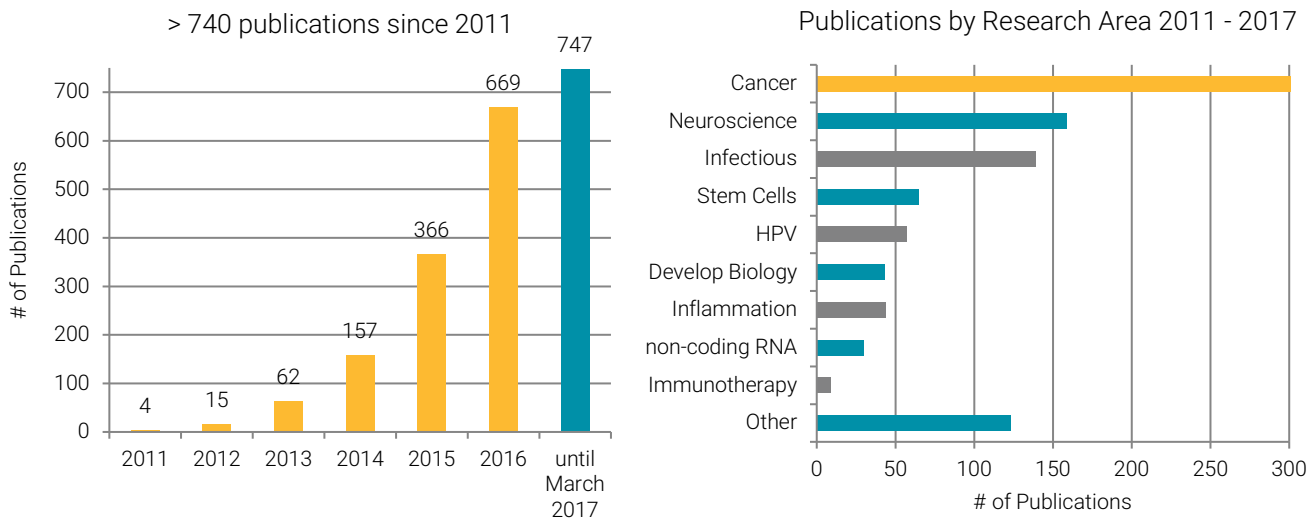


# RNAscope<sup>®</sup> Scientific Peer-reviewed Publications

## Subset of Publications: Dual IS-IHC

Updated March 2017

Complete list of publications available at [acdbio.com/publications](http://acdbio.com/publications)



## 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](https://pubmed.ncbi.nlm.nih.gov/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](https://pubmed.ncbi.nlm.nih.gov/23305906/). doi:10.1016/j.jmoldx.2012.10.003.



## 2017 PUBLICATIONS

1. **Selective expression of TSPAN2 in vascular smooth muscle is independently regulated by TGF-beta1/SMAD and myocardin/serum response factor.**  
Zhao J, Wu W, Zhang W, Lu YW, Tou E, Ye J, et al.  
FASEB journal : official publication of the Federation of American Societies for Experimental Biology 2017. [PMID: 28258189](#) DOI: 10.1096/fj.201601021R

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2. **Automated Double In Situ Detection of Mouse Lgr5 mRNA and Lysozyme Protein in Examining the Neighboring Cell Types of the Mouse Intestinal Crypt.**  
Turkecul M, Barlas A, Yarilin D, Fujisawa S, Fan N, Brendel M, et al.  
Methods in molecular biology (Clifton, NJ) 2017; 1554:263-272.  
[PMID: 28185199](#) DOI: 10.1007/978-1-4939-6759-9\_19

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3. **SHISA6 Confers Resistance to Differentiation-Promoting Wnt/ $\beta$ -Catenin Signaling in Mouse Spermatogenic Stem Cells.**  
Tokue M, Ikami K, Mizuno S, Takagi C, Miyagi A, Takada R, et al.  
Stem cell reports 2017. [PMID: 28196692](#) DOI: 10.1016/j.stemcr.2017.01.006

