# CITATION REPORT List of articles citing

Incidence and functional consequences of hMLH1 promoter hypermethylation in colorectal carcinoma

DOI: 10.1073/pnas.95.12.6870 Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6870-5.

Source: https://exaly.com/paper-pdf/29795229/citation-report.pdf

Version: 2024-04-19

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1630	Imprinting and colorectal cancer. <b>1998</b> , 4, 1236-7		6
1629	Loss of imprinting in normal tissue of colorectal cancer patients with microsatellite instability. <b>1998</b> , 4, 1276-80		249
1628	Accumulated clonal genetic alterations in familial and sporadic colorectal carcinomas with widespread instability in microsatellite sequences. <b>1998</b> , 153, 1063-78		166
1627	Biallelic inactivation of hMLH1 by epigenetic gene silencing, a novel mechanism causing human MSI cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 8698	3- <del>7</del> 02 <sup>5</sup>	525
1626	Hypermethylation of the DAP-Kinase CpG Island Is a Common Alteration in B-Cell Malignancies. <b>1999</b> , 93, 4347-4353		282
1625	p15INK4BCpG Island Methylation in Primary Acute Leukemia Is Heterogeneous and Suggests Density as a Critical Factor for Transcriptional Silencing. <b>1999</b> , 94, 2445-2451		198
1624	Hypermethylation of the p16 gene in sporadic T3N0M0 stage colorectal cancers: association with DNA replication error and shorter survival. <b>1999</b> , 57, 149-56		63
1623	Demethylation and expression of methylated plasmid DNA stably transfected into HeLa cells. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 2332-8	20.1	18
1622	Molecular markers of prognosis in colorectal cancer. <b>1999</b> , 91, 1267-9		24
1621	Choice of management strategy for colorectal cancer based on a diagnostic immunohistochemical test for defective mismatch repair. <b>1999</b> , 45, 409-15		156
1620	Mechanisms of inactivation of mismatch repair genes in human colorectal cancer cell lines: the predominant role of hMLH1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 10296-301	11.5	95
1619	Epigenetic phenotypes distinguish microsatellite-stable and -unstable colorectal cancers.  Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 12661-6	11.5	95
1618	Microsatellite instability and 8p allelic imbalance in stage B2 and C colorectal cancers. <b>1999</b> , 91, 1295-3	03	320
1617	Inhibition of DNA methyltransferase stimulates the expression of signal transducer and activator of transcription 1, 2, and 3 genes in colon tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 14007-12	11.5	164
1616	CpG island methylator phenotype in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 8681-6	11.5	1985
1615	MLH1 promoter methylation and gene silencing is the primary cause of microsatellite instability in sporadic endometrial cancers. <b>1999</b> , 8, 661-6		244
1614	Folate and carcinogenesis: evidence, mechanisms, and implications. <b>1999</b> , 10, 66-88		448

1613	Aging, DNA methylation and cancer. <b>1999</b> , 32, 31-43		154
1612	Synergy of demethylation and histone deacetylase inhibition in the re-expression of genes silenced in cancer. <b>1999</b> , 21, 103-7		1643
1611	Cancer epigenetics comes of age. <b>1999</b> , 21, 163-7		1927
1610	A role for methylation of the hMLH1 promoter in loss of hMLH1 expression and drug resistance in ovarian cancer. <b>1999</b> , 18, 2335-41		292
1609	Mouse models for colorectal cancer. <b>1999</b> , 18, 5325-33		93
1608	Somatic frameshift mutations in the MBD4 gene of sporadic colon cancers with mismatch repair deficiency. <b>1999</b> , 18, 8044-7		121
1607	Microsatellite instability in sporadic colorectal cancer is not an independent prognostic factor. <b>1999</b> , 81, 190-3		85
1606	Hypermethylation of tumor suppressor genes in cancer. <b>1999</b> , 9, 359-67		152
1605	A new assay for the analysis of X-chromosome inactivation based on methylation-specific PCR. <b>1999</b> , 104, 49-55		145
1604	Methionine reduces spontaneous and alkylation-induced mutagenesis in Saccharomyces cerevisiae cells deficient in O6-methylguanine-DNA methyltransferase. <b>1999</b> , 430, 99-107		4
1603	The DNA methylation paradox. <b>1999</b> , 15, 34-7		523
1602	Genomic organization and chromosomal localization of the human CUL2 gene and the role of von Hippel-Lindau tumor suppressor-binding protein (CUL2 and VBP1) mutation and loss in renal-cell carcinoma development. <b>1999</b> , 26, 20-28		13
1601	Distinct methylation pattern and microsatellite instability in sporadic gastric cancer. <i>International Journal of Cancer</i> , <b>1999</b> , 83, 309-13	5	127
1600	Mammalian DNA mismatch repair. <b>1999</b> , 33, 533-64		374
1599	Mismatch repair and drug responses in cancer. <b>1999</b> , 2, 295-306		7
1598	Genetic pathways in colorectal and other cancers. <b>1999</b> , 35, 335-51		127
1597	Genetic pathways in colorectal and other cancers. <b>1999</b> , 35, 1986-2002		115
1596	The new biology: histopathology. <b>1999</b> , 354 Suppl 1, SI26-31		10

