Marcos Malumbres, PhD

https://malumbreslab.org

ICREA Professor of Research https://www.icrea.cat/Web/ScientificStaff/marcos-malumbres-406897
Director, Systems Oncology Program; Head, Cell Cycle & Cancer Group, https://vhio.net/pf/cancer-cell-cycle-group/
Vall d'Hebron Institute of Oncology (VHIO), C/ Natzaret, 115-117, 08035 Barcelona, Spain
Head, Cell Division & Cancer Group, Spanish National Cancer Research Centre (CNIO) Madrid

Research and Professional Experience

2024-	Director, Systems Oncology Program, VHIO Barcelona
2023-	Head, Cancer Cell Cycle Group, VHIO Barcelona
2023-	External Associated Faculty, IRB-Barcelona, Barcelona
2023-	ICREA Professor, Barcelona
2019-	Visiting Professor, Dana Farber Cancer Institute, Harvard Univ., Boston, USA
2005-2022	Head, Cell Division & Cancer Group (CNIO), Madrid
2004-present	Staff Investigator, Spanish National Council of Research (CSIC), Spain (on leave)
1999-2004	Staff Scientist, CNIO, Madrid.
1993-1998	Assistant Research Scientist, New York University Medical Center, NY, USA
1988-1988	Visiting Scientist, Zentrum für Molekulare Biologie im Heidelberg
1988-1993	Ph. D., Dep. of Microbiology, Universidad de León, León, Spain

Awards, Honours and International Committees

2021-present	Scientific Advisory Board, European TRANSCAN (http://transcan.eu/)
2021-present	Molecular Tumor Board, SOLTI-HOPE
2020-present	Scientific Advisory Board, Worldwide Cancer Research (WCR)
2019	Gold Medal, Spanish Association against Cancer (AECC)
2014, 2020	Among the TOP-TEN Spanish Researchers most cited in Biomedicine (Ioannidis et al., *PLoS Biol* 17(8): e3000384)
2018	International Panel Evaluation FCT Units, Portugal
2016	Elected EMBO Member
2016-present	Scientific Advisory Board of the Spanish Association against Cancer (AECC)
2014	Member of the AERES committee, Institute of Molecular Genetics, Montpellier
2013-present	Scientific Advisory Board of the Institute of Molecular Genetics Academy of Sciences of the Czech Republic.
2012-2015	Member of the Spanish Agency for Project Evaluation (ANEP)
2008-2009	Member of the Council, European Association for Cancer Research (EACR).
2007-present	Honorary member, Balkan Union of Oncology
2005	SEBBM Beckman/Coulter Award 2005
2001-present	Honorary Professor, Universidad Autónoma de Madrid
1994	"Juan Abelló" Prize of the Real Academia de Doctores

Editorial and Peer-Review Activities

2019-2022 *PLoS Biology*, Editorial Board
2017- *Scientific Reports*, Editorial Board
2016- *BioEssays*, Editorial Board
2014-2016 *Inside the Cell*, Editor-In-Chief
2011-2020 *Frontiers in Molecular and Cellular Oncology*, Associate Editor
2011-2017 *microRNA*, Editorial Board founding member
2010- *Genes & Cancer*, Editorial Board founding member
2010-2017 *Molecular Cancer,* Associate Editor
2008-2017 *Current Medical Chemistry,* Editorial Board
2007- *J. BUON,* Editorial Board

Journal Peer-Review
Nature, Science, Cell, Cancer Cell, *Nature Reviews series (Mol. Cell Biol., Cancer, Drug Discover, Clinical Oncol.)*, *Nat. Med., Nat. Cell Biol*., *Nat. Comm., Nat. Struc. Biol*., *Nat. Methods*, *Mol. Syst. Biol., Trends* series, *Mol. Cell*, *Dev. Cell*, *Cancer Res*., *PLoS Biol*., *EMBO J., EMBO Reports*, *EMBO Mol. Med*., *J. Clin. Invest*., *JNCI*, *J. Cell Biol*., *PNAS, Blood, Development* and others.