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4. **CD24 expression does not affect dopamine neuronal survival in a mouse model of Parkinson's disease.**  
Stott SR, Hayat S, Carnwath T, Garas S, Sleeman JP, Barker RA.  
PloS one 2017; 12(2):e0171748.  
[PMID: 28182766](#) PMCID: PMC5300212 DOI:10.1371/journal.pone.0171748

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5. **CLUH regulates mitochondrial metabolism by controlling translation and decay of target mRNAs.**  
Schatton D, Pla-Martin D, Marx MC, Hansen H, Mourier A, Nemazanyy I, et al.  
The Journal of cell biology 2017.  
[PMID: 28188211](#) PMCID: PMC5350512 DOI: 10.1083/jcb.201607019

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6. **RNA immunoprecipitation identifies novel targets of DAZL in human foetal ovary.**  
Rosario R, Smith RW, Adams IR, Anderson RA.  
MHR: Basic science of reproductive medicine 2017:1-10.

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7. **Cabozantinib Eradicates Advanced Murine Prostate Cancer by Activating Anti-Tumor Innate Immunity.**  
Patnaik A, Swanson KD, Csizmadia E, Solanki A, Landon-Brace N, Gehring MP, et al.  
Cancer discovery 2017.  
[PMID: 28274958](#) DOI: 10.1158/2159-8290.CD-16-0778

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8. **Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown.**  
Ogura S, Kurata K, Hattori Y, Takase H, Ishiguro-Oonuma T, Hwang Y, et al.  
JCI insight 2017; 2(3):e90905.  
[PMID: 28194443](#) DOI: 10.1172/jci.insight.90905

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9. **Replication of CMV in the gut of HIV-infected individuals and epithelial barrier dysfunction.**  
Maidji E, Somsouk M, Rivera JM, Hunt PW, Stoddart CA.  
PLoS pathogens 2017; 13(2):e1006202.  
[PMID: 28241080](#) DOI: 10.1371/journal.ppat.1006202

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10. **Coupling of Bone Resorption and Formation in Real Time: New Knowledge Gained from Human Haversian BMUs.**  
Lassen NE, Andersen TL, Ploen GG, Soe K, Hauge EM, Harving S, et al.  
Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research 2017.  
[PMID: 28177141](#) DOI: 10.1002/jbmr.3091

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11. **Accumulation of worn-out GBM material substantially contributes to mesangial matrix expansion in diabetic nephropathy.**  
Kriz W, Lowen J, Federico G, van den Born J, Grone E, Grone HJ.  
2017; (1522-1466 (Electronic)).  
[PMID:28228399](#) DOI: 10.1152/ajprenal.00020.2017

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12. **FZD10-Galpha13 signalling axis points to a role of FZD10 in CNS angiogenesis.**  
Hot B, Valnohova J, Arthofer E, Simon K, Shin J, Uhlen M, et al.  
Cellular signalling 2017.  
[PMID: 28126591](#) DOI: 10.1016/j.cellsig.2017.01.023

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13. **Motor neurons control blood vessel patterning in the developing spinal cord.**  
Himmels P, Paredes I, Adler H, Karakatsani A, Luck R, Marti HH, et al  
Nature communications 2017; 8:14583.  
[PMID: 28262664](#) DOI: 10.1038/ncomms14583

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14. **Reactivation of simian immunodeficiency virus reservoirs in the brain of virally suppressed macaques.**  
Gama L, Abreu CM, Shirk EN, Price SL, Li M, Laird GM, et al.  
AIDS (London, England) 2017; 31(1):5-14.  
[PMID: 27898590](#) DOI: 10.1097/QAD.0000000000001267

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15. **Chromatin-remodelling factor Brg1 regulates myocardial proliferation and regeneration in zebrafish.**  
Xiao C, Gao L, Hou Y, Xu C, Chang N, Wang F, et al.  
Nature communications 2016; 7:13787.  
[PMID: 27929112](#) DOI: 10.1038/ncomms13787

