
Artículos de la RTICCC en Modelos Animales

October 10, 2005

Perez-Mancera PA, Perez-Carol M, Gonzalez-Herrero I, Flores T, Orfao A, de Herreros A G, Gutierrez-Adan A, Pintado B, Sagrera A, Sanchez-Martin M, Sanchez-Garcia I. Cancer development induced by graded expression of Snail in mice. *Hum Mol Genet.* 2005 Oct 5; [Epub ahead of print]

Savignac M, Pintado B, Gutierrez-Adan A, Palczewska M, Mellstrom B, Naranjo JR. Transcriptional repressor DREAM regulates T-lymphocyte proliferation and cytokine gene expression. *EMBO J.* 2005 Sep 22; [Epub ahead of print]

Lavado A, Montoliu L. New animal models to study the role of tyrosinase in normal retinal development. *Front Biosci.* 2006 Jan 1;11:743-52.

Munoz P, Blanco R, Flores JM, Blasco MA. XPF nuclease-dependent telomere loss and increased DNA damage in mice overexpressing TRF2 result in premature aging and cancer. *Nat Genet.* 2005 Oct;37(10):1063-71. Epub 2005 Sep 4.

Venero C, Guadano-Ferraz A, Herrero AI, Nordstrom K, Manzano J, de Escobar GM, Bernal J, Vennstrom B. Anxiety, memory impairment, and locomotor dysfunction caused by a mutant thyroid hormone receptor alpha1 can be ameliorated by T3 treatment. *Genes Dev.* 2005 Sep 15;19(18):2152-63. Epub 2005 Aug 30.

Futterer A, Campanero MR, Leonardo E, Criado LM, Flores JM, Hernandez JM, San Miguel JF, Martinez-A C. Dido gene expression alterations are implicated in the induction of hematological myeloid neoplasms. *J Clin Invest.* 2005 Sep 1;115(9):2351-2362. Epub 2005 Aug 25.

PMID: 16127461 [PubMed - as supplied by publisher]

Barber DF, Bartolome A, Hernandez C, Flores JM, Redondo C, Fernandez-Arias C, Camps M, Ruckle T, Schwarz MK, Rodriguez S, Martinez-A C, Balomenos D, Rommel C, Carrera AC. PI3Kgamma inhibition blocks glomerulonephritis and extends lifespan in a mouse model of systemic lupus. *Nat Med.* 2005 Sep;11(9):933-5. Epub 2005 Aug 28.

Ribe EM, Perez M, Puig B, Gich I, Lim F, Cuadrado M, Sesma T, Catena S, Sanchez B, Nieto M, Gomez-Ramos P, Moran MA, Cabodevilla F, Samaranch L, Ortiz L, Perez A, Ferrer I, Avila J, Gomez-Isla T. Accelerated amyloid deposition, neurofibrillary degeneration and neuronal loss in double mutant APP/tau transgenic mice. *Neurobiol Dis.* 2005 Aug 23; [Epub ahead of print]

Gurzov EN, Izquierdo M. RNA interference against Hec1 inhibits tumor growth in vivo. *Gene Ther.* 2005 Aug 25; [Epub ahead of print]

Collado M, Gil J, Efeyan A, Guerra C, Schuhmacher AJ, Barradas M, Benguria A, Zaballos A, Flores JM, Barbacid M, Beach D, Serrano M. Tumour biology: senescence in premalignant tumours. *Nature.* 2005 Aug 4;436(7051):642.

Varela I, Cadinanos J, Pendas AM, Gutierrez-Fernandez A, Folgueras AR, Sanchez LM, Zhou Z, Rodriguez FJ, Stewart CL, Vega JA, Tryggvason K, Freije JM, Lopez-Otin C. Accelerated ageing in mice deficient in Zmpste24 protease is linked to p53 signalling activation. *Nature.* 2005 Sep 22;437(7058):564-8. Epub 2005 Aug 3.

Flores I, Cayuela ML, Blasco MA. Effects of telomerase and telomere length on epidermal stem cell behavior. *Science.* 2005 Aug 19;309(5738):1253-6. Epub 2005 Jul 21.

Casarejos MJ, Solano RM, Menendez J, Rodriguez-Navarro JA, Correa C, Garcia de Yébenes J, Mena MA. Differential effects of l-DOPA on monoamine metabolism, cell survival and glutathione production in midbrain neuronal-enriched cultures from parkin knockout and wild-type mice. *J Neurochem.* 2005 Aug;94(4):1005-14. Epub 2005 Jul 5.