1595	DNA mismatch binding in human lung tumor cell lines. <b>1999</b> , 26, 15-25		7
1594	Gastric cancers of the microsatellite mutator phenotype display characteristic genetic and clinical features. <b>1999</b> , 116, 1348-57		157
1593	Colorectal cancer: molecules and populations. <b>1999</b> , 91, 916-32		680
1592	In situ detection of the hypermethylation-induced inactivation of the p16 gene as an early event in oncogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1999</b> , 96, 12754-9	11.5	282
1591	Origin of microsatellite instability in gastric cancer. <b>1999</b> , 155, 205-11		124
1590	Genetic instability and the mutator phenotype. Studies in ulcerative colitis. <b>1999</b> , 154, 1621-6		56
1589	hMLH1 promoter hypermethylation in microsatellite instability-positive endometrial carcinoma. Cause or consequence?. <b>1999</b> , 155, 1399-402		13
1588	hMLH1 promoter hypermethylation is an early event in human endometrial tumorigenesis. <b>1999</b> , 155, 1767-72		<b>2</b> 60
1587	A core promoter and a frequent single-nucleotide polymorphism of the mismatch repair gene hMLH1. <b>1999</b> , 256, 488-94		82
1586	DNA methylation analysis using bisulfite treatment and PCR-single-strand conformation polymorphism in colorectal cancer showing microsatellite instability. <b>1999</b> , 262, 671-6		49
1585	Mutator phenotypes conferred by MLH1 overexpression and by heterozygosity for mlh1 mutations. <b>1999</b> , 19, 3177-83		153
1584	The stability of the genome and the genetic instability of tumors. <b>2000</b> , 43, 286-300		5
1583	Bibliography current world literature. <b>2000</b> , 16, B1-55		
1582	The molecular biology of endometrial tumorigenesis: does it have a message?. <b>2000</b> , 19, 310-3		13
1581	Genomic instability and colorectal cancer. <b>2000</b> , 16, 62-7		26
1580	Genomic alterations (LOH, MI) on chromosome 17q21-23 and prognosis of sporadic colorectal cancer. <i>International Journal of Cancer</i> , <b>2000</b> , 89, 1-7	7.5	28
1579	DNA methylation and cancer. <b>2000</b> , 183, 145-54		315
1578	Genomic instability and target gene mutations in colon cancers with different degrees of allelic shifts. <b>2000</b> , 27, 424-429		13

## (2000-2000)

1577	The role of DNA hypermethylation in human neoplasia. <b>2000</b> , 21, 329-33	48
1576	Microsatellite analysis at 10q25-q26 in Sardinian patients with sporadic endometrial carcinoma: identification of specification patterns of genetic alteration. <b>2000</b> , 89, 1773-82	9
1575	Sporadic colorectal adenocarcinomas with high-frequency microsatellite instability. <b>2000</b> , 89, 2025-2037	165
1574	Methylation of the hMLH1 promoter but no hMLH1 mutations in sporadic gastric carcinomas with high-level microsatellite instability. <i>International Journal of Cancer</i> , <b>2000</b> , 87, 200-3	63
1573	Chromatin and cancer: Causes and consequences. <b>2000</b> , 79, 61-68	11
1572	DNA repair mechanisms and acute myeloblastic leukemia. <b>2000</b> , 18, 99-110	9
1571	Methylation of the CDH1 promoter as the second genetic hit in hereditary diffuse gastric cancer. <b>2000</b> , 26, 16-7	369
1570	Genetic instability is associated with histological transformation of follicle center lymphoma. <b>2000</b> , 14, 2142-8	37
1569	Epigenetic inactivation of LKB1 in primary tumors associated with the Peutz-Jeghers syndrome. <b>2000</b> , 19, 164-8	149
1568	DNA methylator and mismatch repair phenotypes are not mutually exclusive in colorectal cancer cell lines. <b>2000</b> , 19, 943-52	16
1567	Microsatellite instability and the PTEN1 gene mutation in a subset of early onset gliomas carrying germline mutation or promoter methylation of the hMLH1 gene. <b>2000</b> , 19, 1564-71	34
1566	Spontaneous development of drug resistance: mismatch repair and p53 defects in resistance to cisplatin in human tumor cells. <b>2000</b> , 19, 3138-45	100
1565	Distinct methylation patterns of two APC gene promoters in normal and cancerous gastric epithelia. <b>2000</b> , 19, 3642-6	148
1564	Transgenerational mutation by radiation. <b>2000</b> , 405, 37	151
1563	Crystal structures of mismatch repair protein MutS and its complex with a substrate DNA. <b>2000</b> , 407, 703-10	538
1562	TGF-beta receptors and DNA repair genes, coupled targets in a pathway of human colon carcinogenesis. <b>2000</b> , 1470, M13-20	25
1561	DNA hypermethylation in tumorigenesis: epigenetics joins genetics. <b>2000</b> , 16, 168-74	1329
1560	Genetic instability and aberrant DNA methylation in chronic hepatitis and cirrhosisA comprehensive study of loss of heterozygosity and microsatellite instability at 39 loci and DNA hypermethylation on 8 CpG islands in microdissected specimens from patients with hepatocellular	211

1559	Extensive molecular screening for hereditary non-polyposis colorectal cancer. 2000, 82, 871-80		65
1558	Identification of CpG islands hypermethylated in tumor and transformed cells by the methylation-sensitive arbitrarily primed polymerase chain reaction. <b>2000</b> , 34, 408-412		2
1557	DNA methylation and gastrointestinal malignancies: functional consequences and clinical implications. <b>2000</b> , 35, 727-34		25
1556	Microsatellite instability in colorectal adenomas: relevance and clinical importance. <b>2000</b> , 15, 189-96		11
1555	DNA Methylation and Breast Cancer. <b>2000</b> , 1, 41-58		1
1554	Reduced MLH1 expression in breast tumors after primary chemotherapy predicts disease-free survival. <i>Journal of Clinical Oncology</i> , <b>2000</b> , 18, 87-93	2.2	87
1553	Prospettive Terapeutiche Future per Il Trattamento Del Cancro Del Colon Retto Avanzato: La Nostra Esperienza Con Oxaliplatino Associato a Fluorofolati in Cronoinfusione. <b>2000</b> , 86, S26-S28		1
1552	Methylation patterns of the E-cadherin 5' CpG island are unstable and reflect the dynamic, heterogeneous loss of E-cadherin expression during metastatic progression. <b>2000</b> , 275, 2727-32		292
1551	Sequence interruptions confer differential stability at microsatellite alleles in mismatch repair-deficient cells. <b>2000</b> , 9, 2707-13		25
1550	Heterozygous DNA mismatch repair gene PMS2-knockout mice are susceptible to intestinal tumor induction with N-methyl-N-nitrosourea. <b>2000</b> , 21, 833-8		15
1549	p53 gene mutation, microsatellite instability and adjuvant chemotherapy: impact on survival of 388 patients with Dukes' C colon carcinoma. <b>2000</b> , 58, 52-9		126
1548	DNA methylation: past, present and future directions. <b>2000</b> , 21, 461-7		476
1547	Microsatellite instability in tumors as a model to study the process of microsatellite mutations. <b>2000</b> , 9, 347-52		25
1546	Chromatin modification and disease. <b>2000</b> , 37, 905-15		13
1545	Distinct genetic profiles in colorectal tumors with or without the CpG island methylator phenotype. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 710-5	11.5	378
1544	Aberrant methylation of gene promoters in cancerconcepts, misconcepts, and promise. <b>2000</b> , 92, 1460	)-1	107
1543	Defective hMSH2/hMLH1 protein expression is seen infrequently in ulcerative colitis associated colorectal cancers. <b>2000</b> , 46, 367-9		33
1542	The role of hypermethylation of the hMLH1 promoter region in HNPCC versus MSI+ sporadic colorectal cancers. <b>2000</b> , 37, 588-92		89

