
REFERENCES

1. Akshata Desai, K. A. (2012). Triple Negative Breast Cancer – An Overview. *Hereditary Genetics*. <https://doi.org/10.4172/2161-1041.S2-001>
2. Aktar, A., Vrieze, A. M., Telesnicki, K., Cox-Duvall, P., Arbolino, M., DeKoter, R. P., Nagpal, A. D., & Heit, B. (2025). GATA2 induces a stem cell–like transcriptional program in macrophages that promotes an atherogenic phenotype. *Journal of Leukocyte Biology*, 117(10). <https://doi.org/10.1093/jleuko/qiaf136>
3. Ankasha, S. J., Shafiee, M. N., Wahab, N. A., Ali, R. A. R., & Mokhtar, N. M. (2018). Post-transcriptional regulation of microRNAs in cancer: From prediction to validation. *Oncology Reviews*. <https://doi.org/10.4081/oncol.2018.344>
4. Ardito, F., Giuliani, M., Perrone, D., Troiano, G., & Muzio, L. Lo. (2017). The crucial role of protein phosphorylation in cell signaling and its use as targeted therapy (Review). *International Journal of Molecular Medicine*, 40(2), 271–280. <https://doi.org/10.3892/ijmm.2017.3036>
5. Aum, D. J., Kim, D. H., Beaumont, T. L., Leuthardt, E. C., Dunn, G. P., & Kim, A. H. (2014). Molecular and cellular heterogeneity: The hallmark of glioblastoma. *Neurosurgical Focus*, 37(6). <https://doi.org/10.3171/2014.9.FOCUS14521>
6. Baumgart, S., Ellenrieder, V., & Fernandez-Zapico, M. E. (2013). Oncogenic transcription factors: cornerstones of inflammation-linked pancreatic carcinogenesis. *Gut*, 62(2), 310–316. <https://doi.org/10.1136/gutjnl-2011-301008>
7. Beck, B. H., & Welch, D. R. (2010). The KISS1 metastasis suppressor: A good night kiss for disseminated cancer cells. *European Journal of Cancer*, 46(7), 1283–1289. <https://doi.org/10.1016/j.ejca.2010.02.023>
8. Behrooz, A. B., & Syahir, A. (2021). Could We Address the Interplay Between CD133, Wnt/ β -Catenin, and TERT Signaling Pathways as a Potential Target for Glioblastoma Therapy? *Frontiers in Oncology*, 11. <https://doi.org/10.3389/fonc.2021.642719>
9. Binder, Z. A., Thorne, A. H., Bakas, S., Wileyto, E. P., Bilello, M., Akbari, H., Rathore, S., Ha, S. M., Zhang, L., Ferguson, C. J., Dahiya, S., Bi, W. L., Reardon, D. A., Idhah, A., Felsberg, J., Hentschel, B., Weller, M., Bagley, S. J., Morrisette, J. J. D., ... O'Rourke, D. M. (2018). Epidermal Growth Factor Receptor Extracellular Domain Mutations in Glioblastoma Present Opportunities for Clinical Imaging and Therapeutic Development. *Cancer Cell*, 34(1), 163-177.e7. <https://doi.org/10.1016/j.ccell.2018.06.006>

10. Biran, J., Ben-Dor, S., & Levavi-Sivan, B. (2008). Molecular Identification and Functional Characterization of the Kisspeptin/Kisspeptin Receptor System in Lower Vertebrates¹. *Biology of Reproduction*, 79(4), 776–786. <https://doi.org/10.1095/biolreprod.107.066266>
11. Blake, A., Dragan, M., Tirona, R. G., Hardy, D. B., Brackstone, M., Tuck, A. B., Babwah, A. V., & Bhattacharya, M. (2017). G protein-coupled KISS1 receptor is overexpressed in triple negative breast cancer and promotes drug resistance. *Scientific Reports*, 7. <https://doi.org/10.1038/srep46525>
12. Brown, D. V., Stylli, S. S., Kaye, A. H., & Mantamadiotis, T. (2019). Multilayered Heterogeneity of Glioblastoma Stem Cells: Biological and Clinical Significance (pp. 1–21). https://doi.org/10.1007/978-3-030-14366-4_1
13. Brunelle, J. K., & Letai, A. (2009). Control of mitochondrial apoptosis by the Bcl-2 family. *Journal of Cell Science*, 122(4), 437–441. <https://doi.org/10.1242/jcs.031682>
14. Bruner, H. C., & Derksen, P. W. B. (2018). Loss of E-Cadherin-Dependent Cell–Cell Adhesion and the Development and Progression of Cancer. *Cold Spring Harbor Perspectives in Biology*, 10(3), a029330. <https://doi.org/10.1101/cshperspect.a029330>
15. Cao, Z.-Q., Wang, Z., & Leng, P. (2019). Aberrant N-cadherin expression in cancer. *Biomedicine & Pharmacotherapy*, 118, 109320. <https://doi.org/10.1016/j.biopha.2019.109320>
16. Carneiro, B. A., & El-Deiry, W. S. (2020). Targeting apoptosis in cancer therapy. *Nature Reviews Clinical Oncology*, 17(7), 395–417. <https://doi.org/10.1038/s41571-020-0341-y>
17. Casas, E., Kim, J., Bendesky, A., Ohno-Machado, L., Wolfe, C. J., & Yang, J. (2011). Snail2 is an Essential Mediator of Twist1-Induced Epithelial Mesenchymal Transition and Metastasis. *Cancer Research*, 71(1), 245–254. <https://doi.org/10.1158/0008-5472.CAN-10-2330>
18. Castaño, J. P., Martínez-Fuentes, A. J., Gutiérrez-Pascual, E., Vaudry, H., Tena-Sempere, M., & Malagón, M. M. (2009). Intracellular signaling pathways activated by kisspeptins through GPR54: Do multiple signals underlie function diversity? *Peptides*, 30(1), 10–15. <https://doi.org/10.1016/j.peptides.2008.07.025>
19. Castro-Piedras, I., Vartak, D., Sharma, M., Pandey, S., Casas, L., Molehin, D., Rasha, F., Fokar, M., Nichols, J., Almodovar, S., Rahman, R. L., & Pruitt, K. (2020). Identification of Novel MeCP2 Cancer-Associated Target Genes and Post-Translational Modifications. *Frontiers in Oncology*, 10. <https://doi.org/10.3389/fonc.2020.576362>

