# Martin McMahon

List of Publications by Year
in descending order

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|---|---|---|---|
| 105 papers | 12,740 citations | 30070 54 h-index | 32842 100 g-index |
| 108 all docs | 108 docs citations | 108 times ranked | 18777 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hedgehog is an early and late mediator of pancreatic cancer tumorigenesis. Nature, 2003, 425, 851-856. | 27.8 | 1,395 |
| 2 | BrafV600E cooperates with Pten loss to induce metastatic melanoma. Nature Genetics, 2009, 41, 544-552. | 21.4 | 1,022 |
| 3 | Targeting RAF kinases for cancer therapy: BRAF-mutated melanoma and beyond. Nature Reviews Cancer, 2014, 14, 455-467. | 28.4 | 683 |
| 4 | Protective autophagy elicited by RAFâ†'MEKâ†'ERK inhibition suggests a treatment strategy for RAS-driven cancers. Nature Medicine, 2019, 25, 620-627. | 30.7 | 457 |
| 5 | The Hippo effector YAP promotes resistance to RAF- and MEK-targeted cancer therapies. Nature Genetics, 2015, 47, 250-256. | 21.4 | 434 |
| 6 | A new mouse model to explore the initiation, progression, and therapy of BRAFV600E-induced lung tumors. Genes and Development, 2007, 21, 379-384. | 5.9 | 427 |
| 7 | An ultraviolet-radiation-independent pathway to melanoma carcinogenesis in the red hair/fair skin background. Nature, 2012, 491, 449-453. | 27.8 | 406 |
| 8 | Autophagy Sustains Mitochondrial Glutamine Metabolism and Growth of BrafV600Eâ€"Driven Lung Tumors. Cancer Discovery, 2013, 3, 1272-1285. | 9.4 | 382 |
| 9 | Opposing Effects of Ras on p53. Cell, 2000, 103, 321-330. | 28.9 | 346 |
| 10 | Î²-Catenin Signaling Controls Metastasis in Braf-Activated Pten-Deficient Melanomas. Cancer Cell, 2011, 20, 741-754. | 16.8 | 317 |
| 11 | Raf induces TGFÎ² production while blocking its apoptotic but not invasive responses: a mechanism leading to increased malignancy in epithelial cells. Genes and Development, 2000, 14, 2610-2622. | 5.9 | 270 |
| 12 | A Central Role for RAFâ†'MEKâ†'ERK Signaling in the Genesis of Pancreatic Ductal Adenocarcinoma. Cancer Discovery, 2012, 2, 685-693. | 9.4 | 264 |
| 13 | Abrogation of BRAF<sup>V600E</sup>-induced senescence by PI3K pathway activation contributes to melanomagenesis. Genes and Development, 2012, 26, 1055-1069. | 5.9 | 229 |
| 14 | Response to BRAF Inhibition in Melanoma Is Enhanced When Combined with Immune Checkpoint Blockade. Cancer Immunology Research, 2014, 2, 643-654. | 3.4 | 226 |
| 15 | Analysis of the transcriptional program induced by Raf in epithelial cells. Genes and Development, 2001, 15, 981-994. | 5.9 | 222 |
| 16 | Elucidating Distinct Roles for NF1 in Melanomagenesis. Cancer Discovery, 2013, 3, 338-349. | 9.4 | 213 |
| 17 | Phenformin enhances the therapeutic benefit of BRAF <sup>V600E</sup> inhibition in melanoma. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18226-18231. | 7.1 | 197 |
| 18 | The mitogen-activated protein (MAP) kinase cascade can either stimulate or inhibit DNA synthesis in primary cultures of rat hepatocytes depending upon whether its activation is acute/phasic or chronic. Biochemical Journal, 1998, 330, 1451-1460. | 3.7 | 193 |

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|---|---|---|---|
| 19 | De Novo Infection and Serial Transmission of Kaposi's Sarcoma-Associated Herpesvirus in Cultured Endothelial Cells. Journal of Virology, 2002, 76, 2440-2448. | 3.4 | 185 |
| 20 | The Repertoire of Fos and Jun Proteins Expressed during the G<sub>1</sub> Phase of the Cell Cycle Is Determined by the Duration of Mitogen-Activated Protein Kinase Activation. Molecular and Cellular Biology, 1999, 19, 330-341. | 2.3 | 174 |
