

# Borek Vojtesek

## List of Publications by Year in descending order

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106  
papers

4,886  
citations

109321

35  
h-index

106344

65  
g-index

109  
all docs

109  
docs citations

109  
times ranked

6343  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | An immunochemical analysis of the human nuclear phosphoprotein p53. <i>Journal of Immunological Methods</i> , 1992, 151, 237-244.  | 1.4 | 524       |
| 2  | Analysis of p53 expression in human tumours: an antibody raised against human p53 expressed in <i>Escherichia coli</i> . <i>Journal of Cell Science</i> , 1992, 101, 183-190.  | 2.0 | 298       |
| 3  | The role of the 3' untranslated region in post-transcriptional regulation of protein expression in mammalian cells. <i>RNA Biology</i> , 2012, 9, 563-576.   | 3.1 | 297       |
| 4  | Differential expression of p63 isoforms in normal tissues and neoplastic cells. <i>Journal of Pathology</i> , 2002, 198, 417-427.  | 4.5 | 246       |
| 5  | STAT3, stem cells, cancer stem cells and p63. <i>Cellular and Molecular Biology Letters</i> , 2018, 23, 12.  | 7.0 | 188       |
| 6  | C-terminal phosphorylation of Hsp70 and Hsp90 regulates alternate binding to co-chaperones CHIP and HOP to determine cellular protein folding/degradation balances. <i>Oncogene</i> , 2013, 32, 3101-3110.   | 5.9 | 171       |
| 7  | Discriminating functional and non-functional p53 in human tumours by p53 and MDM2 immunohistochemistry. <i>Journal of Pathology</i> , 2005, 207, 251-259.  | 4.5 | 128       |
| 8  | Emerging roles for the pro-oncogenic anterior gradient-2 in cancer development. <i>Oncogene</i> , 2013, 32, 2499-2509.   | 5.9 | 126       |
| 9  | Up-regulation of Fas (CD95) in human p53 wild-type cancer cells treated with ionizing radiation. , 1997, 73, 757-762.  |     | 109       |
| 10 | Anterior gradient 2: A novel player in tumor cell biology. <i>Cancer Letters</i> , 2011, 304, 1-7.   | 7.2 | 109       |
| 11 | Biomarker Discovery in Low-Grade Breast Cancer Using Isobaric Stable Isotope Tags and Two-Dimensional Liquid Chromatography-Tandem Mass Spectrometry (iTRAQ-2DLC-MS/MS) Based Quantitative Proteomic Analysis. <i>Journal of Proteome Research</i> , 2009, 8, 362-373. | 3.7 | 98        |
| 12 | Immunohistochemical analysis of the p53 oncoprotein on paraffin sections using a series of novel monoclonal antibodies. <i>Journal of Pathology</i> , 1993, 169, 27-34.  | 4.5 | 95        |
| 13 | The pro-metastatic protein anterior gradient-2 predicts poor prognosis in tamoxifen-treated breast cancers. <i>Oncogene</i> , 2010, 29, 4838-4847.   | 5.9 | 87        |
| 14 | Stoichiometric Phosphorylation of Human p53 at Ser315 Stimulates p53-dependent Transcription. <i>Journal of Biological Chemistry</i> , 2001, 276, 4699-4708.   | 3.4 | 84        |
| 15 | Tumor suppressor protein p53 binds preferentially to supercoiled DNA. <i>Oncogene</i> , 1997, 15, 2201-2209.   | 5.9 | 82        |
| 16 | The role of P63 in cancer, stem cells and cancer stem cells. <i>Cellular and Molecular Biology Letters</i> , 2011, 16, 296-327.  | 7.0 | 72        |
| 17 | Conformational changes in p53 analysed using new antibodies to the core DNA binding domain of the protein. <i>Oncogene</i> , 1995, 10, 389-93.   | 5.9 | 67        |
| 18 | Effect of transition metals on binding of p53 protein to supercoiled DNA and to consensus sequence in DNA fragments. <i>Oncogene</i> , 1999, 18, 3617-3625.  | 5.9 | 63        |