Grant Review
Ad hoc reviewer for EU Horizon2020 (ERC grants), EU 7FP, Cancer Research UK, The Wellcome Trust, Worldwide Cancer Research (AICR-WCR), Ireland Science Foundation (ISF), Dutch Cancer Society, the Netherlands Organisation for Scientific Research (NWO), Research Grants Council (Hong Kong), INCA (France), Karolinska Institutet KAW, and others. Associate of the Spanish Agency for Project Evaluation (ANEP) since 2001 and staff member in 2012-2015. Associate of Junta de Anadalucia Evaluation Agency (Fundación Progreso y Salud).

Organization of International Conferences

Molecular Determinants of Cancer Therapy Resistance. Barcelona Biomed Conference. Organized by Angel R. Nebreda, Clare M. Isacke & Marcos Malumbres. 18-20 November 2024

Diet, Nutrition and Cancer Cell Metabolism, CNIO-Caixa Frontier Meetings, October 24-26, 2022 (co-organizers: Nabil Djouder, CNIO; Nikla Emambokus, Cell Press; Allyson Evans, Cell Metabolism; Valter Longo, IFOM; Marcos Malumbres, CNIO)

EMBO Workshop on Cell division: molecular machineries and cancer targeted therapies, UNIA-Baeza 2015 (co-organizers: Amancio Carnero, Marcos Malumbres, Guillermo Montoya)

11th International VHL Symposium, Madrid 2014 (Scientific Committee).

Aneuploidy and Chromosomal Instability and Cancer. CNIO, Madrid, 2013 (co-organizers: Robert Benezra, Ana Losada, Marcos Malumbres and Rene Medema)

Cell Cycle Regulators/Inhibitors & Cancer, Vienna, February 2011 (organizing Committee).

Cell Cycle and Cancer Meeting, Toulouse, March 2008 (organizing Committee).

The Cell Cycle and Cancer, Madrid, 2002 (co-organizers: Jiri Bartek, Marcos Malumbres, Charles J. Sherr)

Patent applications

Uso del microRNA-203 y de sistemas de expresión del mismo para fabricar medicamentos contra el cáncer. M.J. Bueno, Ignacio Pérez de Castro, J. Fernández-Piqueras & M. Malumbres . N. de solicitud: 200800739. ES2325726A1

Aislamiento de células hipofisarias multipotentes y diferenciación in Vitro de las mismas. C. Alvarez, C. Diéguez, M. García-Lavandeira & M. Malumbres. N. de solicitud: 200803351. ES2339911A1

Method for Expanding Stemness and Differentiation Potential of Pluripotent Cells. M. Malumbres, M. Salazar-Roa, M. Trakala & M. Álvarez-Fernández. EP 17382304.8. WO2018/215662.

Imidazo[1,2-B]pyridazine based tricyclic compounds as inhibitors of Haspin and therapeutic used thereof. Pastor Fernandez J, Martinez Gonzalez S, Blanco Aparicio C, Garcia Garcia AB, Rodriguez Aristegui S, Gomez de la Oliva CA, Albarran Santiño MI, Cebria Gomez A, Malumbres M. WO2022200433A1. 2021-03-23

Imidazo[1,2-B]pyridazines as inhibitors of Haspin and therapeutic used thereof. Pastor Fernandez J, Martinez Gonzalez S, Blanco Aparicio C, Gonzalez Cantalapiedra E, Garcia Garcia AB, Pastor Fernandez M, Hernandez Higueras AI, Albarran Santiño MI, Cebria Gomez A, Malumbres M. WO2022180150A1. 2021-02-25.