| 21 | Control of Mitotic Spindle Angle by the RAS-Regulated ERK1/2 Pathway Determines Lung Tube Shape. Science, 2011, 333, 342-345. | 12.6 | 158 |
| 22 | Diverse Toll-like receptors utilize Tpl2 to activate extracellular signal-regulated kinase (ERK) in hemopoietic cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3274-3279. | 7.1 | 138 |
| 23 | p53 constrains progression to anaplastic thyroid carcinoma in a Braf -mutant mouse model of papillary thyroid cancer. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1600-9. | 7.1 | 131 |
| 24 | Extracellular Signal-regulated Kinase (ERK)-dependent Gene Expression Contributes to L1 Cell Adhesion Molecule-dependent Motility and Invasion. Journal of Biological Chemistry, 2004, 279, 28880-28888. | 3.4 | 126 |
| 25 | Pharmacologic Inhibition of RAFâ†'MEKâ†'ERK Signaling Elicits Pancreatic Cancer Cell Cycle Arrest Through Induced Expression of p27Kip1. Cancer Research, 2005, 65, 4870-4880. | 0.9 | 126 |
| 26 | AKT1 Activation Promotes Development of Melanoma Metastases. Cell Reports, 2015, 13, 898-905. | 6.4 | 124 |
| 27 | Induction of Î²3-Integrin Gene Expression by Sustained Activation of the Ras-Regulated Rafâ€"MEKâ€"Extracellular Signal-Regulated Kinase Signaling Pathway. Molecular and Cellular Biology, 2001, 21, 3192-3205. | 2.3 | 121 |
| 28 | Regulation of Mitogen-activated Protein Kinase Phosphatase-1 Expression by Extracellular Signal-related Kinase-dependent and Ca2+-dependent Signal Pathways in Rat-1 Cells. Journal of Biological Chemistry, 1997, 272, 13309-13319. | 3.4 | 113 |
| 29 | Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord. Development (Cambridge), 2012, 139, 2477-2487. | 2.5 | 112 |
| 30 | Cooperative Regulation of the Cell Division Cycle by the Protein Kinases RAF and AKT. Molecular and Cellular Biology, 2004, 24, 10868-10881. | 2.3 | 109 |
| 31 | Ras-Raf-Arf Signaling Critically Depends on the Dmp1 Transcription Factor. Molecular and Cellular Biology, 2005, 25, 220-232. | 2.3 | 109 |
| 32 | Oncogenic BRAF<sup>V600E</sup> inhibits BIM expression to promote melanoma cell survival. Pigment Cell and Melanoma Research, 2008, 21, 534-544. | 3.3 | 109 |
| 33 | Characterization of Melanoma Cells Capable of Propagating Tumors from a Single Cell. Cancer Research, 2010, 70, 388-397. | 0.9 | 109 |
| 34 | mTORC1 Activation Blocks BrafV600E-Induced Growth Arrest but Is Insufficient for Melanoma Formation. Cancer Cell, 2015, 27, 41-56. | 16.8 | 106 |
| 35 | Induction of Tubulogenesis in Telomerase-Immortalized Human Microvascular Endothelial Cells by Glioblastoma Cells. Experimental Cell Research, 2002, 273, 21-33. | 2.6 | 102 |
| 36 | Persistent Activation of Mitogen-Activated Protein Kinases p42 and p44 and ets-2 Phosphorylation in Response to Colony-Stimulating Factor 1/c-fms Signaling. Molecular and Cellular Biology, 1998, 18, 5148-5156. | 2.3 | 98 |

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|---|---|---|---|
| 37 | Induced Expression of Rnd3 Is Associated with Transformation of Polarized Epithelial Cells by the Rafâ€“MEKâ€“Extracellular Signal-Regulated Kinase Pathway. Molecular and Cellular Biology, 2000, 20, 9364-9375. | 2.3 | 96 |
| 38 | Effects of the RAF/MEK/ERK and PI3K/AKT signal transduction pathways on the abrogation of cytokine-dependence and prevention of apoptosis in hematopoietic cells. Oncogene, 2003, 22, 2478-2492. | 5.9 | 95 |
| 39 | Activating BRAF and PIK3CA Mutations Cooperate to Promote Anaplastic Thyroid Carcinogenesis. Molecular Cancer Research, 2014, 12, 979-986. | 3.4 | 92 |
