

Pilar M. DOMINGUEZ

Publications in peer-reviewed journals (only original research, reviews are below):

1. Calaud C, Serrano-Lopez E, Cluse LA, Todorovski I, Mardivirin T, Teater M, Maarad A, Tawfic N, Sophia Rutaquio S, Fraser PJ, Guiraud K, Dupont C, Menigot C, Sant'Anna-Silva ACB, Yoannidis D, Kerrenneur E, Rocchi S, Jacquiel A, Melnick AM, Johnstone RW and **Dominguez PM**. "Enhanced efficacy of a specific HDAC3 inhibitor in combination with 5-Azacitidine against diffuse large B-cell lymphoma" accepted in *Blood Neoplasia* 2026 <https://doi.org/10.1016/j.bneo.2026.100214>
2. Schliehe-Diecks J, Tu J-W, Stachura P, Schaal K, Kemkes M, Vasileiou E, Rüchel N, Brandes D, Vogt M, Lenz T, Nair A, Scheu S, **Dominguez PM**, Pastorczak A, Nebral K, Stühler K, Fischer U, Pandya AA, Borkhardt A, Bhatia S. "Epigenetic remodeling via HDAC6 inhibition amplifies anti-tumoral immune responses in myeloid leukemia cells". *Cell Death Dis* 2026. 17, 300. <https://doi.org/10.1038/s41419-026-08541-3> PMID: 41794832
3. Ghamlouch H, Degaud M, Della-Valle V, Eeckhoutte A, Armand M, Joudat A, Decaudin C, **Dominguez PM**, Rosikiewicz W, Pawlikowska P, Darwiche W, Mouly E, Li S, Melnick AM, Aoufouchi S and Bernard OA. "Tet2 deficiency promotes IgG1+ B-cell expansion and differentiation blockade through deregulation of the Nfkb α -c-Rel axis." *HemaSphere* 2026,10: e70296. <https://doi.org/10.1002/hem3.70296> PMID: 41536808
4. Ballan N, Bordji M, Degoul M, Deportes G, Hugel A, Ung S, Vernet E and **Dominguez PM**. Combining epigenetics and immunotherapy: an innovative strategy for acute myeloid leukemia treatment doi 10.1051/medsci/2025144. *Med Sci (Paris)*. 2025 Oct;41(10):798-801. doi: 10.1051/medsci/2025144. PMID: 41259698
5. So J, Lewis, AC, Smith LK, Stanley K, Franich R, Yoannidis D, Pijpers L, **Dominguez P**, Hogg SJ, Vervoort SJ, Brown FC, Johnstone RW, McDonald G, Ulanet DB, Murtie J, Gruber E, Kats LM. "Inhibition of pyrimidine biosynthesis targets protein translation in acute myeloid leukemia" *EMBO Mol Med*. 2022 Jul 7;14(7):e15203. doi: 10.15252/emmm.202115203. Epub 2022 May 6. PMID: 35514210.
6. Salmon JM, Todorovski I, Stanley KL, Bruedigam C, Kearney CJ, Martelotto LG, Rossello F, Semple T, Arnau GM, Zethoven M, Bots M, Bjelosevic S, Cluse LA, Fraser PJ, Litalien V, Vidacs E, McArthur K, Matthews AY, Gressier E, de Weerd NA, Lichte J, Kelly MJ, Hogg SJ, Hertzog PJ, Kats LM, Vervoort SJ, De Carvalho DD, Scheu S, Bedoui S, Kile BT, Lane SW, Perkins AC, Wei AH, **Dominguez PM**#, Johnstone RW#. "Epigenetic activation of plasmacytoid DC drives IFNAR-dependent therapeutic differentiation of AML" *Cancer Discovery* 2022 Jun 2;12(6):1560-1579. doi: 10.1158/2159-8290.CD-20-1145. PMID: 35311997.

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7. Ali AI, Wang M, von Scheidt B, **Dominguez PM**, Harrison AJ, Tantalo DGM, Kang J, Oliver AJ, Chan JD, Du X, Bai Y, Lee B, Johnstone RW, Darcy PK, Kershaw MH, Slaney CY. "A histone deacetylase inhibitor, panobinostat, enhances chimeric receptor antigen T cell anti-tumor effect against pancreatic cancer" *Clin Cancer Res*. 2021 Nov 15;27(22):6222-6234. doi: 10.1158/1078-0432.CCR-21-1141. Epub 2021 Sep 2. PMID: 34475103.
8. Lelliott EJ, Kong IY, Zethoven M, Ramsbottom KM, Martelotto LG, Meyran D, Zhu JJ, Costacurta M, Kirby L, Sandow JJ, Lim L, **Dominguez PM**, Todorovski I, Haynes NM, Beavis PA, Neeson PJ, Hawkins ED, McArthur GA, Parish IA, Johnstone RW, Oliaro J, Sheppard KE, Kearney CJ, Vervoort SJ. "CDK4/6 Inhibition Promotes Antitumor Immunity through the Induction of T-cell Memory" *Cancer Discov*. 2021 Oct;11(10):2582-2601. doi: 10.1158/2159-8290.CD-20-1554. Epub 2021 May 14. PMID: 33990344.
9. Rosikiewicz W*, Chen X*, **Dominguez PM***, Ghamlouch H, Aoufouchi S, Bernard OA, Melnick A, Li S. "TET2 Deficiency Reprograms the Germinal Center B-cell Epigenome and Silences Genes Linked to Lymphomagenesis" *Science Advances* 2020 Jun 17;6(25):eaay5872. doi: 10.1126/sciadv.aay5872 PMID: 32596441.

