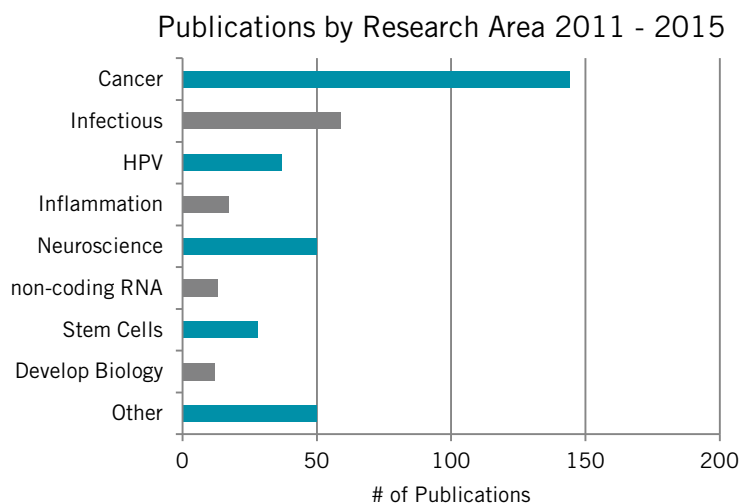
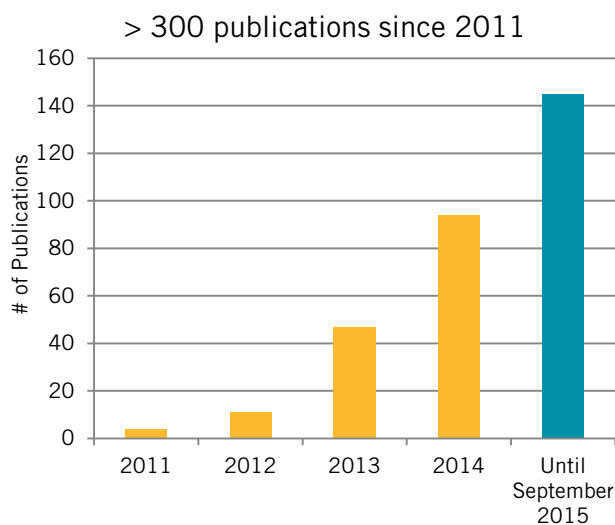


RNAscope® Scientific Peer-reviewed Publications

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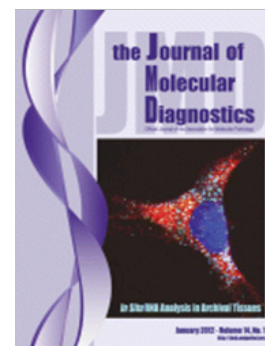
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RNAscope: A Novel *In Situ* RNA Analysis Platform for Formalin-Fixed Paraffin-Embedded Tissues.

Wang F, Flanagan J, Su N, Wang LC, Bui S, Nielson A, Wu X, Vo HT, Ma XJ, Luo Y (2012). *J of Mol Diagnostics*, 14(1):22–29.

[PMID: 22166544](#). doi:10.1016/j.jmoldx.2011.08.002.



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Automated Quantitative RNA *In Situ* Hybridization for Resolution of Equivocal and Heterogeneous *ERBB2* (*HER2*) Status in Invasive Breast Carcinoma.

Wang Z, Portier BP, Gruver AM, Bui S, Wang H, Su N, Vo HT, Ma XJ, Luo Y, Budd GT, Tubbs RR (2013). *J of Mol Diagnostics*, 15(2):210-219.

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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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<p>3. Characterizing transcriptional heterogeneity through pathway and gene set overdispersion analysis Fan J, Salathia N, Liu R, Kaeser G, Yung Y, Herman JL, Kaper F, Fan JB, Zhang K, Chun J, Kharchenko P. bioRxiv (2015): 026948. http://www.biorxiv.org/content/early/2015/09/16/026948</p>					●			●	
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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<p>9. The role of HOXC6 in prostate cancer development Hamid AR, Hoogland AM, Smit F, Jannink S, van Rijt-van de Westerlo C, Jansen CF, van Leenders GJ, Verhaegh GW, Schalken JA. Prostate. 2015 Aug 27. PMID: 26310814 doi: 10.1002/pros.23065.</p>	●								
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
<p>53. Classification of Epithelial Malignant Tumors-the Differentiation Between Adenocarcinomas and Neuroendocrine Carcinomas: Why Rely on Nonspecific Histochemistry and Dismiss Specific Methods Like Immunohistochemistry and <i>In Situ</i> Hybridization? Waldum HL, Sørdal ØF. Appl Immunohistochem Mol Morphol. 2015 Jun 5. PMID: 26067134</p>	●								
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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STEM CELL
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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<p>272. Cyclin D1—a prognostic marker in oropharyngeal squamous cell carcinoma that is tightly associated with high-risk human papillomavirus status. Scantlebury JB, Luo J, Thorstad WL, El-Mofty SK, Lewis JS Jr (2013). Human pathology, 44(8):1672–1680. PMID: 23566410 doi: 10.1016/j.humpath.2013.01.021.</p>	●								
<p>273. Validation of a novel diagnostic standard in HPV-positive oropharyngeal squamous cell carcinoma. Schache AG, Liloglou T, Risk JM, Jones TM, Ma XJ, Wang H, Bui S, Luo Y, Sloan P, Shaw RJ, Robinson M (2013). British journal of cancer, 108(6):1332–1339. PMID: 23412100 doi: 10.1038/bjc.2013.63.</p>	●	●	●						