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|----|---|------|-----------|
| 19 | Cross-talk between HIF and p53 as mediators of molecular responses to physiological and genotoxic stresses. <i>Molecular Cancer</i> , 2013, 12, 93.   | 19.2 | 63        |
| 20 | Polymorphisms in p53 and the p53 pathway: roles in cancer susceptibility and response to treatment. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 440-453.  | 3.6  | 60        |
| 21 | Role of tumor suppressor p53 domains in selective binding to supercoiled DNA. <i>Nucleic Acids Research</i> , 2002, 30, 4966-4974.  | 14.5 | 57        |
| 22 | New ELISA technique for analysis of p53 protein/DNA binding properties. <i>Journal of Immunological Methods</i> , 2002, 267, 227-235.   | 1.4  | 56        |
| 23 | Hsp90 Is Essential for Restoring Cellular Functions of Temperature-sensitive p53 Mutant Protein but Not for Stabilization and Activation of Wild-type p53. <i>Journal of Biological Chemistry</i> , 2005, 280, 6682-6691. | 3.4  | 54        |
| 24 | A global analysis of the complex landscape of isoforms and regulatory networks of p63 in human cells and tissues. <i>BMC Genomics</i> , 2015, 16, 584.  | 2.8  | 52        |
| 25 | p53 derived from human tumour cell lines and containing distinct point mutations can be activated to bind its consensus target sequence. <i>Oncogene</i> , 1995, 10, 881-90.  | 5.9  | 48        |
| 26 | A Divergent Substrate-Binding Loop within the Pro-oncogenic Protein Anterior Gradient-2 Forms a Docking Site for Reptin. <i>Journal of Molecular Biology</i> , 2010, 404, 418-438.  | 4.2  | 47        |
| 27 | Mechanisms of anterior gradient-2 regulation and function in cancer. <i>Seminars in Cancer Biology</i> , 2015, 33, 16-24.   | 9.6  | 44        |
| 28 | Potent induction of wild-type p53-dependent transcription in tumour cells by a synthetic inhibitor of cyclin-dependent kinases. <i>Cellular and Molecular Life Sciences</i> , 2001, 58, 1333-1339.                        | 5.4  | 43        |
| 29 | AGR2 oncoprotein inhibits p38 MAPK and p53 activation through a DUSP10-mediated regulatory pathway. <i>Molecular Oncology</i> , 2016, 10, 652-662.  | 4.6  | 43        |
| 30 | The Assembly and Intermolecular Properties of the Hsp70-Tomm34-Hsp90 Molecular Chaperone Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 9887-9901.  | 3.4  | 42        |
| 31 | On the regulation of the p53 tumour suppressor, and its role in the cellular response to DNA damage. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1995, 347, 83-87.                    | 4.0  | 41        |
| 32 | Anterior Gradient-3: A novel biomarker for ovarian cancer that mediates cisplatin resistance in xenograft models. <i>Journal of Immunological Methods</i> , 2012, 378, 20-32.   | 1.4  | 41        |
| 33 | Alterations of the Hsp70/Hsp90 chaperone and the HOP/CHIP co-chaperone system in cancer. <i>Cellular and Molecular Biology Letters</i> , 2012, 17, 446-58.  | 7.0  | 41        |
| 34 | The role of AGR2 and AGR3 in cancer: Similar but not identical. <i>European Journal of Cell Biology</i> , 2015, 94, 139-147.  | 3.6  | 41        |
| 35 | The p53 knowledgebase: an integrated information resource for p53 research. <i>Oncogene</i> , 2007, 26, 1517-1521.  | 5.9  | 40        |
| 36 | Investigations of the supercoil-selective DNA binding of wild type p53 suggest a novel mechanism for controlling p53 function. <i>FEBS Journal</i> , 2004, 271, 3865-3876.  | 0.2  | 37        |

