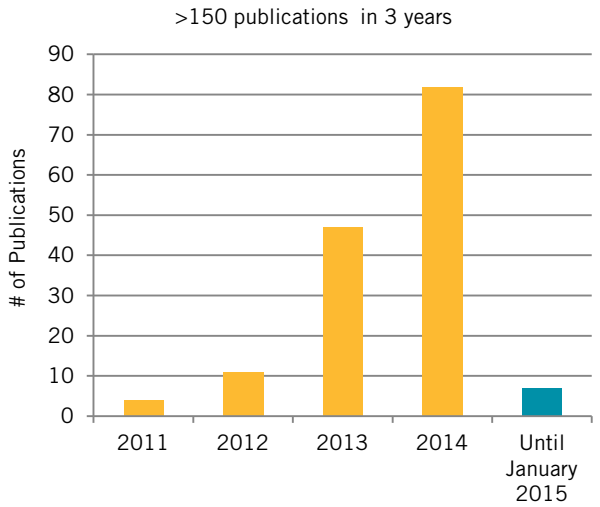
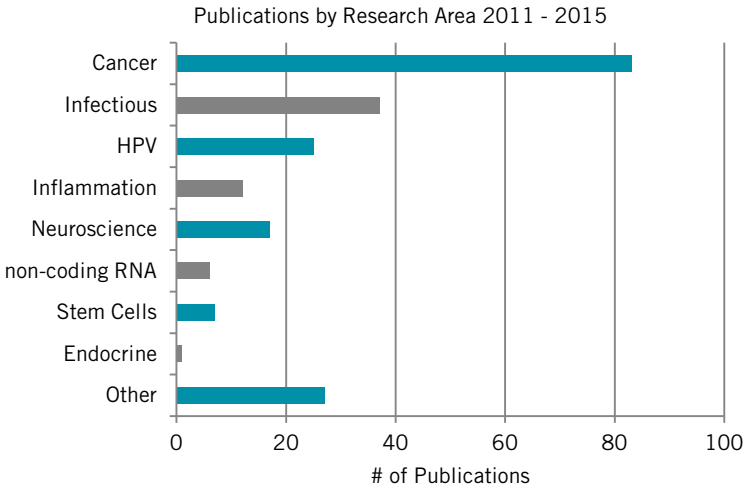
Advanced Cell Diagnostics

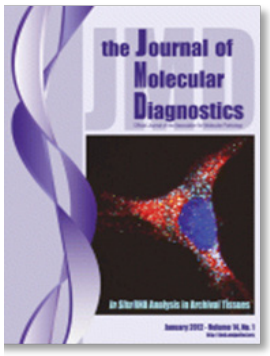
RNAscope® Scientific Peer-reviewed Publications

Updated January 2015





RNAscope–A New Technology for *In Situ* Hybridization.



RNAscope is a new technology for single-molecule multiplex *in situ* RNA detection. This publication details the core principles behind RNAscope Technology.

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.

With RNAscope VS Automated *in situ* hybridization and SpotStudio quantitative analysis, you can correlate your *in situ* mRNA staining results with RT-PCR data.

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.
PMID: 23305906. doi:10.1016/j.jmoldx.2012.10.003.

