

PUBLICACIONES DEL CENTRO DE FABRICACIÓN DE TERAPIAS AVANZADAS

Artículos científicos en los que participa personal del centro

- Baliu-Piqué M, Drylewicz J, Zheng X, Borkner L, Swain AC, Otto SA, de Boer RJ, Tesselaar K, Cicin-Sain L, Borghans JAM. Turnover of Murine Cytomegalovirus-Expanded CD8+ T Cells Is Similar to That of Memory Phenotype T Cells and Independent of the Magnitude of the Response. *J Immunol*. 2022 Feb 15;208(4):799-806. doi: 10.4049/jimmunol.2100883. Epub 2022 Jan 28.
- Saiz-Ladera C, Baliu-Piqué M, Cimas FJ, Manzano A, García-Barberán V, Camarero SC, Hinojal GF, Pandiella A, Györfy B, Stewart D, Cruz-Hernández JJ, Pérez-Segura P, Ocaña A. Transcriptomic Correlates of Immunologic Activation in Head and Neck and Cervical Cancer. *Front Oncol*. 2021 Oct 6;11:714550. doi: 10.3389/fonc.2021.714550. ECollection 2021.
- Noblejas-López MDM, Baliu-Piqué M, Nieto-Jiménez C, Cimas FJ, Morafraila EC, Pandiella A, Corbí ÁL, Györfy B, Ocaña A. Transcriptomic Profiles of CD47 in Breast Tumors Predict Outcome and Are Associated with Immune Activation. *Int J Mol Sci*. 2021 Apr 7;22(8):3836. doi: 10.3390/ijms22083836.
- Fuentes-Antrás J, Alcaraz-Sanabria AL, Morafraila EC, Noblejas-López MDM, Galán-Moya EM, Baliu-Piqué M, López-Cade I, García-Barberán V, Pérez-Segura P, Manzano A, Pandiella A, Györfy B, Ocaña A. Mapping of Genomic Vulnerabilities in the Post-Translational Ubiquitination, SUMOylation and Neddylation Machinery in Breast Cancer. *Cancers (Basel)*. 2021 Feb 17;13(4):833. doi: 10.3390/cancers13040833.
- Baliu-Piqué M, van Hoeven V, Drylewicz J, van der Wagen LE, Janssen A, Otto SA, van Zelm MC, de Boer RJ, Kuball J, Borghans JA, Tesselaar K. Cell-density independent increased lymphocyte production and loss rates post-autologous HSCT. *Elife*. 2021 Feb 4;10:e59775. doi: 10.7554/eLife.59775.
- Rojas K, Baliu-Piqué M, Manzano A, Saiz-Ladera C, García-Barberán V, Cimas FJ, Pérez-Segura P, Pandiella A, Györfy B, Ocaña A. In silico transcriptomic mapping of integrins and immune activation in Basal-like and HER2+ breast cancer. *Cell Oncol (Dordr)*. 2021 Jun;44(3):569-580. doi: 10.1007/s13402-020-00583-9. Epub 2021 Jan 19.
- Fuentes-Antrás J, Guevara-Hoyer K, Baliu-Piqué M, García-Sáenz JÁ, Pérez-Segura P, Pandiella A, Ocaña A. Adoptive Cell Therapy in Breast Cancer: A Current Perspective of Next-Generation Medicine. *Front Oncol*. 2020 Oct 27;10:605633. doi: 10.3389/fonc.2020.605633. ECollection 2020.
- Baliu-Piqué M, Pandiella A, Ocaña A. Breast Cancer Heterogeneity and Response to Novel Therapeutics. *Cancers (Basel)*. 2020 Nov 5;12(11):3271. doi: 10.3390/cancers12113271.
- Cimas FJ, Manzano A, Baliu-Piqué M, García-Gil E, Pérez-Segura P, Nagy Á, Pandiella A, Györfy B, Ocaña A. Genomic Mapping Identifies Mutations in RYR2 and AHNK as Associated with Favorable Outcome in Basal-Like Breast Tumors Expressing PD1/PD-L1. *Cancers (Basel)*. 2020 Aug 11;12(8):2243. doi: 10.3390/cancers12082243.
- Alcaraz-Sanabria A, Baliu-Piqué M, Saiz-Ladera C, Rojas K, Manzano A, Marquina G, Casado A, Cimas FJ, Pérez-Segura P, Pandiella A, Györfy B, Ocaña A. Genomic Signatures of Immune Activation Predict Outcome in Advanced Stages of Ovarian Cancer and Basal-Like Breast Tumors. *Front Oncol*. 2020 Jan 10;9:1486. doi: 10.3389/fonc.2019.01486. ECollection 2019.
- Pérez-Pena J, Tibor Fekete J, Páez R, Baliu-Piqué M, García-Saenz JÁ, García-Barberán V, Manzano A, Pérez-Segura P, Esparis-Ogando A, Pandiella A, Györfy B, Ocaña A. A Transcriptomic Immunologic Signature Predicts Favorable Outcome in Neoadjuvant Chemotherapy Treated Triple Negative Breast Tumors. *Front Immunol*. 2019 Dec 18;10:2802. doi: 10.3389/fimmu.2019.02802. ECollection 2019.
- Baliu-Piqué M, Otto SA, Borghans JAM, Tesselaar K. In vivo deuterium labelling in mice supports a dynamic model for memory T-cell maintenance in the bone marrow. *Immunol Lett*. 2019 Jun;210:29-32. doi: 10.1016/j.imlet.2019.04.004. Epub 2019 Apr 17.
- Baliu-Piqué M, Kurniawan H, Ravesloot L, Verheij MW, Drylewicz J, Lievaart-Peterson K, Borghans JAM, Koets A, Tesselaar K. Age-related distribution and dynamics of T-cells in blood and lymphoid tissues of goats. *Dev Comp Immunol*. 2019 Apr;93:1-10. doi: 10.1016/j.dci.2018.12.004. Epub 2018 Dec 11.
- Baliu-Piqué M, Verheij MW, Drylewicz J, Ravesloot L, de Boer RJ, Koets A, Tesselaar K, Borghans JAM. Short Lifespans of Memory T-cells in Bone Marrow, Blood, and Lymph Nodes Suggest That T-cell Memory Is Maintained by Continuous Self-Renewal of Recirculating Cells. *Front Immunol*. 2018 Sep