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|----|---|------|-----------|
| 37 | Surface-enhanced laser desorption/ionization time-of-flight proteomic profiling of breast carcinomas identifies clinicopathologically relevant groups of patients similar to previously defined clusters from cDNA expression. <i>Breast Cancer Research</i> , 2008, 10, R48. | 5.0  | 36        |
| 38 | Human Stress-inducible Hsp70 Has a High Propensity to Form ATP-dependent Antiparallel Dimers That Are Differentially Regulated by Cochaperone Binding*. <i>Molecular and Cellular Proteomics</i> , 2019, 18, 320-337.   | 3.8  | 35        |
| 39 | Activation of the DNA-binding ability of latent p53 protein by protein kinase C is abolished by protein kinase CK2. <i>Biochemical Journal</i> , 2004, 378, 939-947.  | 3.7  | 33        |
| 40 | $^{125}$ I-p53 transcriptionally regulates ATM to control p53 Serine-15 phosphorylation. <i>Molecular Cancer</i> , 2010, 9, 195.  | 19.2 | 33        |
| 41 | Suppression of AGR2 in a TGF- $\beta$ -induced Smad regulatory pathway mediates epithelial-mesenchymal transition. <i>BMC Cancer</i> , 2017, 17, 546.   | 2.6  | 30        |
| 42 | Specific Modulation of p53 Binding to Consensus Sequence within Supercoiled DNA by Monoclonal Antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2000, 267, 934-939.  | 2.1  | 29        |
| 43 | Characterization of specific p63 and p63-N-terminal isoform antibodies and their application for immunohistochemistry. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2013, 463, 415-425.                                      | 2.8  | 29        |
| 44 | AGR2 Predicts Tamoxifen Resistance in Postmenopausal Breast Cancer Patients. <i>Disease Markers</i> , 2013, 35, 207-212.  | 1.3  | 29        |
| 45 | Identification of a second Nutlin-3 responsive interaction site in the N-terminal domain of MDM2 using hydrogen/deuterium exchange mass spectrometry. <i>Proteomics</i> , 2013, 13, 2512-2525.  | 2.2  | 28        |
| 46 | $\beta$ -catenin/MDM2/SNP309 Does Not Associate with Elevated MDM2 Protein Expression or Breast Cancer Risk. <i>Oncology</i> , 2008, 74, 84-87.   | 1.9  | 27        |
| 47 | Restoring wild-type conformation and DNA-binding activity of mutant p53 is insufficient for restoration of transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 499-506.   | 2.1  | 26        |
| 48 | The new platinum(IV) derivative LA-12 shows stronger inhibitory effect on Hsp90 function compared to cisplatin. <i>Molecular Cancer</i> , 2010, 9, 147.   | 19.2 | 26        |
| 49 | The diverse oncogenic and tumour suppressor roles of p63 and p73 in cancer: a review by cancer site. <i>Histology and Histopathology</i> , 2015, 30, 503-21.  | 0.7  | 26        |
| 50 | Impaired Pre-mRNA Processing and Altered Architecture of 3' Untranslated Regions Contribute to the Development of Human Disorders. <i>International Journal of Molecular Sciences</i> , 2013, 14, 15681-15694.  | 4.1  | 25        |
| 51 | Influence of mutation type on prognostic and predictive values of TP53 status in primary breast cancer patients. <i>Oncology Reports</i> , 2014, 32, 1695-1702.   | 2.6  | 25        |
| 52 | Identification of an AKT-dependent signalling pathway that mediates tamoxifen-dependent induction of the pro-metastatic protein anterior gradient-2. <i>Cancer Letters</i> , 2013, 333, 187-193.  | 7.2  | 24        |
| 53 | Resistance mechanisms to inhibitors of p53-MDM2 interactions in cancer therapy: can we overcome them?. <i>Cellular and Molecular Biology Letters</i> , 2021, 26, 53.  | 7.0  | 24        |
| 54 | The new platinum-based anticancer agent LA-12 induces retinol binding protein 4 in vivo. <i>Proteome Science</i> , 2011, 9, 68.   | 1.7  | 23        |