Advanced Cell Diagnostics

2015 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
1. **Neurog1 Genetic Inducible Fate Mapping (GIFM) Reveals the Existence of Complex Spatiotemporal Cyto-Architectures in the Developing Cerebellum.** Obana EA, Lundell TG, Yi KJ, Radomski KL, Zhou Q, Doughty ML. Cerebellum. 2015 Jan 16. PMID: 25592069					●				
2. **Gremlin 1 identifies a skeletal stem cell with bone, cartilage, and reticular stromal potential.** Worthley DL, Churchill M, Compton JT, Tailor Y, Rao M, Si Y, Levin D, Schwartz MG, Uygur A, Hayakawa Y, Gross S, Renz BW, Setlik W, Martinez AN, Chen X, Nizami S, Lee HG, Kang HP, Caldwell JM, Asfaha S, Westphalen CB, Graham T, Jin G, Nagar K, Wang H, Kheirbek MA, Kolhe A, Carpenter J, Glaire M, Nair A, Renders S, Manieri N, Muthupalani S, Fox JG, Reichert M, Giraud AS, Schwabe RF, Pradere JP, Walton K, Prakash A, Gumucio D, Rustgi AK, Stappenbeck TS, Friedman RA, Gershon MD, Sims P, Grikscheit T, Lee FY, Karsenty G, Mukherjee S, Wang TC. Cell. 2015 Jan 15;160(1-2):269-84. PMID: 25594183 | doi: 10.1016/j.cell.2014.11.042.							●		
3. **Identification of transcriptionally active HPV infection in formalin-fixed, paraffin-embedded biopsies of oropharyngeal carcinoma** Morbini P, Alberizzi P, Tinelli C, Paglino C, Bertino G, Comoli P, Pedrazzoli P, Benazzo M. Human Pathology (2015). doi:10.1016/j.humpath.2014.12.014	●	●	●						
4. **Primary Afferent and Spinal Cord Expression of GastrinReleasing Peptide: Message, Protein, and Antibody Concerns** Solorzano C, Villafuerte D, Meda K, Cevikbas F, Bráz J, Sharif-Naeini R, Juarez-Salinas D, Llewellyn-Smith IJ, Guan Z, Basbaum AI. J Neurosci. 2015 Jan 14;35(2):648-57. PMID: 25589759 | doi: 10.1523/JNEUROSCI.2955-14.2015.					●				
5. **Vaccinium myrtillus extract prevents or delays the onset of diabetes--induced blood-retinal barrier breakdown.** Kim J, Kim CS, Lee YM, Sohn E, Jo K, Kim JS. Int J Food Sci Nutr. 2015 Jan 13:1-7. PMID: 25582181									●
6. **Identification of a Human Papillomavirus-Associated Oncogenic miRNA Panel in Human Oropharyngeal Squamous Cell Carcinoma Validated by Bioinformatics Analysis of The Cancer Genome Atlas.** Miller DL, Davis JW, Taylor KH, Johnson J, Shi Z, Williams R, Atasoy U, Lewis JS Jr, Stack MS. Am J Pathol. 2015 Jan 5. pii: S0002-9440(14)00688-9. PMID: 25572154 | doi: 10.1016/j.ajpath.2014.11.018.	●	●	●						

2015 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
7. Pathogenesis of varicelloviruses in primates Ouwendijk WJ, Verjans GM. J Pathol. 2015 Jan;235(2):298-311. PMID: 25255989 | doi: 10.1002/path.4451.			●						

2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
8. Poly-ADP ribosylation of PTEN by tankyrases promotes PTEN degradation and tumor growth Li N, Zhang Y, Han X, Liang K, Wang J, Feng L, Wang W, Songyang Z, Lin C, Yang L, Yu Y, Chen J. Genes Dev. 2014 Dec 29. PMID: 25547115	●								
9. Incidence trends in head and neck squamous cell carcinoma in Slovenia, 1983-2009: role of human papillomavirus infection. Strojan P, Zadnik V, Šifrer R, Lanišnik B, Didanović V, Jereb S, Poljak M, Kocjan BJ, Gale N. Eur Arch Otorhinolaryngol. 2014 Dec 27. PMID: 25542247	●	●	●						
10. Gastric Mesenchymal Myofibroblasts Maintain Stem Cell Activity and Proliferation of Murine Gastric Epithelium in Vitro. Katano T, Ootani A, Mizoshita T, Tanida S, Tsukamoto H, Ozeki K, Kataoka H, Joh T. Am J Pathol. 2014 Dec 26. PMID: 25546442 I doi: 10.1016/j.ajpath.2014.11.007.							●		
11. Quantitative measurement of cancer tissue biomarkers in the lab and in the clinic. Carvajal-Hausdorf DE, Schalper KA, Neumeister VM, Rimm DL Lab Invest. 2014 Dec 15. PMID: 25502176 I doi: 10.1038/labinvest.2014.157.	●								
12. A Novel RNA In Situ Hybridization Assay for the Long Noncoding RNA SChLAP1 Predicts Poor Clinical Outcome After Radical Prostatectomy in Clinically Localized Prostate Cancer Mehra R, Shi Y, Udager AM, Prensner JR, Sahu A, Iyer MK, Siddiqui J, Cao X, Wei J, Jiang H, Feng FY, Chinnaiyan AM. Neoplasia 2014 Dec; 16 (12): 1121-1127. DOI: http://dx.doi.org/10.1016/j.neo.2014.11.006	●								
13. Do high-risk human papillomaviruses cause oral cavity squamous cell carcinoma? Mirghanie H, Amen F, Moreau F, Lacau St Guily J. Oral Oncology 2014 DOI: http://dx.doi.org/10.1016/j.oraloncology.2014.11.011	●	●	●						
14. Piezo2 is the major transducer of mechanical forces for touch sensation in mice Ranade SS, Woo SH, Dubin AE, Moshourab RA, Wetzel C, Petrus M, Mathur J, Bégay V, Coste B, Mainquist J, Wilson AJ, Francisco AG, Reddy K, Qiu Z, Wood JN, Lewin GR, Patapoutian A. Nature. 2014 Dec 4;516(7529):121-5. PMID: 25471886 I doi: 10.1038/nature13980.					●				