2013 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
<p>274. High Heregulin Expression is Associated with Activated <i>HER3</i> and May Define an Actionable Biomarker in Patients with Squamous Cell Carcinomas of the Head and Neck.</p> <p>Shames DS, Carbon J, Walter K, Jubb AM, Kozlowski C, Januario T, AnDo, Fu L, Xiao Y, Raja R, Jiang B, Malekafzali A, Stern H, Settleman J, Wilson TR, Hampton GM, Yauch RL, Pirzkall A, Amler LC (2013). PLoS One, 8(2), e56765. PMID: 23468880 doi: 10.1371/journal.pone.0056765.</p>	●								
<p>275. Development, composition, and structural arrangements of the ciliary zonule of the mouse.</p> <p>Shi Y, Tu Y, De Maria A, Mecham RP, Bassnett S (2013). Investigative ophthalmology & visual science, 54(4), 2504–2515. PMID: 23493297 doi: 10.1167/iovs.13-11619.</p>									●
<p>276. A mouse model of chronic prostatic inflammation using a human prostate cancer-derived isolate of <i>Propionibacterium acnes</i>.</p> <p>Shinohara DB, Vaghasia AM, Yu SH, Mak TN, Brüggemann H, Nelson WG, De Marzo AM, Yegnasubramanian S, Sfanos KS (2013). Prostate, 73(9):1007–1015. PMID: 23389852 doi: 10.1002/pros.22648.</p>	●			●					
<p>277. The Gastrin Receptor Antagonist Netazepide (<i>YF476</i>) Prevents Oxyntic Mucosal Inflammation Induced by <i>Helicobacter Pylori</i> Infection in Mongolian Gerbils.</p> <p>Sørdal Ø, Waldum H, Nordrum IS, Boyce M, Bergh K, Munkvold B, Qvigstad G. (2013). Helicobacter, 18(6), 397–405. PMID: 23865485 doi: 10.1111/hel.12066.</p>				●					
<p>278. Myeloid cell receptor <i>LRP1/CD91</i> regulates monocyte recruitment and angiogenesis in tumors.</p> <p>Staudt ND, Jo M, Hu J, Bristow JM, Pizzo DP, Gaultier A, VandenBerg SR, Gonias SL. (2013). Cancer research, 73(13):3902–12. PMID: 23633492 doi: 10.1158/0008-5472.CAN-12-4233.</p>	●								
<p>279. Expression of Toll-Like Receptor 4 in Glomerular Endothelial Cells under Diabetic Conditions.</p> <p>Takata S, Sawa Y, Uchiyama T, Ishikawa H (2013). Acta histochemica et cytochemica, 46(1), 35–42. PMID: 23554538 doi: 10.1267/ahc.13002.</p>				●					