11;9:2054. doi: 10.3389/fimmu.2018.02054. ECollection 2018.

- Baliu-Piqué M, Jusek G, Holzmann B. Neuroimmunological communication via CGRP promotes the development of a regulatory phenotype in TLR4-stimulated macrophages. *Eur J Immunol*. 2014 Dec;44(12):3708-16. doi: 10.1002/eji.201444553. Epub 2014 Nov 10.
- Nikolaos I. Panousis, Omar El Garwany, Andrew Knights, Jesse Cheruiyot Rop, Natsuhiko Kumasaka, Maria Imaz, Lorena Boquete Vilarino, Anthi Tsingene, Alex Tokolyi, Alice Barnett, Celine Gomez, Carl A. Anderson & Daniel J. Gaffney. Gene expression QTL mapping in stimulated iPSC-derived macrophages provides insights into common complex diseases. *Nat Commun* 16, 7204 (2025). <https://doi.org/10.1038/s41467-025-61670-9>
- Omar El Garwany, Nikolaos I. Panousis, Andrew Knights, Natsuhiko Kumasaka, Maria Imaz, Lorena Boquete Vilarino, Anthi Tsingene, Alex Tokolyi, Cristina Cotobal Martin, Tobi Alegbe, Monika Krzak, Tim Raine, Alice Barnett, Celine Gomez, Daniel J. Gaffney & Carl A. Anderson. Splicing QTL mapping in stimulated macrophages associates low-usage splice junctions with immune-mediated disease risk. *Nat Commun* 16, 7205 (2025). <https://doi.org/10.1038/s41467-025-61669-2>
- López Lorenzo, N., Boquete Vilariño, L., Baliu-Piqué, M. Manufacturing Cell-Based Products. In: Silva, A.C. (eds) *Springer Handbook of Medical Biotechnology*. Springer Handbooks (2026). https://doi.org/10.1007/978-3-032-01636-2_28