

DAFTAR PUSTAKA

- Amirfallah, A., Kocal, G.C., Unal, O.U., Ellidokuz, H., Oztop, I., Basbinar, Y., 2018. DPYD, TYMS, and MTHFR genes polymorphism frequencies in a series of Turkish colorectal cancer patients. *J. Pers. Med.* 8. doi:10.3390/jpm8040045
- Berg, M., Hagland, H.R., Søreide, K., 2014. Comparison of CpG island methylator phenotype (CIMP) frequency in colon cancer using different probe- And gene-specific scoring alternatives on recommended multi-gene panels. *PLoS One* 9: 1–7. doi:10.1371/journal.pone.0086657
- Braus, M.S., Twelves, C.J., 2009. Capecitabine in colorectal cancer. *Therapy* 6: 239–248. doi:10.2217/14750708.6.2.239
- Ehrlich, M., 2019. DNA hypermethylation in disease: mechanisms and clinical relevance. *Epigenetics* 14: 1141–1163. doi:10.1080/15592294.2019.1638701
- Galamb, O., Kalmár, A., Péterfia, B., Csabai, I., Bodor, A., Ribli, D., et al., 2016. Aberrant DNA methylation of WNT pathway genes in the development and progression of CIMP-negative colorectal cancer. *Epigenetics* 11: 588–602. doi:10.1080/15592294.2016.1190894
- Herman, J.G., Graff, J.R., Myohanen, S., Nelkin, B.D., Baylin, S.B., 1996. Methylation-specific PCR: A novel PCR assay for methylation status of CpG islands 93: 9821–9826.
- Kang, K.J., Min, B.H., Ryu, K.J., Kim, K.M., Chang, D.K., Kim, J.J., et al., 2015. The role of the CpG island methylator phenotype on survival outcome in colon cancer. *Gut Liver* 9: 202–207. doi:10.5009/gnl13352
- Karpinski, P., Ramsey, D., Grzebieniak, Z., Sasiadek, M.M., Blin, N., 2008. The CpG island methylator phenotype correlates with long-range epigenetic silencing in colorectal cancer. *Mol. Cancer Res.* 6: 585–591. doi:10.1158/1541-7786.MCR-07-2158
- Komor, M.A., Bosch, L.J.W., Bounova, G., Bolijn, A.S., Delis-van Diemen, P.M., Rausch, C., et al., 2018. Consensus molecular subtype classification of colorectal adenomas. *J. Pathol.* 246: 266–276. doi:10.1002/path.5129
- Kong, C., Fu, T., 2021. Value of methylation markers in colorectal cancer (Review). *Oncol. Rep.* 46: 1–12. doi:10.3892/or.2021.8128
- M. Carethers, J., H. Jung, B., 2015. Genetics and Genetic Biomarkers in Sporadic Colorectal Cancer. *Physiol. Behav.* 149: 1177–1190. doi:doi:10.1053/j.gastro.2015.06.047