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|----|---|-----|-----------|
| 55 | Recognition of DNA modified by antitumor cisplatin by $\alpha$ -latent and $\alpha$ -active protein p53. <i>Biochemical Pharmacology</i> , 2003, 65, 1305-1316.   | 4.4 | 22        |
| 56 | CK2-site Phosphorylation of p53 is Induced in $^{125}$ I-Np63 Expressing Basal Stem Cells in UVB Irradiated Human Skin. <i>Cell Cycle</i> , 2006, 5, 2489-2494.   | 2.6 | 22        |
| 57 | $^{125}$ I-Np63 activates EGFR signaling to induce loss of adhesion in triple-negative basal-like breast cancer cells. <i>Breast Cancer Research and Treatment</i> , 2017, 163, 475-484.  | 2.5 | 22        |
| 58 | Precise characterisation of monoclonal antibodies to the C-terminal region of p53 protein using the PEPSCAN ELISA technique and a new non-radioactive gel shift assay. <i>Journal of Immunological Methods</i> , 2000, 237, 51-64.          | 1.4 | 21        |
| 59 | Intronic polymorphisms in TP53 indicate lymph node metastasis in breast cancer. <i>Oncology Reports</i> , 2009, 22, 1205-11.  | 2.6 | 20        |
| 60 | Intact protein profiling in breast cancer biomarker discovery: Protein identification issue and the solutions based on 3D protein separation, bottom-up and top-down mass spectrometry. <i>Proteomics</i> , 2013, 13, 1053-1058.            | 2.2 | 20        |
| 61 | Mutant p53 accumulation in human breast cancer is not an intrinsic property or dependent on structural or functional disruption but is regulated by exogenous stress and receptor status. <i>Journal of Pathology</i> , 2014, 233, 238-246. | 4.5 | 20        |
| 62 | Differential expression of anterior gradient protein 3 in intrahepatic cholangiocarcinoma and hepatocellular carcinoma. <i>Experimental and Molecular Pathology</i> , 2014, 96, 375-381.  | 2.1 | 20        |
| 63 | The novel platinum(IV) complex LA-12 induces p53 and p53/47 responses that differ from the related drug, cisplatin. <i>Anti-Cancer Drugs</i> , 2008, 19, 369-379.   | 1.4 | 19        |
| 64 | TAp63 $\gamma$ is required for the late stages of myogenesis. <i>Cell Cycle</i> , 2015, 14, 894-901.  | 2.6 | 19        |
| 65 | Novel Entropically Driven Conformation-specific Interactions with Tomm34 Protein Modulate Hsp70 Protein Folding and ATPase Activities. <i>Molecular and Cellular Proteomics</i> , 2016, 15, 1710-1727.                                      | 3.8 | 19        |
| 66 | The effects of IFITM1 and IFITM3 gene deletion on IFN $\beta$ stimulated protein synthesis. <i>Cellular Signalling</i> , 2019, 60, 39-56.   | 3.6 | 19        |
| 67 | Development of a fluorescent monoclonal antibody-based assay to measure the allosteric effects of synthetic peptides on self-oligomerization of AGR2 protein. <i>Protein Science</i> , 2013, 22, 1266-1278.                                 | 7.6 | 18        |
| 68 | Effect of His6-tagging of anterior gradient 2 protein on its electro-oxidation. <i>Electrochimica Acta</i> , 2014, 150, 218-222.  | 5.2 | 18        |
| 69 | Tamoxifen-Dependent Induction of <i>AGR2</i> Is Associated with Increased Aggressiveness of Endometrial Cancer Cells. <i>Cancer Investigation</i> , 2017, 35, 313-324.  | 1.3 | 18        |
| 70 | Surface-Enhanced Laser Desorption Ionization/Time-of-Flight Mass Spectrometry Reveals Significant Artifacts in Serum Obtained from Clot Activator-Containing Collection Devices. <i>Clinical Chemistry</i> , 2006, 52, 2115-2116.           | 3.2 | 17        |
| 71 | Anterior gradient protein 3 is associated with less aggressive tumors and better outcome of breast cancer patients. <i>OncoTargets and Therapy</i> , 2015, 8, 1523.   | 2.0 | 17        |
| 72 | $^{125}$ I-Np63 $\pm$ expression induces loss of cell adhesion in triple-negative breast cancer cells. <i>BMC Cancer</i> , 2016, 16, 782.   | 2.6 | 17        |