20. Cho, S.-G., Yi, Z., Pang, X., Yi, T., Wang, Y., Luo, J., Wu, Z., Li, D., & Liu, M. (2009). Kisspeptin-10, a KISS1-Derived Decapeptide, Inhibits Tumor Angiogenesis by Suppressing Sp1-Mediated VEGF Expression and FAK/Rho GTPase Activation. *Cancer Research*, 69(17), 7062–7070. <https://doi.org/10.1158/0008-5472.CAN-09-0476>
21. Ciaramella, V., Della Corte, C. M., Ciardiello, F., & Morgillo, F. (2018). Kisspeptin and Cancer: Molecular Interaction, Biological Functions, and Future Perspectives. *Frontiers in Endocrinology*, 9. <https://doi.org/10.3389/fendo.2018.00115>
22. Cvetković, D., Babwah, A. V., & Bhattacharya, M. (2013a). Kisspeptin/KISS1R System in Breast Cancer. *Journal of Cancer*, 4(8), 653–661. <https://doi.org/10.7150/jca.7626>
23. Cvetković, D., Babwah, A. V., & Bhattacharya, M. (2013b). Kisspeptin/KISS1R system in breast cancer. In *Journal of Cancer* (Vol. 4, Number 8, pp. 653–661). <https://doi.org/10.7150/jca.7626>
24. Dashti, S., Taheri, M., & Ghafouri-Fard, S. (2020). An in-silico method leads to recognition of hub genes and crucial pathways in survival of patients with breast cancer. *Scientific Reports*, 10(1), 18770. <https://doi.org/10.1038/s41598-020-76024-2>
25. Davis, M. (2016). Glioblastoma: Overview of Disease and Treatment. *Clinical Journal of Oncology Nursing*, 20(5), S2–S8. <https://doi.org/10.1188/16.CJON.S1.2-8>
26. de Roux, N., Genin, E., Carel, J.-C., Matsuda, F., Chaussain, J.-L., & Milgrom, E. (2003). Hypogonadotropic hypogonadism due to loss of function of the KiSS1-derived peptide receptor GPR54. *Proceedings of the National Academy of Sciences*, 100(19), 10972–10976. <https://doi.org/10.1073/pnas.1834399100>
27. De Vleeschouwer, S. (Ed.). (2017). *Glioblastoma*. Codon Publications. <https://doi.org/10.15586/codon.glioblastoma.2017>
28. De Wever, O., Pauwels, P., De Craene, B., Sabbah, M., Emami, S., Redeuilh, G., Gespach, C., Bracke, M., & Berx, G. (2008). Molecular and pathological signatures of epithelial–mesenchymal transitions at the cancer invasion front. *Histochemistry and Cell Biology*, 130(3), 481. <https://doi.org/10.1007/s00418-008-0464-1>
29. DeCordova, S., Shastri, A., Tsolaki, A. G., Yasmin, H., Klein, L., Singh, S. K., & Kishore, U. (2020). Molecular Heterogeneity and Immunosuppressive Microenvironment in Glioblastoma. *Frontiers in Immunology*, 11. <https://doi.org/10.3389/fimmu.2020.01402>

30. Ding, X.-M. (2014). MicroRNAs: regulators of cancer metastasis and epithelial-mesenchymal transition (EMT). *Chinese Journal of Cancer*, 33(3), 140–147.
<https://doi.org/10.5732/cjc.013.10094>
31. Drápela, S., Bouchal, J., Jolly, M. K., Culig, Z., & Souček, K. (2020). ZEB1: A Critical Regulator of Cell Plasticity, DNA Damage Response, and Therapy Resistance. *Frontiers in Molecular Biosciences*, 7. <https://doi.org/10.3389/fmolb.2020.00036>
32. Dratwa, M., Wysoczańska, B., Łacina, P., Kubik, T., & Bogunia-Kubik, K. (2020). TERT—Regulation and Roles in Cancer Formation. *Frontiers in Immunology*, 11.
<https://doi.org/10.3389/fimmu.2020.589929>
33. Duan, H., Ding, X., & Luo, H. (2022). KISS-1, Mediated by Promoter Methylation, Suppresses Esophageal Squamous Cell Carcinoma Metastasis via MMP2/9/MAPK Axis. *Digestive Diseases and Sciences*, 67(10), 4780–4796. <https://doi.org/10.1007/s10620-021-07335-1>
34. Falco, J., Agosti, A., Vetrano, I. G., Bizzi, A., Restelli, F., Broggi, M., Schiariti, M., Dimeco, F., Ferroli, P., Ciarletta, P., & Acerbi, F. (2021). In silico mathematical modelling for glioblastoma: A critical review and a patient-specific case. *Journal of Clinical Medicine*, 10(10). <https://doi.org/10.3390/jcm10102169>
35. Filteau, M., Diss, G., Torres-Quiroz, F., Dubé, A. K., Schraffl, A., Bachmann, V. A., Gagnon-Arsenault, I., Chrétien, A.-È., Steunou, A.-L., Dionne, U., Côté, J., Bisson, N., Stefan, E., & Landry, C. R. (2015). Systematic identification of signal integration by protein kinase A. *Proceedings of the National Academy of Sciences*, 112(14), 4501–4506.
<https://doi.org/10.1073/pnas.1409938112>
36. Franjić, S. (2023). Ovarian Cancer is the Deadliest of all Gynecological Tumors. *Mathews Journal of Gynecology & Obstetrics*, 7(1). <https://doi.org/10.30654/MJGO.10022>
37. Fultang, N., Chakraborty, M., & Peethambaran, B. (2021). Regulation of cancer stem cells in triple negative breast cancer. *Cancer Drug Resistance*. <https://doi.org/10.20517/cdr.2020.106>
38. Gan, D.-M., Zhang, P.-P., Zhang, J.-P., Ding, S.-X., Fang, J., & Liu, Y. (2021). KISS1/KISS1R mediates Sertoli cell apoptosis via the PI3K/AKT signalling pathway in a high glucose environment. *Molecular Medicine Reports*, 23(6), 477.
<https://doi.org/10.3892/mmr.2021.12116>
39. Golzar, F., & Javanmard, S. (2015). The Effects of kisspeptin-10 on Migration and Proliferation of Endothelial Cell. *Advanced Biomedical Research*, 4(1), 41.
<https://doi.org/10.4103/2277-9175.151250>