- Mármol, I., Sánchez-de-Diego, C., Dieste, A.P., Cerrada, E., Yoldi, M.J.R., 2017. Colorectal carcinoma: A general overview and future perspectives in colorectal cancer. *Int. J. Mol. Sci.* 18. doi:10.3390/ijms18010197
- Monteil, A., Chemin, J., Bourinet, E., Mennessier, G., Lory, P., Nargeot, J., 2000. Molecular and functional properties of the human $\alpha(1G)$ subunit that forms T-type calcium channels. *J. Biol. Chem.* 275: 6090–6100. doi:10.1074/jbc.275.9.6090
- Nascimento-Gonçalves, E., Mendes, B.A.L., Silva-Reis, R., Faustino-Rocha, A.I., Gama, A., Oliveira, P.A., 2021. Animal models of colorectal cancer: From spontaneous to genetically engineered models and their applications. *Vet. Sci.* 8: 1–29. doi:10.3390/vetsci8040059
- Ogino, S., Kawasaki, T., Kirkner, G.J., Kraft, P., Loda, M., Fuchs, C.S., 2007. Evaluation of markers for CpG Island Methylator Phenotype (CIMP) in colorectal cancer by a large population-based sample. *J. Mol. Diagnostics* 9: 305–314. doi:10.2353/jmoldx.2007.060170
- Otero-Estévez, O., Gallardo-Gomez, M., de la Cadena, M.P., Rodríguez-Berrocal, F.J., Cubiella, J., et al., 2020. Value of serum NEUROG1 methylation for the detection of advanced adenomas and colorectal cancer. *Diagnostics* 10: 1–13. doi:10.3390/diagnostics10070437
- Perše, M., Cerar, A., 2011. Morphological and molecular alterations in 1,2 dimethylhydrazine and azoxymethane-induced colon carcinogenesis in rats. *J. Biomed. Biotechnol.* 2011. doi:10.1155/2011/473964
- Puccini, A., Berger, M.D., Naseem, M., Tokunaga, R., Cao, S., Hanna, D.L., et al., 2018. HHS Public Access 1868: 439–448. doi:10.1016/j.bbcan.2017.09.003.Colorectal
- Quiñones, H.I., Savage, T.K., Battiste, J., Johnson, J.E., 2010. Neurogenin 1 (Neurog1) expression in the ventral neural tube is mediated by a distinct enhancer and preferentially marks ventral interneuron lineages. *Dev. Biol.* 340: 283–292. doi:10.1016/j.ydbio.2010.02.012
- Ragab Ibrahim, F.A.E., Naser Hussein, Z.U., Yousef, A.I., Abd El Moneim, N.A., Hussein, A.M., Ahmed, A.F.M., et al., 2022. Insights on possible interplay between epithelial-mesenchymal transition and T-type voltage-gated calcium channels genes in metastatic breast carcinoma. *Heliyon* 8: 1–20. doi:10.1016/j.heliyon.2022.e10160
- Rhee, Y.Y., Kim, K.J., Kang, G.H., 2017. CpG Island methylator phenotype-high colorectal cancers and their prognostic implications and relationships with the serrated Neoplasia pathway. *Gut Liver* 11: 38–46. doi:10.5009/gnl15535
- Sharaf, L.K., Sharma, M., Chandel, D., Shukla, G., 2018. The prophylactic intervention

of probiotics (*L. acidophilus*, *L. rhamnosus* GG) and celecoxib modulate Bax-mediated apoptosis in 1,2-dimethylhydrazine-induced experimental colon carcinogenesis. *BMC Cancer* 18: 1–14. doi:10.1186/s12885-018-4999-9

Shiovitz, S., 2014. CpG Island Methylator Phenotype is Associated With Response to Adjuvant Irinotecan-Based Therapy for Stage 3 Colon Cancer. *Am. Gastroenterol. Assoc.* 147: 637–645. doi:10.1053/j.gastro.2014.05.009.CpG

Tong, Y., Yang, W., Koeffler, H.P., 2015. Review Mouse Models for Familial Adenomatous Polyposis (FAP) 450–462.

Toyota, M., Ho, C., Ohe-Toyota, M., Baylin, S.B., Issa, J.P., 1999. Inactivation of *CACNA1G*, a T-type calcium channel gene, by aberrant methylation of its 5' CpG island in human tumors. *Cancer Res.* 59: 4535–41.

Walko, P.C.M., 2005. Capecitabine: A review. *Clin. Ther.* 27: 6–8. doi:<https://doi.org/10.1016/j.clinthera.2005.01.005>

Weisenberger, D.J., Levine, A.J., Long, T.I., Buchanan, D.D., Walters, R., Clendenning, M., et al., 2015. Association of the colorectal CpG island methylator phenotype with molecular features, risk factors, and family history. *Cancer Epidemiol. Biomarkers Prev.* 24: 512–519. doi:10.1158/1055-9965.EPI-14-1161

WHO, 2020. Colorectal cancer statistics [WWW Document]. *World Cancer Res. Fund Int.* URL <https://www.wcrf.org/cancer-trends/colorectal-cancer-statistics/>

Yamagishi, H., Kuroda, H., Imai, Y., Hiraishi, H., 2016. Molecular pathogenesis of sporadic colorectal cancers. *Chin. J. Cancer* 35: 1–8. doi:10.1186/s40880-015-0066-y