Pyrido[2,3-D]pyrimidin-7(8H)-ones as CDK inhibitors. Malumbres M, Alvarez-Fernandez M, Zapatero E, Sanchez J, Salazar-Roa M. EP4118082A1 • 2023-01-18

Bibliometric Data

Data from https://scholar.google.com/citations?hl=en&user=PuGGz7EAAAAJ (March 1st, 2024)

Publications:		All	Since 2019
204 articles in Pubmed	Citations	35351	12604
6 articles not in Pubmed	h-index	77	52
10 book chapters (www.malumbreslab.org)	i10-index	181	138

List of Publications

219 Vara-Ciruelos D, **Malumbres M** (2024). Cross Talk Between Metabolism and the Cell Division Cycle. *Methods Mol Biol* **2740**:141-154. [PMID: 38393474]

218 Meattini I, Becherini C, Caini S, Coles CE, Cortes J, Curigliano G, de Azambuja E, Isacke CM, Harbeck N, Kaidar-Person O, Marangoni E, Offersen BV, Rugo HS, Salvestrini V, Visani L, Morandi A, Lambertini M, Poortmans P, Livi L, Consensus Panellist Group (incl. **Malumbres M**). (2024) International multidisciplinary consensus on the integration of radiotherapy with new systemic treatments for breast cancer: European Society for Radiotherapy and Oncology (ESTRO)-endorsed recommendations. *Lancet Oncol*. **25**, e73-e83. [PMID: 38301705]

217 Baldrighi, M., Doreth, C., Li, Y., Zhao, X., Warner, E., Chenoweth, H., Kishore, K., Umrania, Y., Minde, D.P., Thome, S., Yu, X., Lu, Y., Knapton, A., Harrison, J., Clarke, M., Latz, E., de Carcer, G., **Malumbres, M.,** Ryffel, B., Bryant, C., Liu, J., Lilley, K.S., Mallat, Z., Li, X. (2023) PLK1 inhibition dampens NLRP3 inflammasome-elicited response in inflammatory disease models. *J Clin Invest* **133**, e162129. https://doi.org/10.1172/JCI162129. [PMID: 37698938]

216 Martínez-Illescas NG, Leal S, González P, Graña-Castro O, Muñoz-Oliveira JJ, Cortés-Peña A, Gómez-Gil M, Vega Z, Neva V, Romero A, Quintela-Fandino M, Ciruelos E, Sanz C, Aragón S, Sotolongo L, Jiménez S, Caleiras E, Mulero F, Sánchez C*, **Malumbres M*,**

Salazar-Roa M*. (2023) miR-203 drives breast cancer cell differentiation. *Breast Cancer Res* **25**:91. doi: 10.1186/s13058-023-01690-9. [PMID: 37542268]

215 Sayago, C., Sanchez, J., García, F., Hurtado,, B., Lafarga, V., Prieto, P., Zarzuela, E., Ximenez-Embun, P., Ortega, S., Megias, D., Fernandez-Capetillo, O., **Malumbres, M.,** Muñoz, J. Decoding protein methylation function with thermal stability analysis. *Nat. Commun.,* **14**, 3016. [PMID: 37230995]

214 Olivera-Salguero R, Seguí E, Cejalvo JM, Oliveira M, Tolosa P, Vidal Losada M, **Malumbres M**, Gavilá J, Saura C, Pernas S, López R, Margeli M, Balmaña J, Muñoz M, Blancas I, Boni V, Ciruelos E, Galve E, Perelló A, Sánchez-Bayona R, De La Cruz S, De La Hoya M, Galván P, Sanfeliu E, González B, Sirenko V, Blanch-Torras A, Canes J, Masanas H, Olmos R, Forns M, Prat A, Casas A*, Pascual Martínez T.* (2023) HOPE (SOLTI-1903) Breast Cancer Study: Real-world, patient-centric, clinical practice study to assess the impact of genomic data on next treatment decision-choice in patients with locally advanced or metastatic breast cancer. *Front Oncol* **13**:1151496. [PMID: 37188177].

213. Mouron S, Bueno MJ, Muñoz M, Torres R, Rodríguez S, Apala JV, Silva J, Sánchez-Bayona R, Manso L, Guerra J, Rodriguez-Lajusticia L, Malon D, **Malumbres M,** Quintela-Fandino M. (2023) p27Kip1 V109G as a biomarker for CDK4/6 inhibitors indication in hormone receptor-positive breast cancer. *JNCI Cancer Spectr.* Feb 20:pkad014. doi: 10.1093/jncics/pkad014. [PMID: 36806942]