2013 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
<p>280. Ultrasensitive RNA <i>In Situ</i> Hybridization for Detection of Restricted Clonal Expression of Low-Abundance Immunoglobulin Light Chain mRNA in B-Cell Lymphoproliferative Disorders. Tubbs RR, Wang H, Wang Z, Minca EC, Portier BP, Gruver AM, Lanigan C, Luo Y, Cook JR, Ma XJ (2013). American journal of clinical pathology, 140(5):736–746. PMID: 24124155 doi: 10.1309/AJCPJTWK07FSABRJ.</p>	●								
<p>281. <i>REG</i> gene expression in inflamed and healthy colon mucosa explored by <i>in situ</i> hybridisation. Van Beelen Granlund A, Østvik AE, Brenna Ø, Torp SH, Gustafsson BI, Sandvik AK (2013). Cell and tissue research, 352(3):639–646. PMID: 23519454 doi: 10.1007/s00441-013-1592-z.</p>	●			●					
<p>282. Automated Quantitative RNA <i>in situ</i> Hybridization for Resolution of Equivocal and Heterogeneous <i>ERBB2</i> (<i>HER2</i>) Status in Invasive Breast Carcinoma. Wang Z, Portier BP, Gruver AM, Bui S, Wang H, Su N, Vo HT, Ma XJ, Luo Y, Budd GT, Tubbs RR (2013). The Journal of Molecular Diagnostics, 15(2), 210–219. PMID: 23305906 doi: 10.1016/j.jmoldx.2012.10.003.</p>	●								
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<p>285. Glutamate Mediates the Function of Melanocortin Receptor 4 on <i>Sim1</i> Neurons in Body Weight Regulation. Xu Y, Wu Z, Sun H, Zhu Y, Kim ER, Lowell BB, Arenkiel BR, Xu Y, Tong Q (2013). Cell metabolism, 18(6), 860–870. PMID: 24315371 doi: 10.1016/j.cmet.2013.11.003.</p>					●				
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
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<p>288. Detection of transcriptionally active high-risk HPV in patients with head and neck squamous cell carcinoma as visualized by a novel E6/E7 mRNA <i>in situ</i> hybridization method. Bishop JA, Ma XJ, Wang H, Luo Y, Illei PB, Begum S, Taube JM, Koch WM, Westra WH (2012). <i>Am J Surg Pathol</i>. Dec;36(12):1874–1882. PMID: 23060353 doi: 10.1097/PAS.0b013e318265fb2b.</p>	●	●	●						
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<p>290. Transcriptionally-active high-risk human papillomavirus is rare in oral cavity and laryngeal/hypopharyngeal squamous cell carcinomas—a tissue microarray study utilizing E6/E7 mRNA <i>in situ</i> hybridization. Lewis JS Jr, Ukpo OC, Ma XJ, Flanagan JJ, Luo Y, Thorstad WL, Chernock RD (2012) <i>Histopathology</i>. May; 60(6):982-91. PMID: 22360821 doi: 10.1111/j.1365-2559.2011.04169.x.</p>	●	●	●						
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
<p>294. From morphologic to molecular: established and emerging molecular diagnostics for breast carcinoma. Portier BP, Gruver AM, Huba MA, Minca EC, Cheah AL, Wang Z, Tubbs RR (2012). <i>New Biotechnology</i>, 29(6), 665–681. PMID: 22504737 doi: 10.1016/j.nbt.2012.03.011.</p>	●								
<p>295. B7-H1 Expression Model for Immune Evasion in Human Papillomavirus-Related Oropharyngeal Squamous Cell Carcinoma. Ukpo OC, Thorstad WL, Lewis JS Jr (2012). <i>Head and neck pathology</i>, 7(2):113–21. PMID: 23179191 doi: 10.1007/s12105-012-0406-z.</p>	●	●	●						
<p>296. RNAscope: a novel <i>in situ</i> RNA analysis platform for formalin-fixed, paraffin-embedded tissues. Wang F, Flanagan, J, Su N, Wang LC, Bui S, Nielson A, Wu X, Vo HT, Ma XJ, Luo Y. (2012). <i>The Journal of Molecular Diagnostics</i>, 14(1), 22–29. PMID: 22166544 doi: 10.1016/j.jmoldx.2011.08.002.</p>	●		●						
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Liu X, Bates R, Yin DM, Shen C, Wang F, Su N, Kirov SA, Luo Y, Wang JZ, Xiong WC, Mei L (2011). *J of Neuroscience*, 31(23):8491–8501.

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Masand RP, El-Mofty SK, Ma XJ, Luo Y, Flanagan JJ, Lewis JS Jr (2011). *Head & Neck Pathology*, 5(2):108–116.

[PMID: 21305368](#) | doi: 10.1007/s12105-011-0245-3.

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Tanas MR, Sboner A, Oliveira AM, Erickson-Johnson MR, Hespelt J, Hanwright PJ, Flanagan J, Luo Y, Fenwick K, Natrajan R, Mitsopoulos C, Zvelebil M, Hoch BL, Weiss SW, Debiec-Rychter M, Sciot R, West RB, Lazar AJ, Ashworth A, Reis-Filho JS, Lord CJ, Gerstein MB, Rubin MA, Rubin BP (2011).

Science translational medicine, 3(98), 98ra82-98ra82.

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301. High-Risk Human Papillomavirus *E6/E7* mRNA Detection by a Novel *In Situ* Hybridization Assay Strongly Correlates With p16 Expression and Patient Outcomes in Oropharyngeal Squamous Cell Carcinoma.

Ukpo OC, Flanagan JJ, Ma XJ, Ma XJ, Luo Y, Thorstad WL, Lewis JS Jr (2011). *American J of Surgical Pathology*, 35(9):1343–1350.

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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	DEVELOPMENTAL	OTHER
298. Specific Regulation of <i>NRG1</i> Isoform Expression by Neuronal Activity. Liu X, Bates R, Yin DM, Shen C, Wang F, Su N, Kirov SA, Luo Y, Wang JZ, Xiong WC, Mei L (2011). <i>J of Neuroscience</i> , 31(23):8491–8501. PMID: 21653853 doi: 10.1523/JNEUROSCI.5317-10.2011.					●				
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300. Identification of a disease-defining gene fusion in epithelioid hemangioendothelioma. Tanas MR, Sboner A, Oliveira AM, Erickson-Johnson MR, Hespelt J, Hanwright PJ, Flanagan J, Luo Y, Fenwick K, Natrajan R, Mitsopoulos C, Zvelebil M, Hoch BL, Weiss SW, Debiec-Rychter M, Sciot R, West RB, Lazar AJ, Ashworth A, Reis-Filho JS, Lord CJ, Gerstein MB, Rubin MA, Rubin BP (2011). <i>Science translational medicine</i> , 3(98), 98ra82-98ra82. PMID: 21885404 doi: 10.1126/scitranslmed.3002409.									●
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