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|----|--|-----|-----------|
| 73 | AGR2 associates with HER2 expression predicting poor outcome in subset of estrogen receptor negative breast cancer patients. <i>Experimental and Molecular Pathology</i> , 2017, 102, 280-283.   | 2.1 | 17        |
| 74 | Quantitative Shotgun Proteomics Unveils Candidate Novel Esophageal Adenocarcinoma (EAC)-specific Proteins. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 1138-1150.   | 3.8 | 17        |
| 75 | p63 isoforms in triple-negative breast cancer: $\Delta$ Np63 associates with the basal phenotype whereas TAp63 associates with androgen receptor, lack of BRCA mutation, PTEN and improved survival. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2018, 472, 351-359. | 2.8 | 17        |
| 76 | The Sequence-specific Peptide-binding Activity of the Protein Sulfide Isomerase AGR2 Directs Its Stable Binding to the Oncogenic Receptor EpCAM. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 737-763.   | 3.8 | 16        |
| 77 | The effect of cellular environment and p53 status on the mode of action of the platinum derivative LA-12. <i>Investigational New Drugs</i> , 2010, 28, 445-453.  | 2.6 | 15        |
| 78 | Rearrangement of mitochondrial pyruvate dehydrogenase subunit dihydrolipoamide dehydrogenase protein-protein interactions by the MDM2 ligand nutlin-3. <i>Proteomics</i> , 2016, 16, 2327-2344.  | 2.2 | 14        |
| 79 | The role of miR-409-3p in regulation of HPV16/18-E6 mRNA in human cervical high-grade squamous intraepithelial lesions. <i>Antiviral Research</i> , 2019, 163, 185-192.  | 4.1 | 14        |
| 80 | The MDM2 ligand Nutlin-3 differentially alters expression of the immune blockade receptors PD-L1 and CD276. <i>Cellular and Molecular Biology Letters</i> , 2020, 25, 41.  | 7.0 | 14        |
| 81 | The Role of IFITM Proteins in Tick-Borne Encephalitis Virus Infection. <i>Journal of Virology</i> , 2022, 96, JVI0113021.  | 3.4 | 14        |
| 82 | $\Delta$ Np63/p40 correlates with the location and phenotype of basal/mesenchymal cancer stem-like cells in human ER <sup>+</sup> and HER2 <sup>+</sup> breast cancers. <i>Journal of Pathology: Clinical Research</i> , 2020, 6, 83-93.   | 3.0 | 13        |
| 83 | What do we need to know and understand about p53 to improve its clinical value?. <i>Journal of Pathology</i> , 2021, 254, 443-453.   | 4.5 | 13        |
| 84 | The cell type-specific effect of TAp73 isoforms on the cell cycle and apoptosis. <i>Cellular and Molecular Biology Letters</i> , 2008, 13, 404-20.   | 7.0 | 12        |
| 85 | Regulation of AGR2 expression via 3'UTR shortening. <i>Experimental Cell Research</i> , 2017, 356, 40-47.  | 2.6 | 12        |
| 86 | Tomm34 is commonly expressed in epithelial ovarian cancer and associates with tumour type and high FIGO stage. <i>Journal of Ovarian Research</i> , 2019, 12, 30.  | 3.0 | 12        |
| 87 | The interaction of the mitochondrial protein importer TOMM34 with HSP70 is regulated by TOMM34 phosphorylation and binding to 14-3-3 adaptors. <i>Journal of Biological Chemistry</i> , 2020, 295, 8928-8944.  | 3.4 | 12        |
| 88 | Switching p53-dependent growth arrest to apoptosis via the inhibition of DNA damage-activated kinases. <i>Cellular and Molecular Biology Letters</i> , 2010, 15, 473-84.   | 7.0 | 11        |
| 89 | Inhibition of Post-Transcriptional RNA Processing by CDK Inhibitors and Its Implication in Anti-Viral Therapy. <i>PLoS ONE</i> , 2014, 9, e89228.  | 2.5 | 11        |
| 90 | TAp63 and $\Delta$ Np63 (p40) in prostate adenocarcinomas: $\Delta$ Np63 associates with a basal-like cancer stem cell population but not with metastasis. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2021, 478, 627-636.   | 2.8 | 10        |