212. Dhital B, Santasusagna S, Kirthika P, Xu M, Li P, Carceles-Cordon M, Soni RK, Li Z, Hendrickson RC, Schiewer MJ, Kelly WK, Sternberg CN, Luo J, Lujambio A, Cordon-Cardo C, Alvarez-Fernandez M, **Malumbres M,** Huang H, Ertel A, Domingo-Domenech J, Rodriguez-Bravo V. (2023) Harnessing transcriptionally driven chromosomal instability adaptation to target therapy-refractory lethal prostate cancer. *Cell Rep Med.* **4**, 100937. doi: 10.1016/j.xcrm.2023.100937. [PMID: 36787737]

211. Sanz-Castillo B, Hurtado B, Vara-Ciruelos D, El Bakkali A, Hermida D, Salvador-Barbero B, Martínez-Alonso D, González-Martínez J, Santiveri C, Campos-Olivas R, Ximénez-Embún P, Muñoz J, Álvarez-Fernández M, **Malumbres M**. (2023) The MASTL/PP2A cell cycle kinase-phosphatase module restrains PI3K-Akt activity in an mTORC1-dependent manner. *EMBO J.* **42**, e110833. doi: 10.15252/embj.2022110833. [PMID: 36354735]

210. Villarroya-Beltri C, Martins AFB, García A, Giménez D, Zarzuela E, Novo M, Del Álamo C, González-Martínez J, Bonel-Pérez GC, Díaz I, Guillamot M, Chiesa M, Losada A, Graña-Castro O, Rovira M, Muñoz J, Salazar-Roa M, **Malumbres M.** (2023) Mammalian CDC14 phosphatases control exit from stemness in pluripotent cells. *EMBO J*. **42**, e111251. doi: 10.15252/embj.2022111251. [PMID: 36326833]

209. Frontiñán-Rubio J, Llanos-González E, García-Carpintero S, Peinado JR, Ballesteros-Yáñez I, Rayo MV, de la Fuente J, Pérez-García VM, Perez-Romasanta LA, **Malumbres M,** Alcaín FJ, Durán-Prado M. (2023) CoQ10 reduces glioblastoma growth and infiltration through proteome remodeling and inhibition of angiogenesis and inflammation. *Cell Oncol* **46**, 65-77. doi: 10.1007/s13402-022-00734-0. [PMID: 36319818]

208. Mouron S, Bueno MJ, Lluch A, Manso L, Calvo I, Cortes J, Garcia-Saenz JA, Gil-Gil M, Martinez-Janez N, Apala JV, Caleiras E, Ximénez-Embún P, Muñoz J, Gonzalez-Cortijo L, Murillo R, Sánchez-Bayona R, Cejalvo JM, Gómez-López G, Fustero-Torre C, Sabroso-Lasa S, Malats N, Martinez M, Moreno A, Megias D, **Malumbres M,** Colomer R, Quintela-Fandino M. (2022) Phosphoproteomic analysis of neoadjuvant breast cancer suggests that increased sensitivity to paclitaxel is driven by CDK4 and filamin A. *Nat Commun.* **13**, 7529. doi: 10.1038/s41467-022-35065-z. [PMID: 36477027]

207. Hidalgo, M., Garcia-Carbonero, R., Lim, K.H., Messersmith, W.A., Garrido-Laguna, I.,

Borazanci, E., Lowy, A.M., Medina Rodriguez, L., Laheru, D., Salvador-Barbero, B., **Malumbres, M.,** Shields, D.J., Grossman, J.E., Huang, X., Tammaro, M., Martini, J.F., Yu, Y., Kern, K., Macarulla, T. (2022) A Preclinical and Phase 1b Study of Palbociclib Plus Nab-Paclitaxel in Patients With Metastatic Adenocarcinoma of the Pancreas. *Cancer Res Commun.,* **2**, 1326–1333. https://doi.org/10.1158/2767-9764.CRC-22-0072.