## (2000-2000)

1541	Identification of a second MutL DNA mismatch repair complex (hPMS1 and hMLH1) in human epithelial cells. <b>2000</b> , 275, 15728-32	49
1540	Cytotoxicity and mutagenicity of frameshift-inducing agent ICR191 in mismatch repair-deficient colon cancer cells. <b>2000</b> , 92, 480-5	23
1539	E-Cadherin gene promoter hypermethylation in primary human gastric carcinomas. <b>2000</b> , 92, 569-73	257
1538	Small GTPase Rac1: structure, localization, and expression of the human gene. <b>2000</b> , 277, 741-51	52
1537	Higher risk of mismatch repair-deficient colorectal cancer in alpha(1)-antitrypsin deficiency carriers and cigarette smokers. <b>2000</b> , 71, 639-45	55
1536	Genetic and epigenetic modification of MLH1. <b>2000</b> , 157, 1052-3	5
1535	Genetic and epigenetic modification of MLH1 accounts for a major share of microsatellite-unstable colorectal cancers. <b>2000</b> , 156, 1773-9	230
1534	Promoter hypermethylation and BRCA1 inactivation in sporadic breast and ovarian tumors. <b>2000</b> , 92, 564-9	844
1533	Decreased UV sensitivity, mismatch repair activity and abnormal cell cycle checkpoints in skin cancer cell lines derived from UVB-irradiated XPA-deficient mice. <b>2000</b> , 459, 285-98	14
1532	Characterization of the hOGG1 promoter and its expression during the cell cycle. <b>2000</b> , 461, 109-18	87
1531	Genetic and epigenetic alterations in carcinogenesis. <b>2000</b> , 462, 235-46	52
1530	Familial colorectal cancer: pathology and molecular characteristics. <b>2000</b> , 1, 220-6	44
1529	Mismatch repair defects in cancer. <b>2000</b> , 10, 157-61	208
1528	Microsatellite instability is associated with genetic alteration but not with low levels of expression of the human mismatch repair proteins hMSH2 and hMLH1. <b>2000</b> , 36, 925-31	24
1527	Epigenetic lesions causing genetic lesions in human cancer: promoter hypermethylation of DNA repair genes. <b>2000</b> , 36, 2294-300	203
1526	[Fundamental aspects: mechanisms of carcinogenesis and dose-effect relationship]. <b>2000</b> , 323, 603-10	1
1525	Association of tumour site and sex with survival benefit from adjuvant chemotherapy in colorectal cancer. <b>2000</b> , 355, 1745-50	455
1524	Significance of multiple mutations in cancer. <b>2000</b> , 21, 379-85	314

1523	Tumor microsatellite instability and clinical outcome in young patients with colorectal cancer. <b>2000</b> , 342, 69-77	1076
1522	MethyLight: a high-throughput assay to measure DNA methylation. <i>Nucleic Acids Research</i> , <b>2000</b> , 28, E32	1083
1521	DNA mismatch repair genes and colorectal cancer. <b>2000</b> , 47, 148-53	126
1520	The genetic basis of colorectal cancer: insights into critical pathways of tumorigenesis. <b>2000</b> , 119, 854-65	323
1519	Colon cancer screening. <b>2000</b> , 119, 837-53	282
1518	DNA mismatch repair and genetic instability. <b>2000</b> , 34, 359-399	497
1517	Colon polyps in Beckwith-Wiedmann syndrome: role of imprinted genes. <b>2000</b> , 118, 637	5
1516	Detection of microsatellite instability by fluorescence multiplex polymerase chain reaction. <b>2000</b> , 2, 20-8	104
1515	Methylation of the hMLH1 promoter in multiple gastric carcinomas with microsatellite instability. <b>2001</b> , 51, 445-51	16
1514	The colon cancer burden of genetically defined hereditary nonpolyposis colon cancer. <b>2001</b> , 121, 830-8	209
1513	Extensive methylation of hMLH1 promoter region predominates in proximal colon cancer with microsatellite instability. <b>2001</b> , 121, 1300-9	163
1512	Multistep progression of colorectal cancer in the setting of microsatellite instability: new details and novel insights. <b>2001</b> , 121, 1497-502	25
1511	Microsatellite instability is a predictive marker for survival benefit from adjuvant chemotherapy in a population-based series of stage III colorectal carcinoma. <b>2001</b> , 1, 104-9	56
1510	Genomic imprinting and cancer; new paradigms in the genetics of neoplasia. <b>2001</b> , 120, 151-60	33
1509	GENETIC ANALYSIS OF hMLH1 IN TRANSITIONAL CELL CARCINOMA OF THE URINARY TRACT: PROMOTER METHYLATION OR MUTATION. <b>2001</b> , 165, 1760-1764	14
1508	Loss of imprinting of the insulin-like growth factor II gene occurs by biallelic methylation in a core region of H19-associated CTCF-binding sites in colorectal cancer. <i>Proceedings of the National</i> 11.5  Academy of Sciences of the United States of America, 2001, 98, 591-596	202
1507	Cancer epigenetics takes center stage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 392-4	130
1506	Aberrant patterns of DNA methylation, chromatin formation and gene expression in cancer. <b>2001</b> , 10, 687-92	661

