

Publications

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BOCCHETTA

Baker A, Wyatt D, **Bocchetta M**, Li J, Filipovic A, Green A, Peiffer DS, Fuqua S, Miele L, Albain KS, Osipo C. **Notch-1-PTEN-ERK1/2 signaling axis promotes HER2+ breast cancer cell proliferation and stem cell survival.** *Oncogene*. 2018 Aug;37(33):4489-4504. doi: 10.1038/s41388-018-0251-y. Epub 2018 May 10. PMID: 29743588.

Sobol A, Askonas C, Alani S, Weber MJ, Ananthanarayanan V, Osipo C, **Bocchetta M. Deubiquitinase OTUD6B Isoforms Are Important Regulators of Growth and Proliferation.** *Mol Cancer Res*. 2017 Feb;15(2):117-127. doi: 10.1158/1541-7786.MCR-16-0281-T. Epub 2016 Nov 18. PMID: 27864334; PMCID: PMC5290186.

Yun J, Espinoza I, Pannuti A, Romero D, Martinez L, Caskey M, Stanculescu A, **Bocchetta M**, Rizzo P, ..., Miele L. **p53 Modulates Notch Signaling in MCF-7 Breast Cancer Cells by Associating With the Notch Transcriptional Complex Via MAML1.** *J Cell Physiol*. 2015 Dec;230(12):3115-27. doi: 10.1002/jcp.25052. PMID: 26033683; PMCID: PMC4549197.

Barse L, **Bocchetta M. Non-small-cell lung carcinoma: role of the Notch signaling pathway.** *Lung Cancer (Auckl)*. 2015 Jun 26;6:43-53. doi: 10.2147/LCTT.S60329. PMID: 28210150; PMCID: PMC5217522.

Sobol A, Galluzzo P, Weber MJ, Alani S, **Bocchetta M. Depletion of Amyloid Precursor Protein (APP) causes G0 arrest in non-small cell lung cancer (NSCLC) cells.** *J Cell Physiol*. 2015 Jun;230(6):1332-41. doi: 10.1002/jcp.24875. PMID: 25502341; PMCID: PMC4445075.

Sobol A, Galluzzo P, Liang S, Rambo B, Skucha S, Weber MJ, Alani S, **Bocchetta M. Amyloid precursor protein (APP) affects global protein synthesis in dividing human cells.** *J Cell Physiol*. 2015 May;230(5):1064-74. doi: 10.1002/jcp.24835. PMID: 25283437; PMCID: PMC4445069.

Liang S, Galluzzo P, Sobol A, Skucha S, Rambo B, **Bocchetta M. Multimodality Approaches to Treat Hypoxic Non-Small Cell Lung Cancer (NSCLC) Microenvironment.** *Genes Cancer*. 2012 Feb;3(2):141-51. doi: 10.1177/1947601912457025. PMID: 23050046; PMCID: PMC3463922.

Galluzzo P, **Bocchetta M. Notch signaling in lung cancer.** *Expert Rev Anticancer Ther*. 2011 Apr;11(4):533-40. doi: 10.1586/era.10.158. PMID: 21504320; PMCID: PMC3380361.

Zhang L, Qi F, Gaudino G, Strianese O, Yang H, Morris P, Pass HI, Nerurkar VR, **Bocchetta M**, Carbone M. **Tissue Tropism of SV40 Transformation of Human Cells: Role of the Viral Regulatory Region and of Cellular Oncogenes.** *Genes Cancer*. 2010 Oct;1(10):1008-20. doi: 10.1177/1947601910395580. PMID: 21779427; PMCID: PMC3092263.

Elias S, Liang S, Chen Y, De Marco MA, Machek O, Skucha S, Miele L, **Bocchetta M. Notch-1 stimulates survival of lung adenocarcinoma cells during hypoxia by activating the IGF-1R pathway.** *Oncogene*. 2010 Apr 29;29(17):2488-98. doi: 10.1038/onc.2010.7. Epub 2010 Feb 15. PMID: 20154720; PMCID: PMC2861728.

Graziani I, Elias S, De Marco MA, Chen Y, Pass HI, De May RM, Strack PR, Miele L, **Bocchetta M**. **Opposite effects of Notch-1 and Notch-2 on mesothelioma cell survival under hypoxia are exerted through the Akt pathway**. *Cancer Res.* 2008 Dec 1;68(23):9678-85. doi: 10.1158/0008-5472.CAN-08-0969. PMID: 19047145.