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|-----|---|-----|-----------|
| 91  | TAp73 <sup>Δ2</sup> Can Promote Hepatocellular Carcinoma Dedifferentiation. <i>Cancers</i> , 2021, 13, 783.   | 3.7 | 10        |
| 92  | Anterior Gradient 2 and Mucin 4 Expression Mirrors Tumor Cell Differentiation in Pancreatic Adenocarcinomas, But Aberrant Anterior Gradient 2 Expression Predicts Worse Patient Outcome in Poorly Differentiated Tumors. <i>Pancreas</i> , 2014, 43, 75-81. | 1.1 | 9         |
| 93  | The Elephant Evolved p53 Isoforms that Escape MDM2-Mediated Repression and Cancer. <i>Molecular Biology and Evolution</i> , 2022, 39, .   | 8.9 | 9         |
| 94  | Intrinsic proteotoxic stress levels vary and act as a predictive marker for sensitivity of cancer cells to Hsp90 inhibition. <i>PLoS ONE</i> , 2018, 13, e0202758.  | 2.5 | 7         |
| 95  | A Cyclic Pentamethinium Salt Induces Cancer Cell Cytotoxicity through Mitochondrial Disintegration and Metabolic Collapse. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4208.   | 4.1 | 7         |
| 96  | An Ultrasensitive Biosensor for Detection of Femtogram Levels of the Cancer Antigen AGR2 Using Monoclonal Antibody Modified Screen-Printed Gold Electrodes. <i>Biosensors</i> , 2021, 11, 184.  | 4.7 | 7         |
| 97  | Targeting Oncogenic Pathways in the Era of Personalized Oncology: A Systemic Analysis Reveals Highly Mutated Signaling Pathways in Cancer Patients and Potential Therapeutic Targets. <i>Cancers</i> , 2022, 14, 664.                                       | 3.7 | 7         |
| 98  | AGR2 silencing contributes to metformin-dependent sensitization of colorectal cancer cells to chemotherapy. <i>Oncology Letters</i> , 2019, 18, 4964-4973.  | 1.8 | 6         |
| 99  | A co-spindle and thread mechanism unblocks p53 translation by modulating N-terminal disorder. <i>Structure</i> , 2022, 30, 733-742.e7.  | 3.3 | 5         |
| 100 | The effects of p53 gene inactivation on mutant proteome expression in a human melanoma cell model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129722.  | 2.4 | 4         |
| 101 | Anticancer pentamethinium salt is a potent photosensitizer inducing mitochondrial disintegration and apoptosis upon red light illumination. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 209, 111939.                               | 3.8 | 4         |
| 102 | Kinomics platform using GBM tissue identifies BTK as being associated with higher patient survival. <i>Life Science Alliance</i> , 2021, 4, e202101054.   | 2.8 | 4         |
| 103 | Identifying pathways regulating the oncogenic p53 family member $\Delta 2$ p53 provides therapeutic avenues for squamous cell carcinoma. <i>Cellular and Molecular Biology Letters</i> , 2022, 27, 18.  | 7.0 | 4         |
| 104 | Allosteric changes in HDM2 by the ATM phosphomimetic S395D mutation: implications on HDM2 function. <i>Biochemical Journal</i> , 2019, 476, 3401-3411.  | 3.7 | 3         |
| 105 | DNA Demethylation Switches Oncogenic $\Delta 2$ p53 to Tumor Suppressive TAp63 in Squamous Cell Carcinoma. <i>Frontiers in Oncology</i> , 0, 12, .  | 2.8 | 2         |
| 106 | An integrated DNA and RNA variant detector identifies a highly conserved three base exon in the <i>MAP4K5</i> kinase locus. <i>RNA Biology</i> , 2021, 18, 2556-2575.   | 3.1 | 1         |