206. Villarroya-Beltri C, Osorio A, Torres-Ruiz R, Gómez-Sánchez D, Trakala M, Sánchez-Belmonte A, Mercadillo F, Hurtado B, Pitarch B, Hernández-Núñez A, Gómez-Caturla A, Rueda D, Perea J, Rodríguez-Perales S*, **Malumbres M***, Urioste M*. (2022) Biallelic germline mutations in MAD1L1 induce a syndrome of aneuploidy with high tumor susceptibility. *Sci Adv*. **8**, eabq5914. doi: 10.1126/sciadv.abq5914. [PMID: 36322655] [*, co-corresponding]

205. Villarroya-Beltri C, **Malumbres M**. (2022) Mitotic Checkpoint Imbalances in Familial Cancer. *Cancer Res* **82**, 3432-3434. doi: 10.1158/0008-5472.CAN-22-2400. [PMID: 36193651]

204. Berenguer I, López-Jiménez P, Mena I, Viera A, Page J, González-Martínez J, Maestre C, **Malumbres M**, Suja JA, Gómez R. (2022) Haspin participates in AURKB recruitment to centromeres and contributes to chromosome congression in male mouse meiosis. J Cell Sci 135, jcs259546. doi: 10.1242/jcs.259546 [PMID: 35694956]

203. González-Martínez J, Cwetsch AW, Gilabert-Juan J, Gómez J, Garaulet G, Schneider P, de Cárcer G, Mulero F, Caleiras E, Megías D, Porlan E, **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**,1474-1485. doi: 10.1038/s41418-022-00937-w. [PMID: 35058575]

202. González-Martínez, J. and **Malumbres, M.** (2022) Expanding the Differentiation Potential of Already-Established Pluripotent Stem Cells. *Methods Mol Biol.* 2454, 95-107. doi: 10.1007/7651_2021_408. [PMID: 34128208]

201. González-Martínez, J., Cwetsch, A.W., Martínez-Alonso, D., López-Sainz, L.R., Almagro, J., Megías, D., Boskovic, J., Gilabert-Juan, J., Graña-Castro, O., Pierani, A., Behrens, A., Ortega, S. **Malumbres, M.** (2021) Deficient Adaptation to Centrosome Duplication Defects in Neural Progenitors Causes Microcephaly and Subcortical Heterotopias. *JCI Insights* **6**, e146364. doi: 10.1172/jci.insight.146364. [PMID: 34237032]

200. Galarreta, A., Valledor, P., Ubieto-Capella, P., Lafarga, V., Zarzuela, E., Muñoz, J., **Malumbres, M.,** Lecona, E. and Fernandez-Capetillo, O. (2021). USP7 limits CDK1 activity throughout the cell cycle *EMBO J* **40***,* e99692. doi: 10.15252/embj.201899692. [PMID: 33856059]

199. Alfaro, E., López-Jiménez, P., González-Martínez, J., **Malumbres, M.,** Suja, J.A., Gómez, R. (2021) PLK1 regulates centrosome migration and spindle dynamics in male mouse meiosis. *EMBO Rep*. **22**, e51030. doi: 10.15252/embr.202051030. [PMID: 33615693]

198. Yubero, M.L., Kosaka, P.M., San Paulo, A., **Malumbres, M.**, Calleja, M., Tamayo, J. (2020) Effects of energy metabolism on the mechanical properties of breast cancer cells. *Commun. Biol.* **3**, 590. [PMID: 33082491]

197. Salazar-Roa, M., Martínez-Martínez, S., Graña-Castro, O., Álvarez-Fernández, M., Trakala, M., Redondo, J.M., **Malumbres, M.** (2020) miR-203 imposes an intrinsic barrier during cellular reprogramming by targeting NFATC2. *bioRxiv*. https://doi.org/10.1101/2020.06.02.131136.