## (2001-2001)

1505	Disruption of the helix-u-turn-helix motif of MutS protein: loss of subunit dimerization, mismatch binding and ATP hydrolysis. <b>2001</b> , 305, 805-16	42
1504	CpG island methylation in colorectal adenomas. <b>2001</b> , 159, 1129-35	181
1503	Loss of CDX2 expression and microsatellite instability are prominent features of large cell minimally differentiated carcinomas of the colon. <b>2001</b> , 159, 2239-48	180
1502	Histopathological identification of colon cancer with microsatellite instability. <b>2001</b> , 158, 527-35	401
1501	Primary ovarian carcinomas display multiple methylator phenotypes involving known tumor suppressor genes. <b>2001</b> , 158, 1121-7	169
1500	Potential of 5-aza-2'-deoxycytidine (Decitabine) a potent inhibitor of DNA methylation for therapy of advanced non-small cell lung cancer. <b>2001</b> , 34 Suppl 4, S111-5	83
1499	The frequency of hereditary defective mismatch repair in a prospective series of unselected colorectal carcinomas. <b>2001</b> , 69, 780-90	272
1498	Assessment of markers for the identification of microsatellite instability phenotype in gastric neoplasms. <b>2001</b> , 164, 61-8	19
1497	Methylation status in the promoter region of the human PGP9.5 gene in cancer and normal tissues. <b>2001</b> , 170, 73-9	33
1496	Trends in biomarker research for cancer detection. <b>2001</b> , 2, 698-704	301
1496 1495	Trends in biomarker research for cancer detection. <b>2001</b> , 2, 698-704  The instability within: problems in current analyses of microsatellite instability. <b>2001</b> , 461, 249-63	301
.,	The instability within: problems in current analyses of microsatellite instability. <b>2001</b> , 461, 249-63	
1495	The instability within: problems in current analyses of microsatellite instability. <b>2001</b> , 461, 249-63	38
1495 1494	The instability within: problems in current analyses of microsatellite instability. <b>2001</b> , 461, 249-63  DNA mismatch repair and cancer. <b>2001</b> , 488, 77-85  From exposure to effect: a comparison of modeling approaches to chemical carcinogenesis. <b>2001</b> ,	38
1495 1494 1493	The instability within: problems in current analyses of microsatellite instability. 2001, 461, 249-63  DNA mismatch repair and cancer. 2001, 488, 77-85  From exposure to effect: a comparison of modeling approaches to chemical carcinogenesis. 2001, 489, 17-45  Favorable survival associated with microsatellite instability in endometrioid endometrial cancers.	38 119 18
1495 1494 1493 1492	The instability within: problems in current analyses of microsatellite instability. 2001, 461, 249-63  DNA mismatch repair and cancer. 2001, 488, 77-85  From exposure to effect: a comparison of modeling approaches to chemical carcinogenesis. 2001, 489, 17-45  Favorable survival associated with microsatellite instability in endometrioid endometrial cancers. 2001, 97, 417-22  The endothelin receptor B (EDNRB) promoter displays heterogeneous, site specific methylation	38 119 18
1495 1494 1493 1492 1491	The instability within: problems in current analyses of microsatellite instability. 2001, 461, 249-63  DNA mismatch repair and cancer. 2001, 488, 77-85  From exposure to effect: a comparison of modeling approaches to chemical carcinogenesis. 2001, 489, 17-45  Favorable survival associated with microsatellite instability in endometrioid endometrial cancers. 2001, 97, 417-22  The endothelin receptor B (EDNRB) promoter displays heterogeneous, site specific methylation patterns in normal and tumor cells. 2001, 10, 903-10  Expression of DNA methyltransferases DNMT1, 3A, and 3B in normal hematopoiesis and in acute	38 119 18 44 78

1487	DNA methylation: an alternative pathway to cancer. <b>2001</b> , 234, 10-20	191
1486	Instability at sequence repeats in melanocytic tumours. <b>2001</b> , 11, 283-9	21
1485	Different mechanisms in the tumorigenesis of proximal and distal colon cancers. <b>2001</b> , 13, 63-9	153
1484	Bethesda guidelines: relation to microsatellite instability and MLH1 promoter methylation in patients with colorectal cancer. <b>2001</b> , 135, 566-76	53
1483	[Hereditary nonpolyposis colorectal carcinoma (HNPCC). Current review of etiology, clinical aspects, diagnosis and therapy]. <b>2001</b> , 96, 529-38	1
1482	An association between sebaceous carcinoma and microsatellite instability in immunosuppressed organ transplant recipients. <b>2001</b> , 116, 246-53	71
1481	Alteration of DNA methylation in gastrointestinal carcinogenesis. 2001, 16, 960-8	37
1480	Technical aspects of minimal residual disease detection in carcinoma patients. <b>2001</b> , 20, 252-64	20
1479	Methylation and colorectal cancer. <b>2001</b> , 195, 111-34	107
1478	Correlation between microsatellite instability and metachronous disease recurrence after endoscopic mucosal resection in patients with early stage gastric carcinoma. <b>2001</b> , 91, 339-345	12
1477	Microsatellite instability and hMLH1/hMSH2 expression in Barrett esophagus-associated adenocarcinoma. <b>2001</b> , 91, 1451-7	43
1476	Concurrent hypermethylation of multiple tumor-related genes in gastric carcinoma and adjacent normal tissues. <b>2001</b> , 91, 2294-2301	117
1475	Loss of heterozygosity on chromosome 13q12-q14, BRCA-2 mutations and lack of BRCA-2 promoter hypermethylation in sporadic epithelial ovarian tumors. <b>2001</b> , 92, 787-95	40
1474	Microsatellite instability at AAAG repeat sequences in respiratory tract cancers. <i>International Journal of Cancer</i> , <b>2001</b> , 91, 200-4	53
1473	DNA methyltransferase expression and DNA methylation of CPG islands and peri-centromeric satellite regions in human colorectal and stomach cancers. <i>International Journal of Cancer</i> , <b>2001</b> , 91, 205 <sup>7</sup> 12	170
1472	MLH1 and MSH2 protein expression as a pre-screening marker in hereditary and non-hereditary endometrial hyperplasia and cancer. <i>International Journal of Cancer</i> , <b>2001</b> , 92, 398-403	57
1471	Resistance to topoisomerase poisons due to loss of DNA mismatch repair. <i>International Journal of Cancer</i> , <b>2001</b> , 93, 571-6	89
1470	Methylation pattern of different regions of the MLH1 promoter and silencing of gene expression in hereditary and sporadic colorectal cancer. <b>2001</b> , 31, 357-61	50