2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
15. Aberrant epithelial GREM1 expression initiates colonic tumorigenesis from cells outside the stem cell niche. Davis H, Irshad S, Bansal M, Rafferty H, Boitsova T, Bardella C, Jaeger E, Lewis A, Freeman-Mills L, Giner FC, Rodenas-Cuadrado P, Mallappa S, Clark S, Thomas H, Jeffery R, Poulsom R, Rodriguez-Justo M, Novelli M, Chetty R, Silver A, Sansom OJ, Greten FR, Wang LM, East JE, Tomlinson I, Leedham SJ. Nat Med. 2014 Dec 1. PMID: 25419707 I doi: 10.1038/nm.3750.	●								
16. Expression of the Chemokine Receptor Gene, CCR8, is Associated With DUSP22 Rearrangements in Anaplastic Large Cell Lymphoma. Xing X, Flotte TJ, Law ME, Blahnik AJ, Chng WJ, Huang G, Knudson RA, Ketterling RP, Porcher JC, Ansell SM, Sidhu J, Dogan A, Feldman AL. Appl Immunohistochem Mol Morphol. 2014 Nov 11. PMID: 25390351 I doi: 10.1097/PAI.0000000000000118	●								
17. lncRNA Directs Cooperative Epigenetic Regulation Downstream of Chemokine Signals Xing Z, Lin A, Li C, Liang K, Wang S, Liu Y, Park PK, Qin L, Wei Y, Hawke DH, Hung MC, Lin C, Yang L. Cell 2014. doi:10.1016/j.cell.2014.10.013	●					●			
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19. Detection of immunoglobulin light chain restriction in cutaneous B-cell lymphomas by ultrasensitive bright-field mRNA in-situ hybridization Minca EC, Wang H, Wang Z, Lanigan C, Billings SD, Luo Y, Tubbs RR, Ma XJ. J Cutan Pathol. 2014 Nov 3. PMID: 25363373 I doi: 10.1111/cup.12415.	●								
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
21. Cannabinoid CB2 receptors modulate midbrain dopamine neuronal activity and dopamine-related behavior in mice dopamine neuronal activity and dopamine-related behavior in mice Zhang HY, Gao M, Liu QR, Bi GH, Li X, Yang HJ, Gardner EL, Wu J, Xi ZX. Proc Natl Acad Sci U S A. 2014 Nov 3. PMID: 25368177 l pii: 201413210					●				
22. Expression and cellular localization of the Mas receptor in the adult and developing mouse retina Prasad T, Verma A, Li Q. Molecular Vision 2014; 20:1443-1455 http://www.molvis.org/molvis/v20/1443									●
23. Effect of Suberoylanilide Hydroxamic Acid (SAHA) Administration on the Residual Virus Pool in a Model of Combination Antiretroviral Therapy-Mediated Suppression in SIVmac239-Infected Indian Rhesus Macaques. Del Prete GQ, Shoemaker R, Oswald K, Lara A, Trubey CM, Fast R, Schneider DK, Kiser R, Coalter V, Wiles A, Wiles R, Freemire B, Keele BF, Estes JD, Quiñones OA, Smedley J, Macallister R, Sanchez RI, Wai JS, Tan CM, Alvord WG, Hazuda DJ, Piatak M Jr, Lifson JD. Antimicrob Agents Chemother. 2014 Nov;58(11):6790-806. PMID: 25182644 ldoi: 10.1128/AAC.03746-14.			●						
24. Identification of a Novel FN1-FGFR1 Genetic Fusion as a Frequent Event in Phosphaturic Mesenchymal Tumour Lee JC, Jeng YM, Su SY, Wu CT, Tsai KS, Lee CH, Lin CY, Carter JM, Huang JW, Chen SH, Shih SR, Mariño-Enríquez A, Chen CC, Folpe AL, Chang YL, Liang CW. J Pathol. 2014 Oct 16. PMID: 25319834 l doi: 10.1002/path.4465	●								
25. Recombinant adeno-associated virus 2/5-mediated gene transfer is reduced in the aged rat midbrain Polinski NK, Gombash SE, Manfredsson FP, Lipton JW, Kemp CJ, Cole-Strauss A, Kanaan NM, Steece-Collier K, Kuhn NC, Wohlgenant SL, Sortwell CE. Neurobiology of Aging DOI: http://dx.doi.org/10.1016/j.neurobiolaging.2014.07.047					●				
26. VEGF mRNA Assessment in Human Pterygium: A New 'Scope' for a Future Hope. Poenaru Sava MG, Raica ML, Cimpean AM. Ophthalmic Res. 2014 Oct 3;52(3):130-135. PMID: 25300614									●

