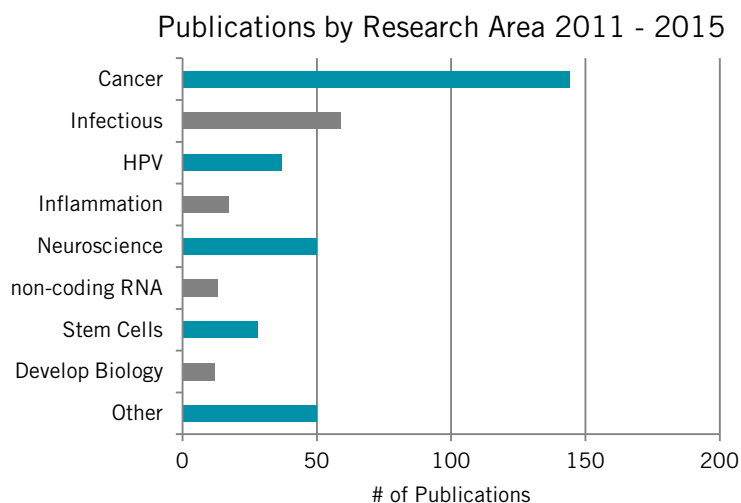
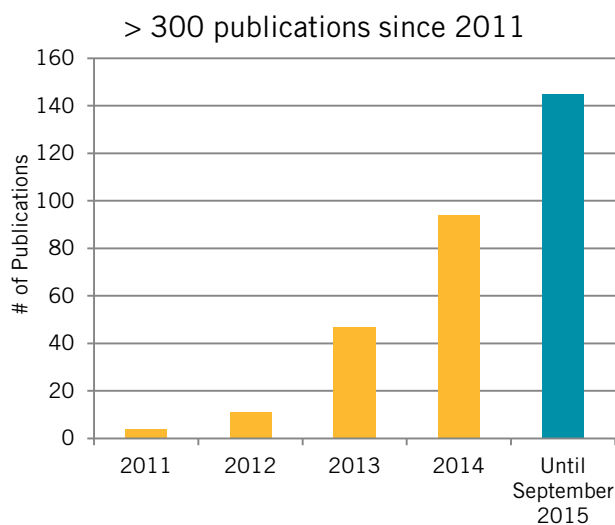


RNAscope® Scientific Peer-reviewed Publications

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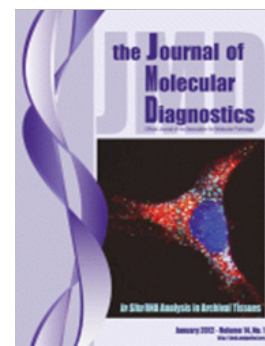
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RNAscope: A Novel *In Situ* RNA Analysis Platform for Formalin-Fixed Paraffin-Embedded Tissues.

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.



RNAscope VS and SpotStudio™ Software for Quantitative & Automated *In Situ* Analysis.

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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
<p>46. Fibroblast Growth Factor Receptor 1 Gene Copy Number and mRNA Expression in Primary Colorectal Cancer and Its Clinicopathologic Correlation Kwak Y, Nam SK, Seo AN, Kim DW, Kang SB, Kim WH, Lee HS. Pathobiology. 2015 Jun 16;82(2):76-83. PMID: 26088290</p>	●								
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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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2015 PUBLICATIONS

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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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2014 PUBLICATIONS

	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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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
219. Mucoepidermoid Carcinoma Does Not Harbor Transcriptionally Active High Risk Human Papillomavirus Even in the Absence of the MAML2 Translocation	●	●	●						
220. Detection of viral pathogens in high grade gliomas from unmapped next-generation sequencing data.			●						
221. DUOX2 and DUOXA2 form the predominant enzyme system capable of producing the reactive oxygen species H2O2 in active ulcerative colitis and are modulated by 5-aminosalicylic acid.				●					
222. Temporal and tissue-specific disruption of LINC complexes in vivo.									●
223. Modulation of hypoxia-signaling pathways by extracellular linc-RoR.						●			
224. Tracking the Luminal Exposure and Lymphatic Drainage Pathways of Intravaginal and Intra-rectal Inocula Used in Nonhuman Primate Models of HIV Transmission.			●						
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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
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<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>	●	●	●						

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	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>	●			●					
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	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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	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>	●								
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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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