196. Salazar-Roa, M., Trakala, M., Álvarez-Fernández, M., Valdés-Mora, F., Zhong, C., Muñoz, J., Yu, Y., Peters, T.J., Graña-Castro, O., Serrano, R., Zapatero-Solana, E., Abad, M., Bueno, M.J., Gómez de Cedrón, M., Fernández-Piqueras, J., Serrano, M., Blasco, M.A., Wang, DZ.,

Clark, S.J., Izpisúa-Belmonte, J.C., Ortega, S., **Malumbres, M**. (2020) Transient exposure to miR-203 enhances the differentiation capacity of established pluripotent stem cells. *EMBO J*, **39**, e104324. *bioRxiv* 826446; doi: https://doi.org/10.1101/826446. [PMID: 32614092]

195. Martínez-Alonso, D. and **Malumbres, M.** (2020) Mammalian cell cycle cyclins. *Semin. Cell. Dev. Biol*., **107**, 28-35. [PMID: 32334991]

194. Álvarez-Fernández, M. and **Malumbres, M.** (2020) Mechanisms of sensitivity and resistance to CDK4/6 inhibitors. *Cancer Cell* **37**, 514-529. [PMID: 32289274]

193. Salvador-Barbero, B., Álvarez-Fernández, M., Zapatero-Solana, E., El Bakkali, A., Menéndez, M.C., López-Casas, P.P., Di Domenico, T., Xie, T., VanArsdale, T., Shields, D.J., Hidalgo, M. and **Malumbres, M.** (2020) CDK4/6 inhibitors impair recovery from cytotoxic chemotherapy in pancreatic adenocarcinoma. *Cancer Cell* **37**, 340-353. [PMID: 32109375]

192. Sanz-Gómez, N., de Pedro, I., Ortigosa, B., Santamaría, D., **Malumbres, M.**, de Carcer, G. and Gandarillas, A. (2020) Squamous differentiation requires G2/mitosis slippage to avoid apoptosis. *Cell Death Differ.*, **27**, 2451-2467. [PMID: 32080348]

191. Hermida, D., Mortuza, G.B., Pedersen, A.K., Pozdnyakova, I., Nguyen, T.T.T.N., Maroto, M., Williamson, M., Ebersole, T., Cazzamali, G., Rand, K., Olsen, J.V., **Malumbres, M.** and Montoya, G. (2020) Molecular basis of the mechanisms controlling MASTL. *Mol. Cell. Proteomics* **19**, 326-343. [PMID: 31852836]

190. Sashital, D., Blanpain, C., Cannon, B., Keeling, P., Ruffell, B., Rothenberg, E.V., Siekhaus, D., Schlessinger, A., **Malumbres, M.,** Brookfield, J., Arber, S., Morris, S., Hess, C., Qian, L., Martin-Villalba, A., Ffrench-Constant, C. (2019) Advice from Cell Press Reviewers. *Cell* **179**, 40-45 [PMID: 31526487]

189. Olbrich, T., Vega-Sendino, M., Murga, M., de Carcer, G., **Malumbres, M.**, Ortega, S., Ruiz, S. and Fernandez-Capetillo, O. (2019) A Chemical Screen Identifies Compounds Capable of Selecting for Haploidy in Mammalian Cells. *Cell Rep*. **28**, 597-604.e4 [PMID: 31315040]

188. Tomás-Loba, A., Manieri, E., González-Terán, B., Mora, A., Leiva-Vega, L., Santamans, A.M., Romero-Becerra, R., Rodríguez, E., Pintor-Chocano, A., Feixas, F., López, J.A., Caballero, B., Trakala, M., Blanco, O., Torres, J.L., Hernández-Cosido, L., Montalvo-Romeral, V., Matesanz, N., Roche-Molina, M., Bernal, J.A., Mischo, H., León, M., Caballero, A., Miranda-Saavedra, D., Ruiz-Cabello, J., Nevzorova, Y.A., Cubero, F.J., Bravo, J., Vázquez, J., **Malumbres, M.,** Marcos, M., Osuna, S. and Sabio, G. (2019) p38 is essential for cell cycle progression and liver tumourigenesis. *Nature* **568**, 557-560. [PMID: 30971822]

187. López-Nieva, P., Fernández-Navarro, P., Graña-Castro, O., Andrés-León, E., Santos, J., Villa-Morales, M., Cobos-Fernández, M.A., González-Sanchez, L., **Malumbres, M.**, Salazar-Roa, M. and Fernandez Piqueras, J. (2019) Detection of novel fusion-transcripts by RNA-Seq in T-cell lymphoblastic lymphoma. *Sci. Rep*., **9**, 5179. [PMID: 30914738]