40. Gottsch, M. L., Clifton, D. K., & Steiner, R. A. (2009). From KISS1 to kisspeptins: An historical perspective and suggested nomenclature. *Peptides*, 30(1), 4–9. <https://doi.org/10.1016/j.peptides.2008.06.016>
41. Grech, N., Dalli, T., Mizzi, S., Meilak, L., Calleja, N., & Zrinzo, A. (2020). Rising Incidence of Glioblastoma Multiforme in a Well-Defined Population. *Cureus*. <https://doi.org/10.7759/cureus.8195>
42. Guan, X. (2015). Cancer metastases: challenges and opportunities. *Acta Pharmaceutica Sinica B*, 5(5), 402–418. <https://doi.org/10.1016/j.apsb.2015.07.005>
43. Guertin, D. A., & Wellen, K. E. (2023). Acetyl-CoA metabolism in cancer. *Nature Reviews Cancer*. <https://doi.org/10.1038/s41568-022-00543-5>
44. Guo, C., Wu, G., & Liu, T. (2025). Kisspeptin 10 Inhibited the Proliferation, Migration, and Stemness of Esophageal Cancer Cells via Regulating the SIX1/Wnt/ β -Catetin Signaling. *Journal of Biochemical and Molecular Toxicology*, 39(4). <https://doi.org/10.1002/jbt.70244>
45. Guo, X., Liu, Z., Li, X., Zhou, B., & Chen, J. (2026). Metabolic vulnerabilities in ovarian cancer decoding the nexus between nutrient adaptation and therapy resistance. *Journal of Advanced Research*. <https://doi.org/10.1016/j.jare.2026.01.047>
46. Guo, Z., Zhu, Z., Lin, X., Wang, S., Wen, Y., Wang, L., Zhi, L., & Zhou, J. (2024). Tumor microenvironment and immunotherapy for triple-negative breast cancer. *Biomarker Research*, 12(1), 166. <https://doi.org/10.1186/s40364-024-00714-6>
47. Hanahan, D., & Weinberg, R. A. (2011). Hallmarks of Cancer: The Next Generation. *Cell*, 144(5), 646–674. <https://doi.org/10.1016/j.cell.2011.02.013>
48. Harihar, S., & Welch, D. R. (2023). KISS1 metastasis suppressor in tumor dormancy: a potential therapeutic target for metastatic cancers? *Cancer and Metastasis Reviews*, 42(1), 183–196. <https://doi.org/10.1007/s10555-023-10090-6>
49. Hassn Mesrati, M., Syafruddin, S. E., Mohtar, M. A., & Syahir, A. (2021). CD44: A Multifunctional Mediator of Cancer Progression. *Biomolecules*, 11(12), 1850. <https://doi.org/10.3390/biom11121850>
50. He, Y., Zhu, Q., Chen, M., Huang, Q., Wang, W., Li, Q., Huang, Y., & Di, W. (2016). The changing 50% inhibitory concentration (IC50) of cisplatin: a pilot study on the artifacts of the MTT assay and the precise measurement of density-dependent chemoresistance in ovarian cancer. *Oncotarget*, 7(43), 70803–70821. <https://doi.org/10.18632/oncotarget.12223>

51. Hsu, P.-C., Tsai, C.-C., Lin, Y.-H., & Kuo, C.-Y. (2025). Therapeutic Targeting of Apoptosis, Autophagic Cell Death, Necroptosis, Pyroptosis, and Ferroptosis Pathways in Oral Squamous Cell Carcinoma: Molecular Mechanisms and Potential Strategies. *Biomedicines*, 13(7), 1745. <https://doi.org/10.3390/biomedicines13071745>
52. Hu, K.-L., Chang, H.-M., Zhao, H.-C., Yu, Y., Li, R., & Qiao, J. (2019). Potential roles for the kisspeptin/kisspeptin receptor system in implantation and placentation. *Human Reproduction Update*, 25(3), 326–343. <https://doi.org/10.1093/humupd/dmy046>
53. Huang, Y., Hong, W., & Wei, X. (2022). The molecular mechanisms and therapeutic strategies of EMT in tumor progression and metastasis. *Journal of Hematology & Oncology*, 15(1), 129. <https://doi.org/10.1186/s13045-022-01347-8>
54. Hussen, B. M., Hidayat, H. J., Salihi, A., Sabir, D. K., Taheri, M., & Ghafouri-Fard, S. (2021). MicroRNA: A signature for cancer progression. *Biomedicine & Pharmacotherapy*, 138, 111528. <https://doi.org/10.1016/j.biopha.2021.111528>
55. Ibáñez de Opakua, A., Merino, N., Villate, M., Cordeiro, T. N., Ormaza, G., Sánchez-Carbayo, M., Diercks, T., Bernadó, P., & Blanco, F. J. (2017). The metastasis suppressor KISS1 is an intrinsically disordered protein slightly more extended than a random coil. *PLOS ONE*, 12(2), e0172507. <https://doi.org/10.1371/journal.pone.0172507>
56. Imran, S. A. M., Yazid, M. D., Idrus, R. B. H., Maarof, M., Nordin, A., Razali, R. A., & Lokanathan, Y. (2021). Is There an Interconnection between Epithelial–Mesenchymal Transition (EMT) and Telomere Shortening in Aging? *International Journal of Molecular Sciences*, 22(8), 3888. <https://doi.org/10.3390/ijms22083888>
57. Inda, M. del M., Bonavia, R., & Seoane, J. (2014). Glioblastoma multiforme: A look inside its heterogeneous nature. In *Cancers* (Vol. 6, Number 1, pp. 226–239). <https://doi.org/10.3390/cancers6010226>
58. Iseki, Y., Shibutani, M., Maeda, K., Nagahara, H., Ikeya, T., & Hirakawa, K. (2017). Significance of E-cadherin and CD44 expression in patients with unresectable metastatic colorectal cancer. *Oncology Letters*, 14(1), 1025–1034. <https://doi.org/10.3892/ol.2017.6269>
59. Iseki, Y., Shibutani, M., Maeda, K., Nagahara, H., Ikeya, T., & Hirakawa, K. (2017). Significance of E-cadherin and CD44 expression in patients with unresectable metastatic colorectal cancer. *Oncology Letters*, 14(1), 1025–1034. <https://doi.org/10.3892/ol.2017.6269>
60. IWADATE, Y. (2016). Epithelial-mesenchymal transition in glioblastoma progression. *Oncology Letters*, 11(3), 1615–1620. <https://doi.org/10.3892/ol.2016.4113>