Ramirez de Molina A, Gallego-Ortega D, Sarmentero J, Banez-Coronel M, Martin-Cantalejo Y, Lacal JC. Choline kinase is a novel oncogene that potentiates RhoA-induced carcinogenesis. *Cancer Res.* 2005 Jul 1;65(13):5647-53.

Martin A, Odajima J, Hunt SL, Dubus P, Ortega S, Malumbres M, Barbacid M. Cdk2 is dispensable for cell cycle inhibition and tumor suppression mediated by p27(Kip1) and p21(Cip1). *Cancer Cell.* 2005 Jun;7(6):591-8. PMID: 15950907 [PubMed - in process]

Malumbres M. Revisiting the "Cdk-centric" view of the mammalian cell cycle. *Cell Cycle.* 2005 Feb;4(2):206-10. Epub 2005 Feb 3. PMID: 15655365 [PubMed - in process]

Perez-Gomez E, Eleno N, Lopez-Novoa JM, Ramon Ramirez J, Velasco B, Letarte M, Bernabeu C, Quintanilla M. Characterization of murine S-endoglin isoform and its effects on tumor development. *Oncogene.* 2005 Apr 4; [Epub ahead of print] PMID: 15806144 [PubMed - as supplied by publisher]

Santos M, Rio P, Ruiz S, Martinez-Palacio J, Segrelles C, Lara MF, Segovia JC, Paramio JM. Altered T cell differentiation and Notch signaling induced by the ectopic expression of

keratin K10 in the epithelial cells of the thymus. *J Cell Biochem.* 2005 Jun 1;95(3):543-58. PMID: 15786499 [PubMed - in process]

Escobar-Diaz E, Lopez-Martin EM, Hernandez del Cerro M, Puig-Kroger A, Soto-Cerrato V, Montaner B, Giralt E, Garcia-Marco JA, Perez-Tomas R, Garcia-Pardo A. AT514, a cyclic depsipeptide from *Serratia marcescens*, induces apoptosis of B-chronic lymphocytic leukemia cells: interference with the Akt/NF-kappaB survival pathway. *Leukemia.* 2005 Apr;19(4):572-9. PMID: 15744353 [PubMed - indexed for MEDLINE]

Sotillo R, Renner O, Dubus P, Ruiz-Cabello J, Martin-Caballero J, Barbacid M, Carnero A, Malumbres M. Cooperation between Cdk4 and p27kip1 in tumor development: a preclinical model to evaluate cell cycle inhibitors with therapeutic activity. *Cancer Res.* 2005 May 1;65(9):3846-52. PMID: 15867383 [PubMed - in process]

Steitz J, Buchs S, Tormo D, Ferrer A, Wenzel J, Huber C, Wolfel T, Barbacid M, Malumbres M, Tuting T. Evaluation of genetic melanoma vaccines in cdk4-mutant mice provides evidence for immunological tolerance against autochthonous melanomas in the skin. *Int J Cancer.* 2005 Jul 27; [Epub ahead of print]

Perez-Mancera PA, Gonzalez-Herrero I, Perez-Caro M, Gutierrez-Cianca N, Flores T, Gutierrez-Adan A, Pintado B, Sanchez-Martin M, Sanchez-Garcia I. SLUG in cancer development. *Oncogene.* 2005 Apr 28;24(19):3073-82. PMID: 15735690 [PubMed - indexed for MEDLINE]

Gonzalo S, Garcia-Cao M, Fraga MF, Schotta G, Peters AH, Cotter SE, Eguia R, Dean DC, Esteller M, Jenuwein T, Blasco MA. Role of the RB1 family in stabilizing histone methylation at constitutive heterochromatin. *Nat Cell Biol.* 2005 Apr;7(4):420-8. Epub 2005 Mar 6. PMID: 15750587 [PubMed - indexed for MEDLINE]

Viniegra JG, Martinez N, Modirassari P, Losa JH, Parada Cobo C, Lobo VJ, Luquero CI, Alvarez-Vallina L, Ramon y Cajal S, Rojas JM, Sanchez-Prieto R. Full activation of PKB/Akt in response to insulin or ionizing radiation is mediated through ATM. *J Biol Chem.* 2005 Feb 11;280(6):4029-36. Epub 2004 Nov 15. PMID: 15546863 [PubMed - indexed for MEDLINE]

Pantoja C, de Los Rios L, Matheu A, Antequera F, Serrano M. Related Articles, Links Inactivation of imprinted genes induced by cellular stress and tumorigenesis. *Cancer Res.* 2005 Jan 1;65(1):26-33. PMID: 15665276 [PubMed - indexed for MEDLINE]

