix M. (2017) Structure-Activity Relationship of alpha Mating Pheromone from the Fungal Pathogen Fusarium oxysporum. *J Biol Chem* **292**: 3591-602.
- Yuste-Montalvo A., Fernandez-Bravo S., Oliva T., Pastor-Vargas C., Betancor D., Goikoetxea M.J., Laguna J.J., Lopez J.A., Alvarez-Llamas G., Cuesta-Herranz J., Martin-Lorenzo M., y Esteban V. (2021) Proteomic and Biological Analysis of an In Vitro Human Endothelial System in Response to Drug Anaphylaxis. *Front Immunol* **12**: 692569.

Zaballos M., Power M., Canal-Alonso M.I., Gonzalez-Nicolas M.A., Vasquez-Jimenez W., Lozano-Lominchar P., Cabrerizo-Torrente P., Palencia-Garcia N., Gago-Quiroga S., Ginel-Feito M.D., Jimenez C., Lazaro A., y Gonzalez-Bayon L. (2021) Effect of Cilastatin on Cisplatin-Induced Nephrotoxicity in Patients Undergoing Hyperthermic Intraperitoneal Chemotherapy. *Int J Mol Sci* **22**:

Zorrilla S., Monico A., Duarte S., Rivas G., Perez-Sala D., y Pajares M.A. (2019) Integrated approaches to unravel the impact of protein lipoxidation on macromolecular interactions. *Free Radic Biol Med* **144**: 203-17.