61. Jabeen, S., Zahid Qureshi, M., Javed, Z., Javed Iqbal, M., Ismail, M., & Ahmad Farooqi, A. (2016). Kisspeptin Mediated Signaling in Cancer. *Current Topics in Medicinal Chemistry*, 16(22), 2471–2476. <https://doi.org/10.2174/1568026616666160212123309>
62. Ji, K., Ye, L., Mason, M. D., & Jiang, W. G. (2013). The Kiss-1/Kiss-1R complex as a negative regulator of cell motility and cancer metastasis (Review). *International Journal of Molecular Medicine*, 32(4), 747–754. <https://doi.org/10.3892/ijmm.2013.1472>
63. Jiang, Y., Berk, M., Singh, L. S., Tan, H., Yin, L., Powell, C. T., & Xu, Y. (2005). KiSS1 suppresses metastasis in human ovarian cancer via inhibition of protein kinase C alpha. *Clinical and Experimental Metastasis*, 22(5), 369–376. <https://doi.org/10.1007/s10585-005-8186-4>
64. Jones, P. L., Jan Veenstra, G. C., Wade, P. A., Vermaak, D., Kass, S. U., Landsberger, N., Strouboulis, J., & Wolffe, A. P. (1998). Methylated DNA and MeCP2 recruit histone deacetylase to repress transcription. <http://genetics.nature.com>
65. Jørgensen, C. L. T., Forsare, C., Bendahl, P.-O., Falck, A.-K., Fernö, M., Lövgren, K., Aaltonen, K., & Rydén, L. (2020). Expression of epithelial-mesenchymal transition-related markers and phenotypes during breast cancer progression. *Breast Cancer Research and Treatment*, 181(2), 369–381. <https://doi.org/10.1007/s10549-020-05627-0>
66. Kallergi, G., Papadaki, M. A., Politaki, E., Mavroudis, D., Georgoulas, V., & Agelaki, S. (2011). Epithelial to mesenchymal transition markers expressed in circulating tumour cells of early and metastatic breast cancer patients. *Breast Cancer Research*, 13(3), R59. <https://doi.org/10.1186/bcr2896>
67. Kciuk, M., Gielecińska, A., Mujwar, S., Kołat, D., Kałuzińska-Kołat, Ż., Celik, I., & Kontek, R. (2023). Doxorubicin—An Agent with Multiple Mechanisms of Anticancer Activity. *Cells*, 12(4), 659. <https://doi.org/10.3390/cells12040659>
68. Kepuladze, S., Burkadze, G., & Kokhraidze, I. (2024). Epithelial-Mesenchymal Transition Indexes in Triple-Negative Breast Cancer Progression and Metastases. *Cureus*. <https://doi.org/10.7759/cureus.68761>
69. Kokura, K., Kaul, S. C., Wadhwa, R., Nomura, T., Khan, M. M., Shinagawa, T., Yasukawa, T., Colmenares, C., & Ishii, S. (2001). The Ski Protein Family Is Required for MeCP2-mediated Transcriptional Repression. *Journal of Biological Chemistry*, 276(36), 34115–34121. <https://doi.org/10.1074/jbc.M105747200>

70. Le Bras, G. F., Taubenslag, K. J., & Andl, C. D. (2012). The regulation of cell-cell adhesion during epithelial-mesenchymal transition, motility and tumor progression. *Cell Adhesion & Migration*, 6(4), 365–373. <https://doi.org/10.4161/cam.21326>
71. Lee, Y.-L., Lin, K.-L., Wu, B.-N., Chuang, S.-M., Wu, W.-J., Lee, Y.-C., Ho, W.-T., & Juan, Y.-S. (2018). Epigallocatechin-3-gallate alleviates bladder overactivity in a rat model with metabolic syndrome and ovarian hormone deficiency through mitochondria apoptosis pathways. *Scientific Reports*, 8(1), 5358. <https://doi.org/10.1038/s41598-018-23800-w>
72. Li, F., Tian, J., Zhang, L., He, H., & Song, D. (2024). A multi-omics approach to reveal critical mechanisms of activator protein 1 (AP-1). *Biomedicine & Pharmacotherapy*, 178, 117225. <https://doi.org/10.1016/j.biopha.2024.117225>
73. Li, S., Zhang, J., Wang, Y., & Wan, X. (2010). The role of microRNAs in ovarian cancer initiation and progression. *Journal of Cellular and Molecular Medicine*, 14(9), 2240–2249. <https://doi.org/10.1111/j.1582-4934.2010.01058.x>
74. Li, X., Sun, X., & Carmeliet, P. (2019). Hallmarks of Endothelial Cell Metabolism in Health and Disease. *Cell Metabolism*, 30(3), 414–433. <https://doi.org/10.1016/j.cmet.2019.08.011>
75. Liska, O., Bohár, B., Hidas, A., Korcsmáros, T., Papp, B., Fazekas, D., & Ari, E. (2022). TFLink: an integrated gateway to access transcription factor–target gene interactions for multiple species. *Database*, 2022. <https://doi.org/10.1093/database/baac083>
76. Liu, H., Xia, J., Wang, T., Li, W., Song, Y., & Tan, G. (2019). Differentiation of human glioblastoma U87 cells into cholinergic neuron. *Neuroscience Letters*, 704, 1–7. <https://doi.org/10.1016/j.neulet.2019.03.049>
77. Liu, R., Shi, P., Wang, Z., Yuan, C., & Cui, H. (2021). Molecular Mechanisms of MYCN Dysregulation in Cancers. *Frontiers in Oncology*, 10. <https://doi.org/10.3389/fonc.2020.625332>
78. Liu, Y., He, J., Chen, J., Chen, T., Li, W., Yang, Z., & Zeng, F. (2025). Programmed cell death in triple-negative breast cancer. *Cellular & Molecular Biology Letters*, 30(1), 111. <https://doi.org/10.1186/s11658-025-00789-5>
79. Lodrini, M., Oehme, I., Schroeder, C., Milde, T., Schier, M. C., Kopp-Schneider, A., Schulte, J. H., Fischer, M., De Preter, K., Pattyn, F., Castoldi, M., Muckenthaler, M. U., Kulozik, A. E., Westermann, F., Witt, O., & Deubzer, H. E. (2013). MYCN and HDAC2 cooperate to repress miR-183 signaling in neuroblastoma. *Nucleic Acids Research*, 41(12), 6018–6033. <https://doi.org/10.1093/nar/gkt346>