Piruat JI, Pintado CO, Ortega-Saenz P, Roche M, Lopez-Barneo J. The mitochondrial SDHD gene is required for early embryogenesis, and its partial deficiency results in persistent carotid body glomus cell activation with full responsiveness to hypoxia. *Mol Cell Biol.* 2004 Dec;24(24):10933-40. PMID: 15572694 [PubMed - indexed for MEDLINE]

Auwerx J, Avner P, Baldock R, Ballabio A, Balling R, Barbacid M, Berns A, Bradley A, Brown S, Carmeliet P, Chambon P, Cox R, Davidson D, Davies K, Duboule D, Forejt J, Granucci F, Hastie N, de Angelis MH, Jackson I, Kioussis D, Kollias G, Lathrop M,

Lendahl U, Malumbres M, von Melchner H, Muller W, Partanen J, Ricciardi-Castagnoli P, Rigby P, Rosen B, Rosenthal N, Skarnes B, Stewart AF, Thornton J, Tocchini-Valentini G, Wagner E, Wahli W, Wurst W. The European dimension for the mouse genome mutagenesis program. *Nat Genet.* 2004 Sep;36(9):925-7. Erratum in: *Nat Genet.* 2004 Nov;36(11):1238.

Piruat JI, Pintado CO, Ortega-Saenz P, Roche M, Lopez-Barneo J. The mitochondrial SDHD gene is required for early embryogenesis, and its partial deficiency results in persistent carotid body glomus cell activation with full responsiveness to hypoxia. *Mol Cell Biol.* 2004 Dec;24(24):10933-40. PMID: 15572694 [PubMed - indexed for MEDLINE]

Aguilera C, Hoya-Arias R, Haegeman G, Espinosa L, Bigas A. Related Articles, Links Recruitment of IkappaBalpha to the hes1 promoter is associated with transcriptional repression. *Proc Natl Acad Sci U S A.* 2004 Nov 23;101(47):16537-42. Epub 2004 Nov 9. PMID: 15536134 [PubMed - indexed for MEDLINE]

Espejel S, Klatt P, Menissier-de Murcia J, Martin-Caballero J, Flores JM, Taccioli G, de Murcia G, Blasco MA. Impact of telomerase ablation on organismal viability, aging, and tumorigenesis in mice lacking the DNA repair proteins PARP-1, Ku86, or DNA-PKcs. *J Cell Biol.* 2004 Nov 22;167(4):627-38. Epub 2004 Nov 15. PMID: 15545322 [PubMed - indexed for MEDLINE]

Matheu A, Pantoja C, Efeyan A, Criado LM, Martin-Caballero J, Flores JM, Klatt P, Serrano M. Increased gene dosage of Ink4a/Arf results in cancer resistance and normal aging. *Genes Dev.* 2004 Nov 15;18(22):2736-46. Epub 2004 Nov 1. PMID: 15520276 [PubMed - indexed for MEDLINE]

Planelles L, Carvalho-Pinto CE, Hardenberg G, Smaniotto S, Savino W, Gomez-Caro R, Alvarez-Mon M, de Jong J, Eldering E, Martinez-A C, Medema JP, Hahne M. APRIL promotes B-1 cell-associated neoplasm. *Cancer Cell.* 2004 Oct;6(4):399-408. PMID: 15488762 [PubMed - indexed for MEDLINE]

Aguilar S, Corominas JM, Malats N, Pereira JA, Dufresne M, Real FX, Navarro P. Tissue plasminogen activator in murine exocrine pancreas cancer: selective expression in ductal tumors and contribution to cancer progression. *Am J Pathol.* 2004 Oct;165(4):1129-39. PMID: 15466380 [PubMed - indexed for MEDLINE]

Carbo N, Costelli P, Busquets S, Lopez-Soriano J, Lopez-Soriano FJ, Baccino FM, Argiles JM. Effect of c-ski overexpression on the development of cachexia in mice bearing the Lewis lung carcinoma. *Int J Mol Med.* 2004 Oct;14(4):719-23. PMID: 15375607 [PubMed - indexed for MEDLINE]

Malumbres M, Sotillo R, Santamaria D, Galan J, Cerezo A, Ortega S, Dubus P, Barbacid M. Mammalian cells cycle without the D-type cyclin-dependent kinases Cdk4 and Cdk6. *Cell.* 2004 Aug 20;118(4):493-504. PMID: 15315761 [PubMed - indexed for MEDLINE]

Morilla-Grasa A. Animal models in uveal melanoma: establishment and research. *Can J Ophthalmol.* 2004 Jun;39(4):433-40. Review. PMID: 15327110 [PubMed - indexed for MEDLINE]