| 40 | Isolation and Molecular Characterization of Circulating Melanoma Cells. Cell Reports, 2014, 7, 645-653. | 6.4 | 91 |
| 41 | Melanoma models for the next generation of therapies. Cancer Cell, 2021, 39, 610-631. | 16.8 | 90 |
| 42 | Mutationally Activated BRAFV600E Elicits Papillary Thyroid Cancer in the Adult Mouse. Cancer Research, 2011, 71, 3863-3871. | 0.9 | 87 |
| 43 | B-Raf Activation Cooperates with PTEN Loss to Drive c-Myc Expression in Advanced Prostate Cancer. Cancer Research, 2012, 72, 4765-4776. | 0.9 | 87 |
| 44 | Oncogenic Raf-1 Activates p70 S6 Kinase via a Mitogen-activated Protein Kinase-independent Pathway. Journal of Biological Chemistry, 1996, 271, 15762-15768. | 3.4 | 82 |
| 45 | Mutations of critical amino acids affect the biological and biochemical properties of oncogenic A-Raf and Raf-1. Oncogene, 1997, 15, 1021-1033. | 5.9 | 77 |
| 46 | Cooperative interactions of BRAF <sup>V600E</sup> kinase and CDKN2A locus deficiency in pediatric malignant astrocytoma as a basis for rational therapy. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8710-8715. | 7.1 | 77 |
| 47 | The state of melanoma: challenges and opportunities. Pigment Cell and Melanoma Research, 2016, 29, 404-416. | 3.3 | 77 |
| 48 | A conditionally-active form of MEK1 results in autocrine transformation of human and mouse hematopoietic cells. Oncogene, 2000, 19, 526-536. | 5.9 | 76 |
| 49 | Diminished WNT â†' Î²-catenin â†' c-MYC signaling is a barrier for malignant progression of BRAF<sup>V600E</sup>-induced lung tumors. Genes and Development, 2014, 28, 561-575. | 5.9 | 75 |
| 50 | BRAFV600E cooperates with CDX2 inactivation to promote serrated colorectal tumorigenesis. ELife, 2017, 6, . | 6.0 | 73 |
| 51 | Differential AKT dependency displayed by mouse models of BRAFV600E-initiated melanoma. Journal of Clinical Investigation, 2013, 123, 5104-5118. | 8.2 | 72 |
| 52 | Raf-1-induced cell cycle arrest in LNCaP human prostate cancer cells. , 1999, 72, 458-469. | | 65 |
| 53 | Prolonged activation of the mitogen-activated protein kinase pathway promotes DNA synthesis in primary hepatocytes from p21Cip-1/WAF1-null mice, but not in hepatocytes from p16INK4a-null mice. Biochemical Journal, 1998, 336, 551-560. | 3.7 | 64 |
| 54 | Analysis of genomic DNA alterations and mRNA expression patterns in a panel of human pancreatic cancer cell lines. Genes Chromosomes and Cancer, 2005, 44, 37-51. | 2.8 | 62 |

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|---|---|---|---|
| 55 | Transposon mutagenesis identifies genetic drivers of BrafV600E melanoma. Nature Genetics, 2015, 47, 486-495. | 21.4 | 61 |
| 56 | A conditional form of Bruton's tyrosine kinase is sufficient to activate multiple downstream signaling pathways via PLC Gamma 2 in B cells. BMC Immunology, 2001, 2, 4. | 2.2 | 54 |
| 57 | The intermediate-activity <sup>L597V</sup>BRAF mutant acts as an epistatic modifier of oncogenic RAS by enhancing signaling through the RAF/MEK/ERK pathway. Genes and Development, 2012, 26, 1945-1958. | 5.9 | 54 |
| 58 | Complementation of Defective Colony-Stimulating Factor 1 Receptor Signaling and Mitogenesis by Raf and v-Src. Molecular and Cellular Biology, 1999, 19, 1101-1115. | 2.3 | 53 |
| 59 | Dual Growth Arrest Pathways in Astrocytes and Astrocytic Tumors in Response to Raf-1 Activation. Journal of Biological Chemistry, 2001, 276, 18871-18877. | 3.4 | 52 |
| 60 | E-cadherin regulates the behavior and fate of epithelial stem cells and their progeny in the mouse incisor. Developmental Biology, 2012, 366, 357-366. | 2.0 | 52 |
| 61 | PI3â€²-Kinase Inhibition Forestalls the Onset of MEK1/2 Inhibitor Resistance in BRAF-Mutated Melanoma. Cancer Discovery, 2015, 5, 143-153. | 9.4 | 51 |