80. Loh, C.-Y., Chai, J., Tang, T., Wong, W., Sethi, G., Shanmugam, M., Chong, P., & Looi, C. (2019). The E-Cadherin and N-Cadherin Switch in Epithelial-to-Mesenchymal Transition: Signaling, Therapeutic Implications, and Challenges. *Cells*, 8(10), 1118. <https://doi.org/10.3390/cells8101118>
81. López-Reig, R., & López-Guerrero, J. A. (2020). The hallmarks of ovarian cancer: proliferation and cell growth. *European Journal of Cancer Supplements*, 15, 27–37. <https://doi.org/10.1016/j.ejcsup.2019.12.001>
82. Loret, N., Denys, H., Tummers, P., & Berx, G. (2019). The Role of Epithelial-to-Mesenchymal Plasticity in Ovarian Cancer Progression and Therapy Resistance. *Cancers*, 11(6), 838. <https://doi.org/10.3390/cancers11060838>
83. Łukasiewicz, S., Czezelewski, M., Forma, A., Baj, J., Sitarz, R., & Stanisławek, A. (2021). Breast Cancer—Epidemiology, Risk Factors, Classification, Prognostic Markers, and Current Treatment Strategies—An Updated Review. *Cancers*, 13(17), 4287. <https://doi.org/10.3390/cancers13174287>
84. Luo, D., & Ge, W. (2020). MeCP2 promotes colorectal cancer metastasis by modulating zeb1 transcription. *Cancers*, 12(3). <https://doi.org/10.3390/cancers12030758>
85. Ly, T., Harihar, S., & Welch, D. R. (2020). KISS1 in metastatic cancer research and treatment: potential and paradoxes. *Cancer and Metastasis Reviews*, 39(3), 739–754. <https://doi.org/10.1007/s10555-020-09868-9>
86. Maqsood, Q., Khan, M. U., Fatima, T., Khalid, S., & Malik, Z. I. (2025). Recent Insights Into Breast Cancer: Molecular Pathways, Epigenetic Regulation, and Emerging Targeted Therapies. *Breast Cancer: Basic and Clinical Research*, 19. <https://doi.org/10.1177/11782234251355663>
87. Mead, E. J., Maguire, J. J., Kuc, R. E., & Davenport, A. P. (2007a). Kisspeptins: a multifunctional peptide system with a role in reproduction, cancer and the cardiovascular system. *British Journal of Pharmacology*, 151(8), 1143–1153. <https://doi.org/10.1038/sj.bjp.0707295>
88. Mead, E. J., Maguire, J. J., Kuc, R. E., & Davenport, A. P. (2007b). Kisspeptins: a multifunctional peptide system with a role in reproduction, cancer and the cardiovascular system. *British Journal of Pharmacology*, 151(8), 1143–1153. <https://doi.org/10.1038/sj.bjp.0707295>
89. Mitra, A. K. (2016). Ovarian Cancer Metastasis: A Unique Mechanism of Dissemination. In *Tumor Metastasis*. InTech. <https://doi.org/10.5772/64700>

90. Motti, M. L., & Meccariello, R. (2019). Minireview: The Epigenetic Modulation of KISS1 in Reproduction and Cancer. *International Journal of Environmental Research and Public Health*, 16(14), 2607. <https://doi.org/10.3390/ijerph16142607>
91. Moufarrij, S., & O’Cearbhaill, R. E. (2023). Novel Therapeutics in Ovarian Cancer: Expanding the Toolbox. *Current Oncology*, 31(1), 97–114. <https://doi.org/10.3390/curroncol31010007>
92. Mustafa, M., Ahmad, R., Tantry, I. Q., Ahmad, W., Siddiqui, S., Alam, M., Abbas, K., Moinuddin, Hassan, Md. I., Habib, S., & Islam, S. (2024). Apoptosis: A Comprehensive Overview of Signaling Pathways, Morphological Changes, and Physiological Significance and Therapeutic Implications. *Cells*, 13(22), 1838. <https://doi.org/10.3390/cells13221838>
93. Nameki, R., Chang, H., Reddy, J., Corona, R. I., & Lawrenson, K. (2021). Transcription factors in epithelial ovarian cancer: histotype-specific drivers and novel therapeutic targets. *Pharmacology & Therapeutics*, 220, 107722. <https://doi.org/10.1016/j.pharmthera.2020.107722>
94. Pan, G., Liu, Y., Shang, L., Zhou, F., & Yang, S. (2021). EMT-associated microRNAs and their roles in cancer stemness and drug resistance. *Cancer Communications*, 41(3), 199–217. <https://doi.org/10.1002/cac2.12138>
95. Pandey, S., & Pruitt, K. (n.d.). Functional assessment of MeCP2 in Rett syndrome and cancers of breast, colon 1 and prostate. In *Biochem. Cell Biol.* Downloaded from www.nrcresearchpress.com by. Retrieved www.nrcresearchpress.com
96. Patel, P. S., Matson, J. P., Ran, X., Stanzione, M., Kawale, A. S., Wang, M., Saxena, S., Sander, C., Curtis, J., Hopkins, J. L., Wong, E., Corcoran, R. B., Haber, D. A., Dyson, N. J., Maheswaran, S., & Zou, L. (2026). ATR Safeguards Epithelial-to-Mesenchymal Transition by Countering R-loops and Enabling Transcription Reprogramming. *Journal of Clinical Investigation*. <https://doi.org/10.1172/JCI192225>
97. Pearson, J. R. D., & Regad, T. (2017). Targeting cellular pathways in glioblastoma multiforme. In *Signal Transduction and Targeted Therapy (Vol. 2)*. Springer Nature. <https://doi.org/10.1038/sigtrans.2017.40>
98. Phi, L. T. H., Sari, I. N., Yang, Y.-G., Lee, S.-H., Jun, N., Kim, K. S., Lee, Y. K., & Kwon, H. Y. (2018). Cancer Stem Cells (CSCs) in Drug Resistance and their Therapeutic Implications in Cancer Treatment. *Stem Cells International*, 2018, 1–16. <https://doi.org/10.1155/2018/5416923>