## (2001-2001)

1469	Molecular predictors of survival after adjuvant chemotherapy for colon cancer. <b>2001</b> , 344, 1196-206	743
1468	Role of DNA methylation and histone acetylation in steroid receptor expression in breast cancer. <b>2001</b> , 6, 183-92	66
1467	The reliability of immunohistochemistry as a prescreening method for the diagnosis of hereditary nonpolyposis colorectal cancer (HNPCC)results of an international collaborative study. <b>2001</b> , 1, 87-92	78
1466	Methylation in hMLH1 promoter interferes with its binding to transcription factor CBF and inhibits gene expression. <b>2001</b> , 20, 7120-7	65
1465	Expression of mRNA for DNA methyltransferases and methyl-CpG-binding proteins and DNA methylation status on CpG islands and pericentromeric satellite regions during human hepatocarcinogenesis. <b>2001</b> , 33, 561-8	204
1464	Contrasting molecular pathology of colorectal carcinoma in Egyptian and Western patients. <b>2001</b> , 85, 1037-46	62
1463	Immunohistochemical pattern of hMSH2/hMLH1 in familial and sporadic colorectal, gastric, endometrial and ovarian carcinomas with instability in microsatellite sequences. <b>2001</b> , 438, 39-48	91
1462	Molecular characterization of undifferentiated-type gastric carcinoma. <b>2001</b> , 81, 593-8	65
1461	SOCS-1, a negative regulator of the JAK/STAT pathway, is silenced by methylation in human hepatocellular carcinoma and shows growth-suppression activity. <b>2001</b> , 28, 29-35	586
1460	ABL1 methylation in Ph-positive ALL is exclusively associated with the P210 form of BCR-ABL. <b>2001</b> , 15, 575-82	15
1459	Hypermethylation of the hMLH1 gene promoter is associated with microsatellite instability in early human gastric neoplasia. <b>2001</b> , 20, 329-35	101
1458	Elevated mutant frequencies and increased C : G>T : A transitions in Mlh1-/- versus Pms2-/- murine small intestinal epithelial cells. <b>2001</b> , 20, 619-25	32
1457	Searching for microsatellite mutations in coding regions in lung, breast, ovarian and colorectal cancers. <b>2001</b> , 20, 1005-9	17
1456	DNA methylation, methyltransferases, and cancer. <b>2001</b> , 20, 3139-55	599
1455	Extensive characterization of genetic alterations in a series of human colorectal cancer cell lines. <b>2001</b> , 20, 5025-32	148
1454	Cancer. Death and methylation. 2001, 409, 141, 143-4	35
1453	Haemoglobin scavenger. <b>2001</b> , 409, 141	34
1452	Earth science. In the beginning. <b>2001</b> , 409, 144-5	24

1451	Causes of microsatellite instability in colorectal tumors: implications for hereditary non-polyposis colorectal cancer screening. <b>2001</b> , 126, 85-96	46
1450	Hereditary breast cancer. <b>2001</b> , 38, 387-480	111
1449	Targeting DNA mismatch repair for radiosensitization. <b>2001</b> , 11, 300-15	36
1448	Inactivation of retinoic acid receptor beta by promoter CpG hypermethylation in gastric cancer. <b>2001</b> , 68, 13-21	58
1447	Somatic frameshift mutations in the Bloom syndrome BLM gene are frequent in sporadic gastric carcinomas with microsatellite mutator phenotype. <b>2001</b> , 2, 14	13
1446	HIN-1, a putative cytokine highly expressed in normal but not cancerous mammary epithelial cells.  Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 9796-801	114
1445	Functional analysis of human MLH1 and MSH2 missense variants and hybrid human-yeast MLH1 proteins in Saccharomyces cerevisiae. <b>2001</b> , 10, 1889-900	55
1444	Microsatellite instability and the clinicopathological features of sporadic colorectal cancer. <b>2001</b> , 48, 821-9	264
1443	Understanding the interaction between environmental exposures and molecular events in colorectal carcinogenesis. <b>2001</b> , 19, 524-39	10
1442	Favorable Survival Associated With Microsatellite Instability in Endometrioid Endometrial Cancers. <b>2001</b> , 97, 417-422	40
1441	Concurrent hypermethylation of multiple genes is associated with grade of oligodendroglial tumors. <b>2001</b> , 60, 808-16	89
1440	Carcinogenesis in the GI tract: from morphology to genetics and back again. <b>2001</b> , 14, 236-45	34
1439	Sporadic colorectal cancers with microsatellite instability and their possible origin in hyperplastic polyps and serrated adenomas. <b>2001</b> , 93, 1307-13	283
1438	Expression of hMLH1 is inactivated in the gastric adenomas with enhanced microsatellite instability. <b>2001</b> , 85, 1147-52	36
1437	Frequent loss of expression without sequence mutations of the DCC gene in primary gastric cancer. <b>2001</b> , 85, 199-203	49
1436	Microsatellite-stable diploid carcinoma: a biologically distinct and aggressive subset of sporadic colorectal cancer. <b>2001</b> , 84, 232-6	59
1435	Overexpression of MnSOD protects murine fibrosarcoma cells (FSa-II) from apoptosis and promotes a differentiation program upon treatment with 5-azacytidine: involvement of MAPK and NFkappaB pathways. <b>2001</b> , 3, 375-86	39
1434	Hypermethylation of the promoter region of the E-cadherin gene (CDH1) in sporadic and ulcerative colitis associated colorectal cancer. <b>2001</b> , 48, 367-71	103