| 62 | Raf-1 Causes Growth Suppression and Alteration of Neuroendocrine Markers in DMS53 Human Small-Cell Lung Cancer Cells. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 543-549. | 2.9 | 48 |
| 63 | MEK1/2 Inhibition Elicits Regression of Autochthonous Lung Tumors Induced by KRASG12D or BRAFV600E. Cancer Research, 2012, 72, 3048-3059. | 0.9 | 48 |
| 64 | The epidermal growth factor receptor gene family as a target for therapeutic intervention in numerous cancers: whatâ€™s genetics got to do with it?. Expert Opinion on Therapeutic Targets, 2005, 9, 1009-1030. | 3.4 | 47 |
| 65 | BRAFV600E Cooperates with PI3K Signaling, Independent of AKT, to Regulate Melanoma Cell Proliferation. Molecular Cancer Research, 2014, 12, 447-463. | 3.4 | 46 |
| 66 | AKT1E17K Activates Focal Adhesion Kinase and Promotes Melanoma Brain Metastasis. Molecular Cancer Research, 2019, 17, 1787-1800. | 3.4 | 46 |
| 67 | Raf revealed in life-or-death decisions. Nature Genetics, 1997, 16, 214-215. | 21.4 | 45 |
| 68 | Steroid receptor fusion proteins for conditional activation of raf-MEK-ERK signaling pathway. Methods in Enzymology, 2001, 332, 401-417. | 1.0 | 41 |
| 69 | Costello and cardioâ€facioâ€cutaneous syndromes: Moving toward clinical trials in RASopathies. American Journal of Medical Genetics, Part C: Seminars in Medical Genetics, 2011, 157, 136-146. | 1.6 | 41 |
| 70 | Mutationally Activated PIK3CAH1047R Cooperates with BRAFV600E to Promote Lung Cancer Progression. Cancer Research, 2013, 73, 6448-6461. | 0.9 | 40 |
| 71 | Abnormal Ras signaling in Costello syndrome (CS) negatively regulates enamel formation. Human Molecular Genetics, 2014, 23, 682-692. | 2.9 | 36 |
| 72 | Oncogenic Raf-1 Induces the Expression of Non-histone Chromosomal Architectural Protein HMGI-C via a p44/p42 Mitogen-activated Protein Kinase-dependent Pathway in Salivary Epithelial Cells. Journal of Biological Chemistry, 1997, 272, 25062-25070. | 3.4 | 35 |

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|---|---|---|---|
| 73 | Chloroquine SensitizesGNAQ/11-mutated Melanoma to MEK1/2 Inhibition. Clinical Cancer Research, 2020, 26, 6374-6386. | 7.0 | 35 |
| 74 | Oncogeneâ€dependent control of <scp>miRNA</scp> biogenesis and metastatic progression in a model of undifferentiated pleomorphic sarcoma. Journal of Pathology, 2013, 229, 132-140. | 4.5 | 34 |
| 75 | Ras-induced serine phosphorylation of the focal adhesion protein paxillin is mediated by the Rafâ†'MEKâ†'ERK pathway. Experimental Cell Research, 2003, 287, 325-338. | 2.6 | 27 |
| 76 | Conditional EGFR Promotes Cell Cycle Progression and Prevention of Apoptosis in the Absence of Autocrine Cytokines. Cell Cycle, 2005, 4, 822-830. | 2.6 | 27 |
| 77 | PIK3CAH1047R Accelerates and Enhances KRASG12D-Driven Lung Tumorigenesis. Cancer Research, 2015, 75, 5378-5391. | 0.9 | 27 |
| 78 | Concurrent MEK targeted therapy prevents MAPK pathway reactivation during BRAFV600E targeted inhibition in a novel syngeneic murine glioma model. Oncotarget, 2016, 7, 75839-75853. | 1.8 | 27 |
| 79 | TP53 Silencing Bypasses Growth Arrest of BRAFV600E-Induced Lung Tumor Cells in a Two-Switch Model of Lung Tumorigenesis. Cancer Research, 2015, 75, 3167-3180. | 0.9 | 25 |
| 80 | Down-regulation of Cdx2 in colorectal carcinoma cells by the Rafâ€"MEKâ€"ERK 1/2 pathway. Cellular Signalling, 2009, 21, 1846-1856. | 3.6 | 23 |
| 81 | The Fastest Western in Town: A Contemporary Twist on the Classic Western Blot Analysis. Journal of Visualized Experiments, 2014, , e51149. | 0.3 | 21 |