2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
27. Anti-nicastrin monoclonal antibodies elicit pleiotropic anti-tumour pharmacological effects in invasive breast cancer cells. Filipović A, Lombardo Y, Fronato M, Abrahams J, Aboagye E, Nguyen QD, d'Aqua BB, Ridley A, Green A, Rahka E, Ellis I, Recchi C, Przulj N, Sarajlić A, Alattia JR, Fraering P, Deonarain M, Coombes RC. Breast Cancer Res Treat. 2014 Sep 24. PMID: 25248409	●								
28. Label-Retaining Cells in the Adult Murine Salivary Glands Possess Characteristics of Adult Progenitor Cells Chibly AM, Querin L, Harris Z, Limesand KH. PLoS One. 2014 Sep 19;9(9):e107893. PMID: 25238060 | doi: 10.1371/journal.pone.0107893. eCollection 2014.	●								
29. Simultaneous visualization and cell-specific confirmation of RNA and protein in the mouse retina Stempel AJ, Morgans CW, Stout JT, Appukuttan B. Molecular Vision 2014; 20:1366-137 PMID: 25352743 | www.molvis.org/molvis/v20/1366									●
30. AR-V7 and Resistance to Enzalutamide and Abiraterone in Prostate Cancer Antonarakis ES, Lu C, Wang H, Luber B, Nakazawa M, Roeser JC, Chen Y, Mohammad TA, Chen Y, Fedor HL, Lotan TL, Zheng Q, De Marzo AM, Isaacs JT, Isaacs WB, Nadal R, Paller CJ, Denmeade SR, Carducci MA, Eisenberger MA, Luo J. N Engl J Med. 2014 Sep 11;371(11):1028-38. PMID: 25184630 | doi: 10.1056/NEJMoa1315815.	●								
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32. Novel RNA Hybridization Method for the In Situ Detection of ETV1, ETV4, and ETV5 Gene Fusions in Prostate Cancer. Kunju LP, Carskadon S, Siddiqui J, Tomlins SA, Chinnaiyan AM, Palanisamy N. Appl Immunohistochem Mol Morphol. 2014 Sep;22(8):e32-40. PMID: 25203299 | doi: 10.1097/PAI.0000000000000095.	●								
33. Hyperplasia and fibrosis in mice with conditional loss of the TSC2 tumour suppressor in Müllerian duct mesenchyme-derived myometria Kaneko-Tarui T, Commandeur AE, Patterson AL, DeKuiper JL, Petillo D, Styer AK, Teixeira JM. Mol Hum Reprod. 2014 Sep 4 PMID: 25189766 | pii: gau077.	●								