99. Pistritto, G., Trisciuglio, D., Ceci, C., Garufi, A., & D'Orazi, G. (2016). Apoptosis as anticancer mechanism: function and dysfunction of its modulators and targeted therapeutic strategies. *Aging*, 8(4), 603–619. <https://doi.org/10.18632/aging.100934>
100. Ponta, H., Sherman, L., & Herrlich, P. A. (2003). CD44: From adhesion molecules to signalling regulators. *Nature Reviews Molecular Cell Biology*, 4(1), 33–45. <https://doi.org/10.1038/nrm1004>
101. Pouyan, A., Ghorbanlo, M., Eslami, M., Jahanshahi, M., Ziaei, E., Salami, A., Mokhtari, K., Shahpasand, K., Farahani, N., Meybodi, T. E., Entezari, M., Taheriazam, A., Hushmandi, K., & Hashemi, M. (2025). Glioblastoma multiforme: insights into pathogenesis, key signaling pathways, and therapeutic strategies. *Molecular Cancer*, 24(1), 58. <https://doi.org/10.1186/s12943-025-02267-0>
102. Prabhu, V. V., Sakthive, K. M., & Guruvayoorappan, C. (2013). Kisspeptins (KiSS-1): Essential players in suppressing tumor metastasis. In *Asian Pacific Journal of Cancer Prevention* (Vol. 14, Issue 11, pp. 6215–6220). Asian Pacific Organization for Cancer Prevention. <https://doi.org/10.7314/APJCP.2013.14.11.6215>
103. Primeaux, M., Gowrikumar, S., & Dhawan, P. (2022). Role of CD44 isoforms in epithelial-mesenchymal plasticity and metastasis. *Clinical & Experimental Metastasis*, 39(3), 391–406. <https://doi.org/10.1007/s10585-022-10146-x>
104. Pu, M., Chen, J., Tao, Z., Miao, L., Qi, X., Wang, Y., & Ren, J. (2019). Regulatory network of miRNA on its target: coordination between transcriptional and post-transcriptional regulation of gene expression. *Cellular and Molecular Life Sciences*, 76(3), 441–451. <https://doi.org/10.1007/s00018-018-2940-7>
105. Ramaesh, T., Logie, J. J., Roseweir, A. K., Millar, R. P., Walker, B. R., Hadoke, P. W. F., & Reynolds, R. M. (2010). Kisspeptin-10 Inhibits Angiogenesis in Human Placental Vessels ex Vivo and Endothelial Cells in Vitro. *Endocrinology*, 151(12), 5927–5934. <https://doi.org/10.1210/en.2010-0565>
106. Ramirez Moreno, M., Stempor, P. A., & Bulgakova, N. A. (2021). Interactions and Feedbacks in E-Cadherin Transcriptional Regulation. *Frontiers in Cell and Developmental Biology*, 9. <https://doi.org/10.3389/fcell.2021.701175>
107. Rather, M. A., Basha, S. H., Bhat, I. A., Sharma, N., Nandanpawar, P., Badhe, M., P, G. B., Chaudhari, A., Sundaray, J. K., & Sharma, R. (2017a). Characterization, molecular docking, dynamics simulation and metadynamics of kisspeptin receptor with kisspeptin.

International Journal of Biological Macromolecules, 101, 241–253.

<https://doi.org/10.1016/j.ijbiomac.2017.03.102>

108. Rather, M. A., Basha, S. H., Bhat, I. A., Sharma, N., Nandanpawar, P., Badhe, M., P, G.-B., Chaudhari, A., Sundaray, J. K., & Sharma, R. (2017b). Characterization, molecular docking, dynamics simulation and metadynamics of kisspeptin receptor with kisspeptin. *International Journal of Biological Macromolecules*, 101, 241–253.
<https://doi.org/10.1016/j.ijbiomac.2017.03.102>
109. Raza, S. M., Lang, F. F., Aggarwal, B. B., Fuller, G. N., Wildrick, D. M., & Sawaya, R. (n.d.). LITERATURE REVIEW NECROSIS AND GLIOBLASTOMA: A FRIEND OR A FOE? A REVIEW AND A HYPOTHESIS.
<https://doi.org/10.1227/01.NEU.0000017462.65730.06>
110. Rios Garcia, M., Steinbauer, B., Srivastava, K., Singhal, M., Mattijssen, F., Maida, A., Christian, S., Hess-Stumpp, H., Augustin, H. G., Müller-Decker, K., Nawroth, P. P., Herzig, S., & Berriel Diaz, M. (2017). Acetyl-CoA Carboxylase 1-Dependent Protein Acetylation Controls Breast Cancer Metastasis and Recurrence. *Cell Metabolism*, 26(6), 842-855.e5. <https://doi.org/10.1016/j.cmet.2017.09.018>
111. Rubtsova, S. N., Zhitnyak, I. Y., & Gloushankova, N. A. (2022). Dual role of E-cadherin in cancer cells. *Tissue Barriers*, 10(4).
<https://doi.org/10.1080/21688370.2021.2005420>
112. Scheiber, M. N., Watson, P. M., Rumboldt, T., Stanley, C., Wilson, R. C., Findlay, V. J., Anderson, P. E., & Watson, D. K. (2014). FLI1 Expression is Correlated with Breast Cancer Cellular Growth, Migration, and Invasion and Altered Gene Expression. *Neoplasia*, 16(10), 801–813. <https://doi.org/10.1016/j.neo.2014.08.007>
113. Scheiber, M. N., Watson, P. M., Rumboldt, T., Stanley, C., Wilson, R. C., Findlay, V. J., Anderson, P. E., & Watson, D. K. (2014). FLI1 Expression is Correlated with Breast Cancer Cellular Growth, Migration, and Invasion and Altered Gene Expression. *Neoplasia*, 16(10), 801–813. <https://doi.org/10.1016/j.neo.2014.08.007>
114. Schweiger, M. W., & Tannous, B. A. (2020). Small but Fierce: Tracking the Role of Extracellular Vesicles in Glioblastoma Progression and Therapeutic Resistance. In *Advanced Biosystems* (Vol. 4, Number 12). Wiley-VCH Verlag. <https://doi.org/10.1002/adbi.202000035>
115. Sedeta, E. T., Jobre, B., & Avezbakiyev, B. (2023). Breast cancer: Global patterns of incidence, mortality, and trends. *Journal of Clinical Oncology*, 41(16_suppl), 10528–10528.
https://doi.org/10.1200/JCO.2023.41.16_suppl.10528