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Silver JS, Kearley J, Copenhaver AM, Sanden C, Mori M, Yu L, et al.  
Nature immunology 2016; 17(6):626-635.  
[PMID: 27111143](#) DOI: [10.1038/ni.3443](#)
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Rodrigues DC, Kim DS, Yang G, Zaslavsky K, Ha KC, Mok RS, et al.  
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[PMID: 27732849](#) DOI: [10.1016/j.celrep.2016.09.049](#)
18. **Impact of age and vector construct on striatal and nigral transgene expression.**  
Polinski NK, Manfredsson FP, Benskey MJ, Fischer DL, Kemp CJ, Steece-Collier K, et al.  
Molecular therapy Methods & clinical development 2016; 3:16082.  
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19. **Distribution of Lgr5-positive cancer cells in intramucosal gastric signet-ring cell carcinoma.**  
Nakajima T, Uehara T, Maruyama Y, Iwaya M, Kobayashi Y, Ota H.  
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[PMID: 27593551](#) DOI: [10.1111/pin.12451](#)
20. **Lymphatic Dissemination of Simian Immunodeficiency Virus after Penile Inoculation.**  
Ma ZM, Dutra J, Fritts L, Miller CJ.  
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[PMID: 26865706](#) DOI: [10.1128/JVI.02947-15](#)
21. **The peptidergic control circuit for sighing.**  
Li P, Janczewski WA, Yackle K, Kam K, Pagliardini S, Krasnow MA, et al.  
Nature 2016; 530(7590):293-297.  
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22. **Single-Cell Lineage Tracing Reveals that Oriented Cell Division Contributes to Trabecular Morphogenesis and Regional Specification.**  
Li J, Miao L, Shieh D, Spiotto E, Li J, Zhou B, et al.  
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23. **Satellite RNAs promote pancreatic oncogenic processes via the dysfunction of YBX1.**  
Kishikawa T, Otsuka M, Yoshikawa T, Ohno M, Ijichi H, Koike K.  
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[PMID: 27667193](#) DOI: [10.1038/ncomms13006](#)
24. **Single-Cell Transcriptomics Reveals that Differentiation and Spatial Signatures Shape Epidermal and Hair Follicle Heterogeneity.**  
Joost S, Zeisel A, Jacob T, Sun X, La Manno G, Lonnerberg P, et al.  
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Johnston AP, Yuzwa SA, Carr MJ, Mahmud N, Storer MA, Krause MP, et al.  
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Greer PL, Bear DM, Lassance JM, Bloom ML, Tsukahara T, Pashkovski SL, et al.  
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28. **Comprehensive alpha, beta and delta cell transcriptomes reveal that ghrelin selectively activates delta cells and promotes somatostatin release from pancreatic islets.**  
DiGruccio MR, Mawla AM, Donaldson CJ, Noguchi GM, Vaughan J, Cowing-Zitron C, et al.  
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29. **Basophil Recruitment into Tumor-Draining Lymph Nodes Correlates with Th2 Inflammation and Reduced Survival in Pancreatic Cancer Patients.**  
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30. **Interleukin-1beta induced Stress Granules Sequester COX-2 mRNA and Regulates its Stability and Translation in Human OA Chondrocytes.**  
Ansari MY, Haqqi TM.  
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[PMID: 27271770](#) DOI: 10.1038/srep27611

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31. **Semaphorin-3C signals through Neuropilin-1 and PlexinD1 receptors to inhibit pathological angiogenesis.**  
Yang WJ, Hu J, Uemura A, Tetzlaff F, Augustin HG, Fischer A.  
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[PMID: 26194913](#) DOI: 10.15252/emmm.201404922

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32. **A method for combining RNAscope in situ hybridization with immunohistochemistry in thick free-floating brain sections and primary neuronal cultures.**  
Grabinski TM, Kneynsberg A, Manfredsson FP, Kanaan NM.  
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33. **A Smaug2-Based Translational Repression Complex Determines the Balance between Precursor Maintenance versus Differentiation during Mammalian Neurogenesis.**  
Amadei G, Zander MA, Yang G, Dumelie JG, Vessey JP, Lipshitz HD, et al.  
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35(47):15666-15681. [PMID: 26609159](#) DOI: 10.1523/JNEUROSCI.2172-15.2015

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34. **Simultaneous visualization and cell-specific confirmation of RNA and protein in the mouse retina.**  
Stempel AJ, Morgans CW, Stout JT, Appukuttan B.  
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35. **Expression of olfactory signaling genes in the eye.**  
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