186. Bustos-Morán, E., Blas-Rus, N., Alcaraz-Serna, A., Iborra, S., González-Martínez, J., **Malumbres, M.**, Sánchez-Madrid, F. (2019) Aurora A controls CD8+ T cell cytotoxic activity and antiviral response. *Sci Rep*. **9**, 2211. [PMID: 30778113]

185. Vázquez-Domínguez, I., González-Sánchez, L., López-Nieva, P., Fernández-Navarro, P., Villa-Morales, M., Cobos-Fernández, M.A., Sastre, I., Fraga, M.F., Fernández, A.F., **Malumbres, M.**, Salazar-Roa, M., Graña-Castro, O., Santos, J., Llamas, P., López-Lorenzo, J.L. and Fernández-Piqueras, J. (2019) Downregulation of specific FBXW7 isoforms with differential effects in T-cell lymphoblastic lymphoma. *Oncogene* **38**, 4620-4636. [PMID: 30742097]

184. **Malumbres, M.** (2019). CDK4/6 inhibitors: what is the best cocktail? *Clin. Cancer Res*. **25**, 6-

8. [PMID: 30089874]

183. Rata, S., Rodriguez, M.F.S.P., Joseph, S., Peter, N., Echegaray-Iturra, F., Yang, F., Madzwamuse, A., Ruppert, J.G., Samejima, K., Platani, M., Álvarez-Fernández, M., **Malumbres, M.**, Earnshaw, W.C., Novak, B. and Hochegger, H. (2018) Two interlinked bistable switches govern mitotic control in mammalian cells. *Curr. Biol*. **28**, 3824-3832. [PMID: 30449668].

182. Nguyen, A.L., Drutovic, D., Vázquez, V.N., El Yakoub, W., Gentilello, A.S., **Malumbres, M**., Solc, P. and Schindler, K. (2018) Genetic interactions between the Aurora kinases reveal new requirements for AURKB and AURKC during oocyte meiosis. *Curr. Biol.* **28**, 3458-3468.e5. [PMID: 30415701]

181. Hurtado, B., Trakala, M., Ximénez-Embún, P., El Bakkali, A., Partida, D., Sanz-Castillo, B., Álvarez-Fernández, M., Maroto, M., Sánchez-Martínez, R., Martínez, L., Muñoz, J., García de Frutos, P. & **Malumbres, M.** (2018) Thrombocytopenia-associated mutations in Ser/Thr kinase MASTL deregulate actin cytoskeletal dynamics in platelets. *J. Clin. Invest.* **128**, 5351-5367. [PMID: 30252678]

180. Ovejero, S., Ayala, P., **Malumbres, M.,** Pimentel-Muiños, F.X., Bueno, A. and Sacristán, M.P. (2018) Biochemical analyses reveal amino acid residues critical for cell cycle-dependent phosphorylation of human Cdc14A phosphatase by cyclin-dependent kinase 1. *Sci. Rep*. **8**, 11871 [PMID: 30089874]. *bioRxiv* 242016; doi: https://doi.org/10.1101/242016

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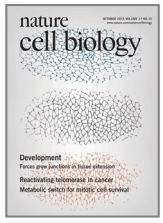

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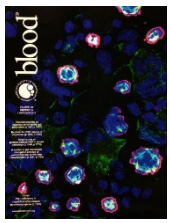

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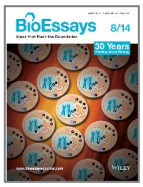

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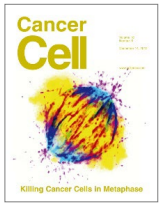

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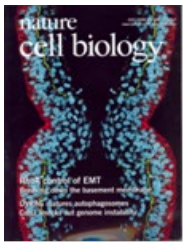

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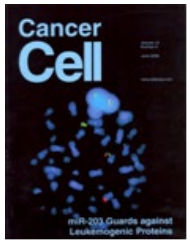

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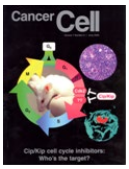

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