1433	The interaction of DNA mismatch repair proteins with human exonuclease I. <b>2001</b> , 276, 33011-8	118
1432	Selective association of the methyl-CpG binding protein MBD2 with the silent p14/p16 locus in human neoplasia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 11.5 <b>2001</b> , 98, 4990-5	172
1431	Promoter hypermethylationcan this change alone ever designate true tumor suppressor gene function?. <b>2001</b> , 93, 664-5	34
1430	Pseudoxanthoma elasticum: evidence for the existence of a pseudogene highly homologous to the ABCC6 gene. <b>2001</b> , 38, 457-61	11
1429	Heterogeneity of DNA methylation status analyzed by bisulfite-PCR-SSCP and correlation with clinico-pathological characteristics in colorectal cancer. <b>2001</b> , 39, 121-8	23
1428	Inactivation of DNA mismatch repair by increased expression of yeast MLH1. <b>2001</b> , 21, 940-51	42
1427	HPP1: A transmembrane protein-encoding gene commonly methylated in colorectal polyps and cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 265-270.5	109
1426	Activation of the p53 DNA Damage Response Pathway after Inhibition of DNA Methyltransferase by 5-Aza-2?-deoxycytidine. <b>2001</b> , 59, 751-757	148
1425	Tolerance of human MSH2+/- lymphoblastoid cells to the methylating agent temozolomide.  Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 7164-9	32
1424	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <b>2001</b> , 10, 3001-7	328
1424 1423	DNA methylation patterns in hereditary human cancers mimic sporadic tumorigenesis. <b>2001</b> , 10, 3001-7  Mismatch repair defects as a cause of resistance to cytotoxic drugs. <b>2001</b> , 1, 149-58	328
1423	Mismatch repair defects as a cause of resistance to cytotoxic drugs. <b>2001</b> , 1, 149-58  Promoter methylation status of the DNA repair genes hMLH1 and MGMT in gastric carcinoma and	29
1423 1422	Mismatch repair defects as a cause of resistance to cytotoxic drugs. 2001, 1, 149-58  Promoter methylation status of the DNA repair genes hMLH1 and MGMT in gastric carcinoma and metaplastic mucosa. 2001, 69, 143-9  Somatic mutations in MEN type 1 tumors, consistent with the Knudson "two-hit" hypothesis. 2001,	29
1423 1422 1421	Mismatch repair defects as a cause of resistance to cytotoxic drugs. <b>2001</b> , 1, 149-58  Promoter methylation status of the DNA repair genes hMLH1 and MGMT in gastric carcinoma and metaplastic mucosa. <b>2001</b> , 69, 143-9  Somatic mutations in MEN type 1 tumors, consistent with the Knudson "two-hit" hypothesis. <b>2001</b> , 86, 4371-4  Prognostic relevance of hMLH1, hMSH2, and BAX protein expression in endometrial carcinoma.	29 34 70
1423 1422 1421 1420	Mismatch repair defects as a cause of resistance to cytotoxic drugs. 2001, 1, 149-58  Promoter methylation status of the DNA repair genes hMLH1 and MGMT in gastric carcinoma and metaplastic mucosa. 2001, 69, 143-9  Somatic mutations in MEN type 1 tumors, consistent with the Knudson "two-hit" hypothesis. 2001, 86, 4371-4  Prognostic relevance of hMLH1, hMSH2, and BAX protein expression in endometrial carcinoma. 2001, 14, 777-83	29 34 70 15
1423 1422 1421 1420	Mismatch repair defects as a cause of resistance to cytotoxic drugs. 2001, 1, 149-58  Promoter methylation status of the DNA repair genes hMLH1 and MGMT in gastric carcinoma and metaplastic mucosa. 2001, 69, 143-9  Somatic mutations in MEN type 1 tumors, consistent with the Knudson "two-hit" hypothesis. 2001, 86, 4371-4  Prognostic relevance of hMLH1, hMSH2, and BAX protein expression in endometrial carcinoma. 2001, 14, 777-83  Methylation matters. 2001, 38, 285-303  Carcinogen-specific induction of genetic instability. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5770-5	29 34 70 15 393