Casanova ML, Bravo A, Martinez-Palacio J, Fernandez-Acenero MJ, Villanueva C, Larcher F, Conti CJ, Jorcano JL. Epidermal abnormalities and increased malignancy of skin tumors in human epidermal keratin 8-expressing transgenic mice. *FASEB J.* 2004 Oct;18(13):1556-8. Epub 2004 Aug 19. PMID: 15319370 [PubMed - indexed for MEDLINE]

Vicente R, Coma M, Busquets S, Moore-Carrasco R, Lopez-Soriano FJ, Argiles JM, Felipe A. The systemic inflammatory response is involved in the regulation of K(+) channel expression in brain via TNF-alpha-dependent and -independent pathways. *FEBS Lett.* 2004 Aug 13;572(1-3):189-94. PMID: 15304346 [PubMed - indexed for MEDLINE]

Gimenez E, Lavado A, Giraldo P, Cozar P, Jeffery G, Montoliu L. A transgenic mouse model with inducible Tyrosinase gene expression using the tetracycline (Tet-on) system allows regulated rescue of abnormal chiasmatic projections found in albinism. *Pigment Cell Res.* 2004 Aug;17(4):363-70. Erratum in: *Pigment Cell Res.* 2005 Jun;18(3):224. PMID: 15250938 [PubMed - indexed for MEDLINE]

Suarez E, Yanez R, Barrios Y, Diaz-Espada F. Human monoclonal antibodies produced in transgenic BABkappa,lambda mice recognising idiotypic immunoglobulins of human lymphoma cells. *Mol Immunol.* 2004 Jul;41(5):519-26. PMID: 15183930 [PubMed - indexed for MEDLINE]

Pendas AM, Folgueras AR, Llano E, Caterina J, Frerard F, Rodriguez F, Astudillo A, Noel A, Birkedal-Hansen H, Lopez-Otin C. Diet-induced obesity and reduced skin cancer susceptibility in matrix metalloproteinase 19-deficient mice. *Mol Cell Biol.* 2004 Jun;24(12):5304-13. PMID: 15169894 [PubMed - indexed for MEDLINE]

Canela A, Martin-Caballero J, Flores JM, Blasco MA. Constitutive expression of tert in thymocytes leads to increased incidence and dissemination of T-cell lymphoma in Lck-Tert mice. *Mol Cell Biol.* 2004 May;24(10):4275-93. PMID: 15121848 [PubMed - indexed for MEDLINE]

Espejel S, Martin M, Klatt P, Martin-Caballero J, Flores JM, Blasco MA. Shorter telomeres, accelerated ageing and increased lymphoma in DNA-PKcs-deficient mice. *EMBO Rep.* 2004 May;5(5):503-9. Epub 2004 Apr 23. PMID: 15105825 [PubMed - indexed for MEDLINE]

Ruiz M, Kobayashi H, Lasarte JJ, Prieto J, Borrás-Cuesta F, Celis E, Sarobe P. Identification and characterization of a T-helper peptide from carcinoembryonic antigen. *Clin Cancer Res.* 2004 Apr 15;10(8):2860-7. PMID: 15102695 [PubMed - indexed for MEDLINE]

Algarra I, Garcia-Lora A, Cabrera T, Ruiz-Cabello F, Garrido F. The selection of tumor variants with altered expression of classical and nonclassical MHC class I molecules:

implications for tumor immune escape. *Cancer Immunol Immunother.* 2004 Oct;53(10):904-10. Epub 2004 Apr 7. Review. PMID: 15069585 [PubMed - indexed for MEDLINE]

Leis H, Page A, Ramirez A, Bravo A, Segrelles C, Paramio J, Baretino D, Jorcano JL, Perez P. Glucocorticoid Receptor Counteracts Tumorigenic Activity of Akt in Skin through Interference with the Phosphatidylinositol 3-Kinase Signaling Pathway. *Mol Endocrinol.* 2004 Feb;18(2):303-11. Epub 2003 Nov 13. PMID: 14615607 [PubMed - indexed for MEDLINE]

Diez-Juan A, Perez P, Aracil M, Sancho D, Bernad A, Sanchez-Madrid F, Andres V. Selective inactivation of p27(Kip1) in hematopoietic progenitor cells increases neointimal macrophage proliferation and accelerates atherosclerosis. *Blood.* 2004 Jan 1;103(1):158-61. Epub 2003 Sep 22. PMID: 14504088 [PubMed - indexed for MEDLINE]