Carbone M, Pannuti A, Zhang L, Testa JR, **Bocchetta M**. **A novel mechanism of late gene silencing drives SV40 transformation of human mesothelial cells**. *Cancer Res.* 2008 Nov 15;68(22):9488-96. doi: 10.1158/0008-5472.CAN-08-2332. PMID: 19010924; PMCID: PMC2666620.

Bocchetta M, Elias S, De Marco MA, Rudzinski J, Zhang L, Carbone M. **The SV40 large T antigen-p53 complexes bind and activate the insulin-like growth factor-I promoter stimulating cell growth**. *Cancer Res.* 2008 Feb 15;68(4):1022-9. doi: 10.1158/0008-5472.CAN-07-5203. PMID: 18281476.

Bocchetta M, Carbone M. **SV40 Tag/p53 complexes actively promote malignant cell growth of human mesothelial cells**. *Cell Oncol.* 2008;30(5):455. doi: 10.3233/clo-2008-0446. PMID: 18853526; PMCID: PMC4618968.

Chen Y, De Marco MA, Graziani I, Gazdar AF, Strack PR, Miele L, **Bocchetta M**. **Oxygen concentration determines the biological effects of NOTCH-1 signaling in adenocarcinoma of the lung**. *Cancer Res.* 2007 Sep 1;67(17):7954-9. doi: 10.1158/0008-5472.CAN-07-1229. PMID: 17804701.

Kroczyńska B, Cutrone R, **Bocchetta M**, Yang H, Elmishad AG, Vacek P, Ramos-Nino M, Mossman BT, Pass HI, Carbone M. **Crocidolite asbestos and SV40 are cocarcinogens in human mesothelial cells and in causing mesothelioma in hamsters**. *Proc Natl Acad Sci U S A.* 2006 Sep 19;103(38):14128-33. doi: 10.1073/pnas.0604544103. Epub 2006 Sep 11. PMID: 16966607; PMCID: PMC1599923.

Ramos-Nino ME, Testa JR, Altomare DA, Pass HI, Carbone M, **Bocchetta M**, Mossman BT. **Cellular and molecular parameters of mesothelioma**. *J Cell Biochem.* 2006 Jul 1;98(4):723-34. doi: 10.1002/jcb.20828. PMID: 16795078; PMCID: PMC2766267.

Yang H, **Bocchetta M**, Kroczyńska B, Elmishad AG, Chen Y, Liu Z, Bubici C, Mossman BT, Pass HI, ..., Carbone M. **TNF-alpha inhibits asbestos-induced cytotoxicity via a NF-kappaB-dependent pathway, a possible mechanism for asbestos-induced oncogenesis**. *Proc Natl Acad Sci U S A.* 2006 Jul 5;103(27):10397-10402. doi: 10.1073/pnas.0604008103. Epub 2006 Jun 23. PMID: 16798876; PMCID: PMC1502469.

Elmishad AG, **Bocchetta M**, Pass HI, Carbone M. **Polio vaccines, SV40 and human tumours, an update on false positive and false negative results**. *Dev Biol (Basel).* 2006;123:109-17; discussion 119-32. PMID: 16566440.

Cutrone R, Lednicky J, Dunn G, Rizzo P, **Bocchetta M**, Chumakov K, Minor P, Carbone M. **Some oral poliovirus vaccines were contaminated with infectious SV40 after 1961**. *Cancer Res.* 2005 Nov 15;65(22):10273-9. doi: 10.1158/0008-5472.CAN-05-2028. PMID: 16288015.

Carbone M, Rdzanek MA, Rudzinski JJ, De Marco MA, **Bocchetta M**, Ramos Niño M, Mossman B, Pass HI. **SV40 detection in human tumor specimens**. *Cancer Res.* 2005 Nov 1;65(21):10120-1. doi: 10.1158/0008-5472.CAN-05-1911. PMID: 16267039.

Pass HI, **Bocchetta M**, Carbone M. **Evidence of an important role for SV40 in mesothelioma.** Thorac Surg Clin. 2004 Nov;14(4):489-95. doi: 10.1016/j.thorsurg.2004.06.003. PMID: 15559055.

Lednicky JA, Dubach J, Kinsel MJ, Meehan TP, **Bocchetta M**, Hungerford LL, Sarich NA, Witecki KE, Braid MD, Pedrak C, Houde CM. **Genetically distant American Canine distemper virus lineages have recently caused epizootics with somewhat different characteristics in raccoons living around a large suburban zoo in the USA.** Virol J. 2004 Sep 2;1:2. doi: 10.1186/1743-422X-1-2. PMID: 15507154; PMCID: PMC524033.