116. Seker-Polat, F., Pinarbasi Degirmenci, N., Solaroglu, I., & Bagci-Onder, T. (2022). Tumor Cell Infiltration into the Brain in Glioblastoma: From Mechanisms to Clinical Perspectives. *Cancers*, 14(2), 443. <https://doi.org/10.3390/cancers14020443>
117. Shah, H., Mohan, A. M., Buch, L., Ramachandran, A. V., & Pandya, P. (2025). Exogenous kisspeptin-10 treatment shows pleiotropy via induction of KISS1 expression, metastasis suppression, and promotes apoptosis in triple-negative breast cancer. *Scientific Reports*, 15(1), 35182. <https://doi.org/10.1038/s41598-025-19140-1>
118. Shah, H., Mohan, A. M., Shah, R., Mehta, D., Ramachandran, A. V., & Pandya, P. (2026). Integrated transcriptomics and miRNA-mRNA network analysis reveals Kisspeptin-10 mediated regulation of EMT and apoptosis in glioblastoma. *Computational Biology and Chemistry*, 121, 108826. <https://doi.org/10.1016/j.compbiolchem.2025.108826>
119. Shah, H., Mohan, A. M., Shah, R., Mehta, D., Ramachandran, A. V., & Pandya, P. (2026). Integrated transcriptomics and miRNA-mRNA network analysis reveals Kisspeptin-10 mediated regulation of EMT and apoptosis in glioblastoma. *Computational Biology and Chemistry*, 121, 108826. <https://doi.org/10.1016/j.compbiolchem.2025.108826>
120. Shah, H., Pillai, P., Buch, L., Ramachandran, A. V., & Pandya, P. (2025). Deciphering protein–DNA interactions of KISS1 with transcription factors through molecular docking, molecular dynamics simulations, and gene expression analysis. *Journal of Biomolecular Structure and Dynamics*, 1–17. <https://doi.org/10.1080/07391102.2025.2553344>
121. Shan, W., Jiang, Y., Yu, H., Huang, Q., Liu, L., Guo, X., Li, L., Mi, Q., Zhang, K., & Yang, Z. (2017). Original Article HDAC2 overexpression correlates with aggressive clinicopathological features and DNA-damage response pathway of breast cancer. In *Am J Cancer Res* (Vol. 7, Issue 5). www.ajcr.us/
122. Silverman, D. A., Martinez, V. K., Dougherty, P. M., Myers, J. N., Calin, G. A., & Amit, M. (2021). Cancer-Associated Neurogenesis and Nerve-Cancer Cross-talk. *Cancer Research*, 81(6), 1431–1440. <https://doi.org/10.1158/0008-5472.CAN-20-2793>
123. Singh, R., Letai, A., & Sarosiek, K. (2019). Regulation of apoptosis in health and disease: the balancing act of BCL-2 family proteins. *Nature Reviews Molecular Cell Biology*, 20(3), 175–193. <https://doi.org/10.1038/s41580-018-0089-8>
124. Sipos, D., Raposa, B. L., Freihat, O., Simon, M., Mekis, N., Cornacchione, P., & Kovács, Á. (2025). Glioblastoma: Clinical Presentation, Multidisciplinary Management, and Long-Term Outcomes. *Cancers*, 17(1), 146. <https://doi.org/10.3390/cancers17010146>

125. SONG, G.-Q., & ZHAO, Y. (2015). Kisspeptin-10 inhibits the migration of breast cancer cells by regulating epithelial-mesenchymal transition. *Oncology Reports*, 33(2), 669–674. <https://doi.org/10.3892/or.2014.3619>
126. Song, G.-Q., & Zhao, Y. (2016). Kisspeptin 10 inhibits the Warburg effect in breast cancer through the Smad signaling pathway: both in vitro and in vivo. *American Journal of Translational Research*, 8(1), 188–195.
127. Stathaki, M., Stamatou, M. E., Magioris, G., Simantiris, S., Syrigos, N., Dourakis, S., Koutsilieris, M., & Armakolas, A. (2019). The role of kisspeptin system in cancer biology. *Critical Reviews in Oncology/Hematology*, 142, 130–140. <https://doi.org/10.1016/j.critrevonc.2019.07.015>
128. Steeg, P. S., Ouatas, T., Halverson, D., Palmieri, D., & Salerno, M. (2003). Metastasis Suppressor Genes: Basic Biology and Potential Clinical Use. *Clinical Breast Cancer*, 4(1), 51–62. <https://doi.org/10.3816/CBC.2003.n.012>
129. Stern, J. L., Theodorescu, D., Vogelstein, B., Papadopoulos, N., & Cech, T. R. (2015). Mutation of the TERT promoter, switch to active chromatin, and monoallelic TERT expression in multiple cancers. *Genes & Development*, 29(21), 2219–2224. <https://doi.org/10.1101/gad.269498.115>
130. Sun, J., Ding, J., Shen, Q., Wang, X., Wang, M., Huang, Y., Zhang, X., Zhu, H., Zhang, F., Wu, D., Peng, M., Zhang, Z., Yuan, Y., Li, W., She, Z.-G., Zhang, X.-J., Li, H., Zhang, P., & Huang, Z. (2023). Decreased propionyl-CoA metabolism facilitates metabolic reprogramming and promotes hepatocellular carcinoma. *Journal of Hepatology*, 78(3), 627–642. <https://doi.org/10.1016/j.jhep.2022.11.017>
131. Sung, H., Ferlay, J., Siegel, R. L., Laversanne, M., Soerjomataram, I., Jemal, A., & Bray, F. (2021). Global Cancer Statistics 2020: GLOBOCAN Estimates of Incidence and Mortality Worldwide for 36 Cancers in 185 Countries. *CA: A Cancer Journal for Clinicians*, 71(3), 209–249. <https://doi.org/10.3322/caac.21660>
132. Tan, D. S., Agarwal, R., & Kaye, S. B. (2006). Mechanisms of transcoelomic metastasis in ovarian cancer. *The Lancet Oncology*, 7(11), 925–934. [https://doi.org/10.1016/S1470-2045\(06\)70939-1](https://doi.org/10.1016/S1470-2045(06)70939-1)
133. Tang, Z., Li, C., Kang, B., Gao, G., Li, C., & Zhang, Z. (2017). GEPIA: a web server for cancer and normal gene expression profiling and interactive analyses. *Nucleic Acids Research*, 45(W1), W98–W102. <https://doi.org/10.1093/nar/gkx247>