Casares N, Arribillaga L, Sarobe P, Dotor J, Lopez-Diaz de Cerio A, Melero I, Prieto J, Borrás-Cuesta F, Lasarte JJ. CD4⁺/CD25⁺ regulatory cells inhibit activation of tumor-primed CD4⁺ T cells with IFN-gamma-dependent antiangiogenic activity, as well as long-lasting tumor immunity elicited by peptide vaccine. *J Immunol.* 2003 Dec 1;171(11):5931-9. PMID: 14634104 [PubMed - indexed for MEDLINE]

Gonzalez-Suarez E, Goytisolo FA, Flores JM, Blasco MA. Telomere dysfunction results in enalkylating agent N-methyl-N-nitrosoCancer Res. 2003 Nov 1;63(21):7047-50.

Quintano B, Letarte M, Lopez-Novoa eu C. Expression of the TGF-beta coreceptor endogins dual role in multistage mouse skgOncogene. 2003 Sep 4;22(38):5976-85. P

Blasco MA. Mammalian telomeres and telomEur J Cell Biol. 2003 Sep;82(9):441-6. PMID: 14582532 [PubMed - indexed for MEDLINE]

Balbinlo A, Overall CM, Shapiro SD Loss of collagenase-2 confers increaseNat Genet. 2003 Nov;35(3):252-7. Epub 2003 Sep 28.

Ortega S, Prieto I, Odajima J, Martin A, Dubus P, Sotillo R, Barbero JL, Malumbres M, Barbacid M. Cyclin-dependent kinase 2 is essential for meiosis but not for mitotic cell division in mice. *Nat Genet.* 2003 Sep;35(1):25-31. Epub 2003 Aug 17.

Guerra C, Mijimolle N, Dhawahir A, Dubus P, Barradas M, Serrano M, Campuzano V, Barbacid M. Tumor induction by an endogenous K-ras oncogene is highly dependent on cellular context. *Cancer Cell.* 2003 Aug;4(2):111-20.

Quintano B, Letarte M, Lopez-Novoa Expression of the TGF-beta coreceptor endoglin in epidermal keratinocytes and its dual role in multistage mouse skin carcinogenesis. *Oncogene.* 2003 Sep 4;22(38):5976-85. PMID: 12955076 [PubMed - indexed for MEDLINE]

Roza C, Laird JM, Souslova V, Wood JN, Cervero F. The tetrodotoxin-resistant Na⁺ channel Nav1.8 is essential for the expression of spontaneous activity in damaged sensory axons of mice. *J Physiol*. 2003 Aug 1;550(Pt 3):921-6. Epub 2003 Jun 24. PMID: 12824446 [PubMed - indexed for MEDLINE]

Sanchez-Barcelo EJ, Cos S, Fernandez R, Mediavilla MD. Melatonin and mammary cancer: a short review. *Endocr Relat Cancer*. 2003 Jun;10(2):153-9. Review. PMID: 12790777 [PubMed - indexed for MEDLINE]

Klatt P, Serrano M. Engineering cancer resistance in mice. *Carcinogenesis*. 2003 May;24(5):817-26. Review. PMID: 12771024 [PubMed - indexed for MEDLINE]

Font de Mora J, Esteban LM, Burks DJ, Nunez A, Garces C, Garcia-Barrado MJ, Iglesias-Osma MC, Moratinos J, Ward JM, Santos E. Ras-GRF1 signaling is required for normal beta-cell development and glucose homeostasis. *EMBO J*. 2003 Jun 16;22(12):3039-49. PMID: 12805218 [PubMed - indexed for MEDLINE]

Blasco MA. Telomeres in cancer and aging: lessons from the mouse. *Cancer Lett*. 2003 May 15;194(2):183-8. Review. PMID: 12757976 [PubMed - indexed for MEDLINE]

Santos M, Perez P, Segrelles C, Ruiz S, Jorcano JL, Paramio JM. Impaired NF-kappa B activation and increased production of tumor necrosis factor alpha in transgenic mice expressing keratin K10 in the basal layer of the epidermis. *J Biol Chem*. 2003 Apr 11;278(15):13422-30. Epub 2003 Feb 1. PMID: 12566451 [PubMed - indexed for MEDLINE]

Garcia-Cao I, Lafuente MJ, Criado LM, Diaz-Meco MT, Serrano M, Moscat J. Genetic inactivation of Par4 results in hyperactivation of NF-kappaB and impairment of JNK and p38. *EMBO Rep*. 2003 Mar;4(3):307-12. PMID: 12634851 [PubMed - indexed for MEDLINE]