Bocchetta M, Carbone M. **Epidemiology and molecular pathology at crossroads to establish causation: molecular mechanisms of malignant transformation.** Oncogene. 2004 Aug 23;23(38):6484-91. doi: 10.1038/sj.onc.1207855. PMID: 15322519.

Carbone M, **Bocchetta M**. **SV40 and Notch-I: multi-functionality meets pleiotropy.** Prog Mol Subcell Biol. 2004;36:289-305. doi: 10.1007/978-3-540-74264-7_14. PMID: 15171617.

Carbone M, Rudzinski J, **Bocchetta M**. **High throughput testing of the SV40 Large T antigen binding to cellular p53 identifies putative drugs for the treatment of SV40-related cancers.** Virology. 2003 Oct 25;315(2):409-14. doi: 10.1016/s0042-6822(03)00547-6. PMID: 14585344.

Carbone M, Burck C, Rdzanek M, Rudzinski J, Cutrone R, **Bocchetta M**. **Different susceptibility of human mesothelial cells to polyomavirus infection and malignant transformation.** Cancer Res. 2003 Oct 1;63(19):6125-9. PMID: 14559789.

Carbone M, Pass HI, Miele L, **Bocchetta M**. **New developments about the association of SV40 with human mesothelioma.** Oncogene. 2003 Aug 11;22(33):5173-80. doi: 10.1038/sj.onc.1206552. PMID: 12910254.

Carbone M, **Bocchetta M**, Cristaudo A, Emri S, Gazdar A, Jasani B, Lednicky J, Miele L, Mutti L, ..., Yeung A. **SV40 and human brain tumors.** Int J Cancer. 2003 Aug 10;106(1):140-2; author reply 143-5. doi: 10.1002/ijc.11189. PMID: 12794770.

Le Poole IC, Bommiasamy H, **Bocchetta M**, Kast WM. **Advances in prophylactic cancer vaccine research.** Expert Rev Anticancer Ther. 2003 Aug;3(4):537-45. doi: 10.1586/14737140.3.4.537. PMID: 12934665.

Bocchetta M, Miele L, Pass HI, Carbone M. **Notch-1 induction, a novel activity of SV40 required for growth of SV40-transformed human mesothelial cells.** Oncogene. 2003 Jan 9;22(1):81-9. doi: 10.1038/sj.onc.1206097. PMID: 12527910.

Carbone M, Rizzo P, Powers A, **Bocchetta M**, Fresco R, Krausz T. **Molecular analyses, morphology and immunohistochemistry together differentiate pleural synovial sarcomas from mesotheliomas: clinical implications.** Anticancer Res. 2002 Nov-Dec;22(6B):3443-8. PMID: 12552937.

Toyooka S, Carbone M, Toyooka KO, **Bocchetta M**, Shivapurkar N, Minna JD, Gazdar AF. **Progressive aberrant methylation of the RASSF1A gene in simian virus 40 infected human mesothelial cells.** Oncogene. 2002 Jun 20;21(27):4340-4. doi: 10.1038/sj.onc.1205381. PMID: 12082623.

Foddis R, De Rienzo A, Broccoli D, **Bocchetta M**, Stekala E, Rizzo P, Tosolini A, Grobelny JV, Jhanwar SC, ..., Carbone M. **SV40 infection induces telomerase activity in human mesothelial cells**. *Oncogene*. 2002 Feb 21;21(9):1434-42. doi: 10.1038/sj.onc.1205203. PMID: 11857086.

Rizzo P, **Bocchetta M**, Powers A, Foddis R, Stekala E, Pass HI, Carbone M. **SV40 and the pathogenesis of mesothelioma**. *Semin Cancer Biol*. 2001 Feb;11(1):63-71. doi: 10.1006/scbi.2000.0347. PMID: 11243900.

Bocchetta M, Xiong L, Shah S, Mankin AS. **Interactions between 23S rRNA and tRNA in the ribosomal E site**. *RNA*. 2001 Jan;7(1):54-63. doi: 10.1017/s1355838201001650. PMID: 11214181; PMCID: PMC1370069.

Bocchetta M, Di Resta I, Powers A, Fresco R, Tosolini A, Testa JR, Pass HI, Rizzo P, Carbone M. **Human mesothelial cells are unusually susceptible to simian virus 40-mediated transformation and asbestos cocarcinogenicity**. *Proc Natl Acad Sci U S A*. 2000 Aug 29;97(18):10214-9. doi: 10.1073/pnas.170207097. PMID: 10954737; PMCID: PMC27818.