134. Tng, E. (2015). Kisspeptin signalling and its roles in humans. *Singapore Medical Journal*, 56(12), 649–656. <https://doi.org/10.11622/smedj.2015183>
135. Tomikawa, J., Uenoyama, Y., Ozawa, M., Fukanuma, T., Takase, K., Goto, T., Abe, H., Ieda, N., Minabe, S., Deura, C., Inoue, N., Sanbo, M., Tomita, K., Hirabayashi, M., Tanaka, S., Imamura, T., Okamura, H., Maeda, K. I., & Tsukamura, H. (2012). Epigenetic regulation of Kiss1 gene expression mediating estrogen-positive feedback action in the mouse brain. *Proceedings of the National Academy of Sciences of the United States of America*, 109(20). <https://doi.org/10.1073/pnas.1114245109>
136. Tornesello, M. L., Cerasuolo, A., Starita, N., Amiranda, S., Bonelli, P., Tuccillo, F. M., Buonaguro, F. M., Buonaguro, L., & Tornesello, A. L. (2023). Reactivation of telomerase reverse transcriptase expression in cancer: the role of TERT promoter mutations. *Frontiers in Cell and Developmental Biology*, 11. <https://doi.org/10.3389/fcell.2023.1286683>
137. Ulm, M., Ramesh, A. V, McNamara, K. M., Ponnusamy, S., Sasano, H., & Narayanan, R. (2019). Therapeutic advances in hormone-dependent cancers: focus on prostate, breast and ovarian cancers. *Endocrine Connections*, 8(2), R10–R26. <https://doi.org/10.1530/EC-18-0425>
138. Usman, S., Waseem, N. H., Nguyen, T. K. N., Mohsin, S., Jamal, A., Teh, M.-T., & Waseem, A. (2021). Vimentin Is at the Heart of Epithelial Mesenchymal Transition (EMT) Mediated Metastasis. *Cancers*, 13(19), 4985. <https://doi.org/10.3390/cancers13194985>
139. Vaidya, K. S., & Welch, D. R. (2007). Metastasis Suppressors and Their Roles in Breast Carcinoma. *Journal of Mammary Gland Biology and Neoplasia*, 12(2–3), 175–190. <https://doi.org/10.1007/s10911-007-9049-1>
140. van Zijl, F., Krupitza, G., & Mikulits, W. (2011). Initial steps of metastasis: Cell invasion and endothelial transmigration. *Mutation Research/Reviews in Mutation Research*, 728(1–2), 23–34. <https://doi.org/10.1016/j.mrrev.2011.05.002>
141. Vishnoi, K., Viswakarma, N., Rana, A., & Rana, B. (2020). Transcription Factors in Cancer Development and Therapy. *Cancers*, 12(8), 2296. <https://doi.org/10.3390/cancers12082296>
142. Wang, Y., Jiang, R., Wang, Q., Li, Y., Sun, Z., & Zhao, H. (2021a). Silencing LINC01021 inhibits gastric cancer through upregulation of KISS1 expression by blocking CDK2-dependent phosphorylation of CDX2. *Molecular Therapy Nucleic Acids*, 24, 832–844. <https://doi.org/10.1016/j.omtn.2021.01.025>

143. Wang, Y., Jiang, R., Wang, Q., Li, Y., Sun, Z., & Zhao, H. (2021b). Silencing LINC01021 inhibits gastric cancer through upregulation of KISS1 expression by blocking CDK2-dependent phosphorylation of CDX2. *Molecular Therapy - Nucleic Acids*, 24, 832–844. <https://doi.org/10.1016/j.omtn.2021.01.025>
144. Wierstra, I. (2008). Sp1: Emerging roles—Beyond constitutive activation of TATA-less housekeeping genes. *Biochemical and Biophysical Research Communications*, 372(1), 1–13. <https://doi.org/10.1016/j.bbrc.2008.03.074>
145. WU, D., LIU, L., REN, C., KONG, D., ZHANG, P., JIN, X., WANG, T., & ZHANG, G. (2016). Epithelial-mesenchymal interconversions and the regulatory function of the ZEB family during the development and progression of ovarian cancer. *Oncology Letters*, 11(2), 1463–1468. <https://doi.org/10.3892/ol.2016.4092>
146. Xia, Y., Wang, J., Liu, T.-J., Yung, W. K. A., Hunter, T., & Lu, Z. (2007). c-Jun Downregulation by HDAC3-Dependent Transcriptional Repression Promotes Osmotic Stress-Induced Cell Apoptosis. *Molecular Cell*, 25(2), 219–232. <https://doi.org/10.1016/j.molcel.2007.01.005>
147. Xu, Y., Nijhuis, A., & Keun, H. C. (2022). RNA-binding motif protein 39 (RBM39): An emerging cancer target. *British Journal of Pharmacology*, 179(12), 2795–2812. <https://doi.org/10.1111/bph.15331>
148. Xue, C., Chu, Q., Shi, Q., Zeng, Y., Lu, J., & Li, L. (2025). Wnt signaling pathways in biology and disease: mechanisms and therapeutic advances. *Signal Transduction and Targeted Therapy*, 10(1), 106. <https://doi.org/10.1038/s41392-025-02142-w>
149. Yang, Y., Li, S., Wang, Y., Zhao, Y., & Li, Q. (2022). Protein tyrosine kinase inhibitor resistance in malignant tumors: molecular mechanisms and future perspective. In *Signal Transduction and Targeted Therapy* (Vol. 7, Issue 1). Springer Nature. <https://doi.org/10.1038/s41392-022-01168-8>
150. Yeung, K. T., & Yang, J. (2017). Epithelial–mesenchymal transition in tumor metastasis. *Molecular Oncology*, 11(1), 28–39. <https://doi.org/10.1002/1878-0261.12017>
151. Yoon, H. G., Cheong, J. H., Ryu, J. Il, Won, Y. D., Min, K.-W., & Han, M.-H. (2023). The genes significantly associated with an improved prognosis and long-term survival of glioblastoma. *PLOS ONE*, 18(11), e0295061. <https://doi.org/10.1371/journal.pone.0295061>
152. Yu, H., Xie, M., Liufu, X., Xu, Y., & Chen, L. (2025). Kisspeptin-10 Prevents the Development of Cerebral Aneurysms by Reducing the Expression of Egr-1. *CNS Neuroscience & Therapeutics*, 31(5). <https://doi.org/10.1111/cns.70413>

153. Yu, J., Li, S., Xu, Z., Guo, J., Li, X., Wu, Y., Zheng, J., & Sun, X. (2021). CDX2 inhibits epithelial–mesenchymal transition in colorectal cancer by modulation of Snail expression and β -catenin stabilisation via transactivation of PTEN expression. *British Journal of Cancer*, 124(1), 270–280. <https://doi.org/10.1038/s41416-020-01148-1>
154. Zhang, J., Tian, X.-J., & Xing, J. (2016). Signal Transduction Pathways of EMT Induced by TGF- β , SHH, and WNT and Their Crosstalks. *Journal of Clinical Medicine*, 5(4), 41. <https://doi.org/10.3390/jcm5040041>
155. Zhang, Y., Xu, L., Li, A., & Han, X. (2019). The roles of ZEB1 in tumorigenic progression and epigenetic modifications. In *Biomedicine and Pharmacotherapy* (Vol. 110, pp. 400–408). Elsevier Masson SAS. <https://doi.org/10.1016/j.biopha.2018.11.112>
156. Zhao, H. fu, Wang, J., Shao, W., Wu, C. peng, Chen, Z. ping, To, S. shun T., & Li, W. ping. (2017). Recent advances in the use of PI3K inhibitors for glioblastoma multiforme: Current preclinical and clinical development. In *Molecular Cancer* (Vol. 16, Number 1). BioMed Central Ltd. <https://doi.org/10.1186/s12943-017-0670-3>.