1415	Implication of protein kinase C in the regulation of DNA mismatch repair protein expression and function. <b>2002</b> , 277, 18061-8	21
1414	HLTF gene silencing in human colon cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 4562-7	127
1413	Hypermethylation of the hMLH1 gene promoter in solitary and multiple gastric cancers with microsatellite instability. <b>2002</b> , 86, 564-7	35
1412	Microsatellite instability and intratumoural heterogeneity in 100 right-sided sporadic colon carcinomas. <b>2002</b> , 87, 400-4	37
1411	Human exonuclease I is required for 5' and 3' mismatch repair. <b>2002</b> , 277, 13302-11	183
1410	Characterisation of colorectal cancers showing hypermethylation at multiple CpG islands. <b>2002</b> , 51, 797-802	195
1409	Immunohistochemical pattern of MLH1/MSH2 expression is related to clinical and pathological features in colorectal adenocarcinomas with microsatellite instability. <b>2002</b> , 15, 741-9	79
1408	Detection of multiple gene hypermethylation in the development of esophageal squamous cell carcinoma. <b>2002</b> , 23, 1713-20	86
1407	Evaluation of an inhibitor of DNA methylation, 5-aza-2'-deoxycytidine, for the treatment of lung cancer and the future role of gene therapy. <b>2000</b> , 465, 433-46	22
1406	Genetics of colorectal cancer: hereditary aspects and overview of colorectal tumorigenesis. <b>2002</b> , 64, 27-43	113
1405	DNA methyltransferase deficiency modifies cancer susceptibility in mice lacking DNA mismatch repair. <b>2002</b> , 22, 2906-17	90
1404	CpG methylation modifies the genetic stability of cloned repeat sequences. <b>2002</b> , 12, 1246-56	45
1403	Molecular markers of heterogeneity in colorectal cancers and adenomas. <b>2002</b> , 11, 85-97	10
1402	Building bridges in cancer: mismatch repair and microsatellite instability. <b>2002</b> , 24, 76-81	14
1401	Colorectal Cancer. 2002,	2
1400	Correlation of DNA hypomethylation at pericentromeric heterochromatin regions of chromosomes 16 and 1 with histological features and chromosomal abnormalities of human breast carcinomas. <b>2002</b> , 161, 859-66	56
1399	Different incidence and pattern of p15INK4b and p16INK4a promoter region hypermethylation in Hodgkin's and CD30-Positive non-Hodgkin's lymphomas. <b>2002</b> , 161, 1007-13	52
1398	Specific patterns of gene methylation in natural killer cell lymphomas : p73 is consistently involved. <b>2002</b> , 160, 59-66	70

## (2002-2002)

1397	Genetic and epigenetic alterations in colon cancer. <b>2002</b> , 3, 101-28	222
1396	Functional analysis of hMLH1 variants and HNPCC-related mutations using a human expression system. <b>2002</b> , 122, 211-9	155
1395	CpG island methylation in sporadic colorectal cancers and its relationship to microsatellite instability. <b>2002</b> , 122, 1376-87	310
1394	Emerging concepts in colorectal neoplasia. <b>2002</b> , 123, 862-76	398
1393	Reactivation of a silenced H19 gene in human rhabdomyosarcoma by demethylation of DNA but not by histone hyperacetylation. <b>2002</b> , 1, 2	171
1392	Gene expression patterns in bovine in vitro-produced and nuclear transfer-derived embryos and their implications for early development. <b>2002</b> , 4, 29-38	122
1391	A PCR-based method for studying DNA methylation. <b>2001</b> , 181, 205-16	1
1390	Hypermethylation pathways to colorectal cancer. Implications for prevention and detection. <b>2002</b> , 31, 945-58	13
1389	Genomic Imprinting. 2002,	1
1388	Microsatellite instability, loss of heterozygosity, and loss of hMLH1 and hMSH2 protein expression in endometrial carcinoma. <b>2002</b> , 33, 347-54	54
1387	Distinction between familial and sporadic forms of colorectal cancer showing DNA microsatellite instability. <b>2002</b> , 38, 858-66	97
1386	The immunological synapse. <b>2002</b> , 38, 997-1002	18
1385	DNA mismatch repair defects: role in colorectal carcinogenesis. <b>2002</b> , 84, 27-47	113
1384	The genetic pathogenesis of colorectal cancer. <b>2002</b> , 16, 775-810	48
1383	Pathogenesis of colorectal cancer. <b>2002</b> , 82, 891-904	57
1382	Molecular staging of lung and esophageal cancer. <b>2002</b> , 82, 497-523	7
1381	The molecular and genetic basis of colon cancer. <b>2002</b> , 86, 1467-95	58
1380	Colorectal cancer screening. <b>2002</b> , 82, 943-57	17

1379	Plasma Nucleic Acids in the Diagnosis and Management of Malignant Disease. 2002, 48, 1186-1193		117
1378	Microsatellite instability phenotype of tumors: genotyping or immunohistochemistry? The jury is still out. <i>Journal of Clinical Oncology</i> , <b>2002</b> , 20, 897-9	2.2	57
1377	Mutations of hMLH1 and hMSH2 in patients with suspected hereditary nonpolyposis colorectal cancer: correlation with microsatellite instability and abnormalities of mismatch repair protein expression. <i>Journal of Clinical Oncology</i> , <b>2002</b> , 20, 1203-8	2.2	61
1376	Oxidative stress inactivates the human DNA mismatch repair system. <b>2002</b> , 283, C148-54		203
1375	The role of genomic instabilities in affecting treatment responses of colorectal cancer. <b>2002</b> , 20, 73-80		1
1374	Mismatch repair genes and microsatellite instability as molecular markers for gynecological cancer detection. <b>2002</b> , 227, 579-86		15
1373	Ionising radiation and mutation induction at mouse minisatellite loci. The story of the two generations. <b>2002</b> , 499, 143-50		36
1372	Altered methylation patterns in cancer cell genomes: cause or consequence?. <b>2002</b> , 1, 299-305		243
1371	Pharmacologic unmasking of epigenetically silenced tumor suppressor genes in esophageal squamous cell carcinoma. <b>2002</b> , 2, 485-95		299
1370	Profile of methylated CpG sites of hMLH1 promoter in primary gastric carcinoma with microsatellite instability. <b>2002</b> , 52, 764-8		8
1369	Assessing the use of p16(INK4a) promoter gene methylation in serum for detection of bladder cancer. <b>2002</b> , 42, 622-8; discussion 628-30		55
1368	Genetic profiling of colon cancer. <b>2002</b> , 80, 204-13		19
1367	Evidence for an age-related influence of microsatellite instability on colorectal cancer survival. <i>International Journal of Cancer</i> , <b>2002</b> , 98, 844-50	7.5	31
1366	High-frequency microsatellite instability predicts better chemosensitivity to high-dose 5-fluorouracil plus leucovorin chemotherapy for stage IV sporadic colorectal cancer after palliative bowel resection. <i>International Journal of Cancer</i> , <b>2002</b> , 101, 519-25	7.5	97
1365	Promoter hypermethylation of tumor-related genes in gastric intestinal metaplasia of patients with and without gastric cancer. <i>International Journal of Cancer</i> , <b>2002</b> , 102, 623-8	7.5	120
1364	Evaluation of screening strategy for detecting hereditary nonpolyposis colorectal carcinoma. <b>2002</b> , 94, 911-920		30
1363	Intake of dietary folate vitamers and risk of colorectal carcinoma: results from The Netherlands Cohort Study. <b>2002</b> , 95, 1421-33		70
1362	Differential involvement of the hypermethylator phenotype in hereditary and sporadic colorectal cancers with high-frequency microsatellite instability. <b>2002</b> , 33, 322-5		48