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10. **Dominguez PM**, Ghamlouch H, Rosikiewicz W, Kumar P, Béguelin W, Fontán L, Rivas MA, Pawlikowska P, Armand M, Mouly E, Torres-Martin M, Doane AS, Calvo Fernandez MT, Durant M, Della-Valle V, Teater M, Cimmino L, Droin N, Tadros S, Motanagh S, Shih AH, Rubin MA, Tam W, Aifantis I, Levine RL, Elemento O, Inghirami G, Green MR, Figueroa ME, Bernard OA, Aoufouchi S, Li S, Shakhovich R, Melnick AM. "TET2 deficiency causes germinal center hyperplasia, impairs plasma cell differentiation and promotes B-cell lymphomagenesis" *Cancer Discov* Dec 1 2018 (8) (12) 1632-1653; doi: 10.1158/2159-8290.CD-18-0657 PMID: 30274972.
11. Rutherford SC, Fachel AA, Li S, Sawh S, Muley A, Ishii J, Saxena A, **Dominguez PM**, Caldas Lopes E, Agirre X, Chambwe N, Correa F, Jiang Y, Richards KL, Betel D, Shakhovich R. "Extracellular vesicles in DLBCL provide abundant clues to aberrant transcriptional programming and genomic alterations" *Blood*. 2018 Aug 16;132(7):e13-e23. doi: 10.1182/blood-2017-12-821843. Epub 2018 Jul 2. PMID: 29967128.
12. Beceiro S, Pap A, Czimmerer Z, Sallam T, Guillén JA, Gallardo G, Hong C, A-Gonzalez N, Tabraue C, Diaz M, Lopez F, Matalonga J, Valledor AF, **Dominguez P**, Ardavin C, Delgado-Martin C, Partida-Sanchez S, Rodriguez-Fernandez JL, Nagy L, Tontonoz P, Castrillo A. "Liver X Receptor Nuclear Receptors Are Transcriptional Regulators of Dendritic Cell Chemotaxis". *Mol Cell Biol*. 2018 Apr 30;38(10):e00534-17. doi: 10.1128/MCB.00534-17. Print 2018 May 15. PMID: 29507185.
13. Teater M*, **Dominguez PM***, Redmond D, Chen Z, Ennishi D, Scott DW, Cimmino L, Ghione P, Chaudhuri J, Gascoyne RD, Aifantis I, Inghirami G, Elemento O, Melnick A, Shakhovich R. "AICDA drives epigenetic heterogeneity and accelerates germinal center-derived lymphomagenesis" *Nature Comm* 2018 Jan 15;9(1):222. doi: 10.1038/s41467-017-02595-w PMID: 29335468.

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14. **Dominguez PM**, Teater M, Chambwe N, Kormaksson M, Redmond D, Ishii J, Vuong B, Chaudhuri J, Melnick A, Vasanthakumar A, Godley LA, Papavasiliou FN, Elemento O, Shaknovich R. “DNA methylation dynamics of germinal center B cells are mediated by AID” *Cell Reports* 2015 Sep 29;12(12):2086-98. doi: 10.1016/j.celrep.2015.08.036. PMID: 26365193.
15. López-Bravo M*, Minguito de la Escalera M*, **Domínguez PM***, González-Cintado L, del Fresno C, Martín P, Martínez del Hoyo G, Ardavín C. “IL-4 blocks Th1-polarizing/inflammatory cytokine gene expression during monocyte-derived dendritic cell differentiation through histone hypoacetylation” *J Allergy Clin Immunol* 2013 Dec 132(6):1409-19. doi: 10.1016/j.jaci.2013.08.039. PMID: 24139608.

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16. **Dominguez PM**, López-Bravo M, Kalinke U, Ardavín C. “Statins inhibit iNOS-mediated microbicidal potential of activated monocyte-derived dendritic cells by an IFN- γ -dependent mechanism” *Eur J Immunol* 2011 Nov;41(11):3330-9. doi: 10.1002/eji.201141674 PMID: 21874649. This article was selected by “The Faculty of 1000”

Publications in peer reviewed journals (reviews):

1. **Dominguez PM**, Teater M and Shaknovich R. “The new frontier of epigenetic heterogeneity in B-cell neoplasms” *Curr Opin Hematol* 2017 Jul;24(4):402-408. doi: 10.1097/MOH.0000000000000348. PMID: 28375986.
2. Jiang Y, **Dominguez PM**, Melnick AM. “The many layers of epigenetic dysfunction in B-cell lymphomas” *Curr Opin Hematol*. 2016 Jul;23(4):377-84. doi: 10.1097/MOH.0000000000000249. PMID: 27055146.
3. **Dominguez PM** and Shaknovich R. “Epigenetic function of activation-induced cytidine deaminase and its link to lymphomagenesis” *Front Immunol* 2014 Dec 18;5:642 (2014). doi: 10.3389/fimmu.2014.00642. eCollection 2014. PMID: 25566255.
4. **Dominguez PM** and Ardavín C. “Differentiation and function of mouse monocyte-derived dendritic cells in steady state and inflammation” *Immunol Rev* 2010 Mar 234:90-104. doi: 10.1111/j.0105-2896.2009.00876.x. PMID: 20193014.