| 82 | Analysis of mRNA Profiles after MEK1/2 Inhibition in Human Pancreatic Cancer Cell Lines Reveals Pathways Involved in Drug Sensitivity. Molecular Cancer Research, 2012, 10, 1607-1619. | 3.4 | 20 |
| 83 | Effects of a conditionally active v-ErbB and an EGF-R inhibitor on transformation of NIH-3T3 cells and abrogation of cytokine dependency of hematopoietic cells. Oncogene, 2004, 23, 7810-7820. | 5.9 | 19 |
| 84 | Î"Raf-1:ER* Bypasses the Cyclic AMP Block of Extracellular Signal-Regulated Kinase 1 and 2 Activation but Not CDK2 Activation or Cell Cycle Reentry. Molecular and Cellular Biology, 2003, 23, 9303-9317. | 2.3 | 18 |
| 85 | Mutationally-activated PI3â€™-kinase-Î± promotes de-differentiation of lung tumors initiated by the BRAFV600E oncoprotein kinase. ELife, 2019, 8, . | 6.0 | 18 |
| 86 | Regulation of the p53 pathway by Ras, the plot thickens. Biochimica Et Biophysica Acta: Reviews on Cancer, 2001, 1471, M63-M71. | 7.4 | 17 |
| 87 | Inhibition of MEK1/2 Forestalls the Onset of Acquired Resistance to Entrectinib in Multiple Models of NTRK1-Driven Cancer. Cell Reports, 2020, 32, 107994. | 6.4 | 15 |
| 88 | Autophagy Inhibition in BRAF-Driven Cancers. Cancers, 2021, 13, 3498. | 3.7 | 13 |
| 89 | PIK3CAâ€mutated melanoma cells rely on cooperative signaling through mTORC1/2 for sustained proliferation. Pigment Cell and Melanoma Research, 2017, 30, 353-367. | 3.3 | 9 |
| 90 | A Model of Intussusceptive Angiogenesis. Novartis Foundation Symposium, 2007, 283, 37-45. | 1.1 | 8 |

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| 91 | Hematopoietic Expression of Oncogenic BRAF Promotes Aberrant Growth of Monocyte-Lineage Cells Resistant to PLX4720. Molecular Cancer Research, 2013, 11, 1530-1541. | 3.4 | 7 |
| 92 | The role of PI3'â€lipid signalling in melanoma initiation, progression and maintenance. Experimental Dermatology, 2022, 31, 43-56. | 2.9 | 7 |
| 93 | Identification of Immediateâ€“Early Gene Targets of the Raf-1 Serine/Threonine Protein Kinase Using an Estradiol-Dependent Fusion Protein, Î”Raf-1:ER. , 1997, 85, 137-152. | | 6 |
| 94 | Parsing out the complexity of RAF inhibitor resistance. Pigment Cell and Melanoma Research, 2011, 24, 361-365. | 3.3 | 6 |
| 95 | Rational targeting of BRAF and PI3-Kinase signaling for melanoma therapy. Molecular and Cellular Oncology, 2016, 3, e1033095. | 0.7 | 6 |
| 96 | RAF translocations expand cancer targets. Nature Medicine, 2010, 16, 749-750. | 30.7 | 5 |
| 97 | Enzyme meets a surprise target. Nature, 2014, 510, 225-226. | 27.8 | 5 |
| 98 | Animal Models of Melanoma. , 2018, , 1-31. | | 3 |
| 99 | Linking brain tumors and epileptic seizures. Nature Medicine, 2018, 24, 1638-1639. | 30.7 | 3 |
| 100 | RAC1mutation is not a predictive biomarker for PI3â€™â€kinaseâ€Î²â€selective pathwayâ€targeted therapy. Pigment Cell and Melanoma Research, 2020, 33, 719-730. | 3.3 | 2 |
| 101 | Regulated temporal-spatial astrocyte precursor cell proliferation involves BRAF signalling in mammalian spinal cord.. Journal of Cell Science, 2012, 125, e1-e1. | 2.0 | 2 |
| 102 | P2A-Fluorophore Tagging of BRAF Tightly Links Expression to Fluorescence In Vivo. PLoS ONE, 2016, 11, e0157661. | 2.5 | 2 |
| 103 | Animal Models of Melanoma. , 2019, , 303-333. | | 0 |
| 104 | Modelâ€dependent outcomes: Sex as a biological variable in preclinical mouse models of melanoma. Pigment Cell and Melanoma Research, 2021, 34, 655-658. | 3.3 | 0 |
| 105 | BRAF V600E â€•and PI3â€²Kâ€activated signaling pathways cooperate to regulate phosphorylation of ribosomal protein S6 in human melanoma cells. FASEB Journal, 2012, 26, 967.8. | 0.5 | 0 |