2014 PUBLICATIONS

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34. Axonally Synthesized ATF4 Transmits a Neurodegenerative Signal across Brain Regions Baleriola J, Walker CA, Jean YY, Crary JF, Troy CM, Nagy PL, Hengst U. Cell. 2014 Aug 28;158(5):1159-72. PMID: 25171414 I doi: 10.1016/j.cell.2014.07.001					●				
35. Characterization of Inflammatory (Lymphoepithelioma-like) Hepatocellular Carcinoma: A Study of 8 Cases. Patel KR, Liu TC, Vaccharajani N, Chapman WC, Brunt EM. Arch Pathol Lab Med. 2014 Sep;138(9):1193-202. PMID: 25171701 I doi: 10.5858/arpa.2013-0371-OA.	●	●	●						
36. The Raccoon Polyomavirus Genome and Tumor Antigen Transcription are Stable and Abundant in Neuroglial Tumors. Brostoff T, Dela Cruz FN Jr, Church ME, Woolard KD, Pesavento PA. J Virol. 2014 Aug 27 PMID: 25165109 I pii: JVI.01912-14.	●		●		●				
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38. Simultaneous flow cytometric analysis of IFN-γ and CD4 mRNA and protein expression kinetics in human peripheral blood mononuclear cells during activation. Van Hoof D, Lomas W, Hanley MB, Park E. Cytometry A. 2014 Aug 13. PMID: 25123411 I doi: 10.1002/cyto.a.22521.									●
39. Effect of local application of an antibody against brain-derived neurotrophic factor on neuroma formation after transection of the inferior alveolar nerve in the rat. Valverde Guevara YM, Yoshikawa H, Saito I, Maeda T, Seo K. Neuroreport. PMID: 25055143					●				
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
41. A Novel Chromogenic In Situ Hybridization Assay for FGF23 mRNA in Phosphaturic Mesenchymal Tumors. Carter JM, Caron BL, Dogan A, Folpe AL. Am J Surg Pathol. 2014 Jul 14. PMID: 25025444 I doi: 10.1097/PAS.0000000000000290	●								
42. Oncofetal Long Noncoding RNA PVT1 promotes proliferation and stem cell-like property of hepatocellular carcinoma cells by stabilizing NOP2 Wang F, Yuan JH, Wang SB, Yang F, Yuan SX, Ye C, Yang N, Zhou WP, Li W, Sun SH Hepatology (2014) DOI: 10.1002/hep.27239	●								
43. X-inactivation normalizes O-GlcNAc Transferase levels and generates an O-GlcNAc-depleted Barr body Olivier-van_stichelen, S, J. A. Hanover Frontiers in Genetics 5 (2014): 256 doi: 10.3389/fgene.2014.00256									●
44. Early colonizing Escherichia coli elicits remodeling of rat colonic epithelium shifting toward a new homeostatic state. Tomas J, Reygner J, Mayeur C, Ducroc R, Bouet S, Bridonneau C, Cavin JB, Thomas M, Langella P, Cherbuy C. ISME J. 2014 Jul 11. PMID: 25012905 I doi: 10.1038/ismej.2014.111									●
45. Prognostic significance of p62/SQSTM1 subcellular localization and LC3B in oral squamous cell carcinoma Liu JL, Chen FF, Lung J, Lo CH, Lee FH, Lu YC, Hung CH. Br J Cancer. 2014 Jul 1. PMID: 24983366 I doi: 10.1038/bjc.2014.355.	●								
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
48. PROX1 Expression in Gastric Cancer: From Hypothesis to Evidence. Taban O, Cimpean AM, Raica M, Olariu S. Anticancer Res. 2014 Jul;34(7):3439-46. PMID: 24982352	●								
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51. Functional ex vivo assay to select Homologous Recombination deficient breast tumors for PARP inhibitor treatment Naipal KA, Verkaik NS, Ameziane N, van Deurzen CH, Ter Brugge P, Meijers M, Sieuwerts AM, Martens J, O'Connor MJ, Vrieling H, Hoeijmakers JH, Jonkers J, Kanaar R, de Winter J, Vreeswijk M, Jager A, van Gent DC. Clin Cancer Res. 2014 Jun 24 PMID: 24963051	●								
52. Expression of Hedgehog ligand and signal transduction components in mutually distinct isocitrate dehydrogenase mutant glioma cells supports a role for paracrine signaling Abiria SA, Williams TV, Munden AL, Grover VK, Wallace A, Lundberg CJ, Valadez JG, Cooper MK., J Neurooncol. 2014 May 28. PMID: 24867209	●				●				
53. Collagen-Binding α11 Integrin Expression in Human Myometrium and Fibroids Utilizing a Novel RNA In Situ Probe. Peavey M, Salleh N, Leppert P., Reprod Sci. 2014 Feb 11. PMID: 24520080									●
54. GATA4 is essential for bone mineralization via ERα and TGFβ/BMP pathways Güemes M, Garcia AJ, Rigueur D, Runke S, Wang W, Zhao G, Mayorga VH, Atti E, Tetradis S, Péault B, Lyons K, Miranda-Carboni GA, Krum SA. J Bone Miner Res. 2014 Jun 16. PMID: 24932701 | doi: 10.1002/jbmr.2296.									●

