

## REFERENCES

- Abcam. (n.d.). DNA methylation: A guide.
- American Society of Clinical Oncology (ASCO). (2017). Brain Tumor: Statistic. Retrieved from <https://www.cancer.net/cancer-types/brain-tumor/statistic>
- Bhargava, H. D. (2017). What is glioblastoma? Retrieved January 31, 2018, from <https://www.webmd.com/cancer/brain-cancer/what-is-glioblastoma#1>
- Bogdanovi, O., & Veenstra, G. J. C. (2009). DNA methylation and methyl-CpG binding proteins : developmental requirements and function. *Chromosoma*, (118), 549–565. <https://doi.org/10.1007/s00412-009-0221-9>
- Bruce, J. N., & Fusco, D. J. (2018). Ependymoma. Retrieved March 23, 2018, from <https://emedicine.medscape.com/article/277621-overview#showall>
- Bruce, J. N., & Kennedy, B. (2018). Glioblastoma Multiforme. Retrieved March 23, 2018, from <https://emedicine.medscape.com/article/283252-overview#showall>
- Chatterjee, A., Rodger, E. J., & Eccles, M. R. (2017). Epigenetic drivers of tumourigenesis and cancer metastasis. *Seminars in Cancer Biology*. <https://doi.org/10.1016/j.semcan.2017.08.004>
- Cui, T., Chen, Y., Yang, L., Zoller, K., Huber, O., & Petersen, I. (2011). DSC3 expression is regulated by p53 , and methylation of DSC3 DNA is a prognostic marker in human colorectal cancer. *British Journal of Cancer*, (March), 1013–1019. <https://doi.org/10.1038/bjc.2011.28>
- Davis, M. E. (2016). Glioblastoma: Overview of Disease and Treatment. *Clinical Journal of Oncology Nursing*, 20(5), 1–14. <https://doi.org/10.1188/16.CJON.S1.2-8.Glioblastoma>
- Fukushima, T., Katayama, Y., Watanabe, T., Yoshino, A., Ogino, A., Ohta, T., & Komine, C. (2005). Promoter Hypermethylation of Mismatch Repair Gene hMLH1 Predicts the Clinical Response of Malignant Astrocytomas to Nitrosourea. *Clinical Cancer Research*, 11, 1539–1544.
- Genetic Home Reference. (2018). MLH1 gene. Retrieved January 31, 2018, from <https://ghr.nlm.nih.gov/gene/MLH1>
- Gupta, A., & Dwivedi, T. (2017). A simplified overview of World Health Organization classification update of central nervous system tumors 2016. *Journal of Neuroscience in Rural Practice*, 8(4), 629–641. [https://doi.org/10.4103/jnrp.jnrp\\_168\\_17](https://doi.org/10.4103/jnrp.jnrp_168_17)
- Hanif, F., Muzaffar, K., Perveen, K., Malhi, S. M., & Simjee, S. U. (2017). Glioblastoma Multiforme : A Review of its Epidemiology and Pathogenesis through Clinical Presentation and Treatment, 18, 3–9. <https://doi.org/10.22034/APJCP.2017.18.1.3>
- Hykin, S. M., Bi, K., & Mcguire, J. A. (2015). Fixing Formalin : A Method to Recover Genomic-Scale DNA Sequence Data from Formalin-Fixed Museum Specimens Using High-Throughput Sequencing. *PLoS ONE*, 10(10). <https://doi.org/10.1371/journal.pone.0141579>
- Kanamori, M., Kon, H., Nobukuni, T., Nomura, S., Sugano, K., Mashiyama, S., ... Murakami, Y. (2000). Microsatellite instability and the PTEN1 gene mutation in a subset of early onset gliomas carrying germline mutation or promoter methylation of the hMLH1 gene. *Oncogene*, 19, 1564–1571.
- Kanwal, R., & Gupta, S. (2012). Epigenetic modification in cancer. *Clinical Genetic*, 81(4), 303–311. <https://doi.org/10.1111/j.1399-0004.2011.01809.x>Epigenetic
- Kennedy, B., Bruce, J., & Engelhard, H. (2017). Astrocytoma. Retrieved March 23, 2018, from

<https://emedicine.medscape.com/article/283453-overview#a1>

- Kurdyokov, S., & Bullock, M. (2016). DNA Methylation Analysis : Choosing the. *Biology (MDPI)*, 1–21. <https://doi.org/10.3390/biology5010003>
- Louise, D. N., Perry, A., Relfenberger, G., Deimling, A. von, Figarella-Branger, D., Cavenee, W. K., ... Ellison, D. W. (2015). The 2016 WHO Classification of Tumours of the Central Nervous System: A Summary. *Acta Neuropathology*. <https://doi.org/10.1007/s00401-016-1545-1>
- Martin, A., & Scharff, M. D. (2002). AID AND MISMATCH REPAIR IN ANTIBODY DIVERSIFICATION, 2(August). <https://doi.org/10.1038/nri858>
- Robertson, K. (2005). DNA methylation and human disease. *Nature Reviews Genetics*, 6, 597–610. <https://doi.org/10.1038/nrg1655>
- Rodríguez-hernández, I., Garcia, J. L., Santos-briz, A., Hernández-lain, A., González-valero, M., Gómez-moreta, J. A., ... Cruz, J. J. (2013). Integrated Analysis of Mismatch Repair System in Malignant Astrocytomas. *PLoS ONE*, 8(9), 1–10. <https://doi.org/10.1371/journal.pone.0076401>
- Sharma, S., Kelly, T. K., & Jones, P. A. (2010). Epigenetics in cancer. *Carcinogenesis*, 31(1), 27–36. <https://doi.org/10.1093/carcin/bgp220>
- Tollefsbol, T. O. (2010). Epigenetics: The new science of genetics. In *Handbook of Epigenetics* (1st ed., pp. 1–6). Academic Press.
- Uddin, S., & Jarmi, T. (2015). Oligodendroglioma. Retrieved March 23, 2018, from <https://emedicine.medscape.com/article/1156699-overview#showall>
- Weller, M., Wick, W., Aldape, K., Brada, M., Berger, M., Nishikawa, R., ... Stupp, R. (2015). Glioma. *Nature Reviews Disease Primer*, 1. <https://doi.org/10.1038/nrdp.2015.17>
- Wojdacz, T. K., & Dobrovic, A. (2007). Methylation-sensitive high resolution melting (MS-HRM): A new approach for sensitive and high-throughput assessment of methylation. *Nucleic Acids Research*, 35(6). <https://doi.org/10.1093/nar/gkm013>
- Wojdacz, T. K., Dobrovic, A., & Hansen, L. L. (2008). Methylation-sensitive high-resolution melting, 3(12), 1903–1908. <https://doi.org/10.1038/nprot.2008.191>
- Zhang, W., Bauer, M., Croner, R. S., Pelz, O. W., Lodygin, D., Hermeking, H., ... Matzel, K. E. (2007). DNA Stool Test for Colorectal Cancer : Hypermethylation of the Secreted. *Diseases of the Colon & Rectum*, 50, 1618–1627. <https://doi.org/10.1007/s10350-007-0286-6>
- Zhang, Y., Rohde, C., Tierling, S., Jeltsch, A., & Reinhardt, R. (2009). DNA Methylation Analysis by Bisulfite Conversion , Cloning , and Sequencing of Individual Clones. In *DNA Methylation: Methods and Protocols* (Second, Vol. 507, pp. 177–187). Humana Press. <https://doi.org/10.1007/978-1-59745-522-0>