2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
55. Detection of human papillomavirus (HPV) in clinical samples: Evolving methods and strategies for the accurate determination of HPV status of head and neck carcinomas Westra WH. Oral Oncology, 2014 – Elsevier doi: 10.1016/j.oraloncology.2014.05.004	●	●	●						
56. SIRT6 Is Required for Normal Retinal Function. Silberman DM, Ross K, Sande PH, Kubota S, Ramaswamy S, Apte RS, Mostoslavsky R. PLoS One. 2014 Jun 4;9(6):e98831. PMID: 24896097 I doi: 10.1371/journal.pone.0098831									●
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58. HPV-related oropharyngeal squamous cell carcinomas: a comparison between three diagnostic approaches. Melkane AE, Mirghani H, Aupérin A, Saulnier P, Lacroix L, Vielh P, Casiraghi O, Griscelli F, Temam S. Am J Otolaryngol. 2014 Jan-Feb;35(1):25-32. PMID: 24112760 I doi: 10.1016/j.amjoto.2013.08.007.	●	●	●						
59. Leukocyte cell-derived chemotaxin 2 (LECT2)-associated amyloidosis is a frequent cause of hepatic amyloidosis in the United States. Mereuta OM, Theis JD, Vrana JA, Law ME, Grogg KL, Dasari S, Chandan VS, Wu TT, Jimenez-Zepeda VH, Fonseca R, Dispenzieri A, Kurtin PJ, Dogan A. Blood. 2014 Mar 6;123(10):1479-82 PMID: 24415538 I doi: 10.1182/blood-2013-07-517938									●
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2014 PUBLICATIONS

	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
62. Reconstructing lineage hierarchies of the distal lung epithelium using single-cell RNA-seq. Treutlein B, Brownfield DG, Wu AR, Neff NF, Mantalas GL, Espinoza FH, Desai TJ, Krasnow MA, Quake SR. Nature. 2014 May 15;509(7500):371-5. PMID: 24739965 I doi: 10.1038/nature13173.									●
63. FGFR1 mRNA and Protein Expression, not Gene Copy Number, Predict FGFR TKI Sensitivity Across All Lung Cancer Histologies Wynes MW, Hinz TK, Gao D, Martini M, Marek L, Ware KE, Edwards MG, Bohm D, Perner S, Helfrich BA, Dziadziuszko R, Jassem J, Wojtylak S, Sejda A, Gozgit JM, Bunn Jr PA, Camidge DR, Tan AC, Hirsch FR, Heasley LE (2014) Clin Cancer Res. 2014 Apr 25. PMID: 24771645	●								
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
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	CANCER	HPV	INFECTIOUS	INFLAMMATION	NEUROSCIENCE	NON-CODING RNA	STEM CELL	ENDOCRINE	OTHER
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