#### (2002-2002)

1361	Deficient expression of O(6)-methylguanine-DNA methyltransferase combined with mismatch-repair proteins hMLH1 and hMSH2 is related to poor prognosis in human biliary tract carcinoma. <b>2002</b> , 9, 371-9	47
1360	DNA methylation and the regulation of gene transcription. <b>2002</b> , 59, 241-57	311
1359	Hereditfes Non-Polyposis kolorektales Karzinom (HNPCC) Aktuelle Bersicht zur Bologie, Klinik, Diagnostik und Therapie. <b>2002</b> , 24, 1-13	
1358	Analysis of genetic and epigenetic alterations of the PTEN gene in gastric cancer. <b>2002</b> , 440, 160-165	53
1357	Comparison of clinicopathologic characteristics and genetic alterations between microsatellite instability-positive and microsatellite instability-negative sporadic colorectal carcinomas in patients younger than 40 years old. <b>2002</b> , 45, 219-28	20
1356	The role of hMLH1 methylation in the development of synchronous sporadic colorectal carcinomas. <b>2002</b> , 45, 674-80	22
1355	Microsatellite instability and its relevance to cutaneous tumorigenesis. 2002, 29, 257-67	21
1354	The colorectal adenoma-carcinoma sequence. <b>2002</b> , 89, 845-60	442
1353	Cancer as an epigenetic disease: DNA methylation and chromatin alterations in human tumours. <b>2002</b> , 196, 1-7	583
1352	Chromosomal autonomy of hMLH1 methylation in colon cancer. <b>2002</b> , 21, 1443-9	7
1351	Aberrant CpG island methylation in cancer cell lines arises in the primary cancers from which they were derived. <b>2002</b> , 21, 2114-7	44
1350	Aberrant methylation of the ATM promoter correlates with increased radiosensitivity in a human colorectal tumor cell line. <b>2002</b> , 21, 3864-71	84
1349	CpG island hypermethylation and tumor suppressor genes: a booming present, a brighter future. <b>2002</b> , 21, 5427-40	952
1348	Genetic and epigenetic modification of mismatch repair genes hMSH2 and hMLH1 in sporadic breast cancer with microsatellite instability. <b>2002</b> , 21, 5696-703	69
1347	5-Azacytidine and 5-aza-2'-deoxycytidine as inhibitors of DNA methylation: mechanistic studies and their implications for cancer therapy. <b>2002</b> , 21, 5483-95	992
1346	Frequent RASSF1A tumour suppressor gene promoter methylation in Wilms' tumour and colorectal cancer. <b>2002</b> , 21, 7277-82	73
1345	Germline, somatic and epigenetic events underlying mismatch repair deficiency in colorectal and HNPCC-related cancers. <b>2002</b> , 21, 7585-92	69
1344	Gene silencing in phenomena related to DNA repair. <b>2002</b> , 21, 9033-42	17

1343	Frameshift mutations of human gastrin receptor gene (hGARE) in gastrointestinal cancers with microsatellite instability. <b>2002</b> , 82, 265-71	20
1342	Regulation of DNA methylation of Rasgrf1. <b>2002</b> , 30, 92-6	142
1341	The fundamental role of epigenetic events in cancer. <b>2002</b> , 3, 415-28	4311
1340	Methylation of hMLH1 promoter correlates with the gene silencing with a region-specific manner in colorectal cancer. <b>2002</b> , 86, 574-9	82
1339	Reduced Fhit expression is associated with mismatch repair deficiency in human advanced colorectal carcinoma. <b>2002</b> , 87, 441-5	25
1338	Is reduced expression of mismatch repair genes MLH1 and MSH2 in patients with sporadic colorectal cancer related to their prognosis?. <b>2002</b> , 19, 71-7	17
1337	RB1 and CDKN2A Functional Defects Resulting in Retinoblastoma. <b>2002</b> , 36, 625-630	5
1336	Chemoprevention of colon cancer: current status and future prospects. <b>2002</b> , 21, 323-48	51
1335	Molecular markers in prognosis of colorectal cancer and prediction of response to treatment. <b>2002</b> , 16, 331-45	22
1334	Promoter methylations of p16INK4a and p14ARF genes in early and advanced gastric cancer. Correlations of the modes of their occurrence with histologic type. <b>2002</b> , 198, 785-94	14
1333	Promoter hypermethylation frequency and BRAF mutations distinguish hereditary non-polyposis colon cancer from sporadic MSI-H colon cancer. <b>2004</b> , 3, 101-7	154
1332	Prognosis in DNA mismatch repair deficient colorectal cancer: are all MSI tumours equivalent?. <b>2004</b> , 3, 85-91	36
1331	Transcriptional control of the DNA methyltransferases is altered in aging and neoplastically-transformed human fibroblasts. <b>2003</b> , 252, 33-43	149
1330	Phase I trial of continuous infusion 5-aza-2'-deoxycytidine. <b>2003</b> , 51, 231-9	92
1329	Methylation of the hMLH1 and hMSH2 promoter in early-onset sporadic colorectal carcinomas with microsatellite instability. <b>2003</b> , 18, 196-202	33
1328	Loss of expression of DNA repair enzymes MGMT, hMLH1, and hMSH2 during tumor progression in gastric cancer. <b>2003</b> , 6, 86-95	31
1327	Microsatellite instability and mutations in DNA mismatch repair genes in sporadic colorectal cancers. <b>2003</b> , 46, 1069-77	40
1326	Microsatellite instability in esophageal squamous cell carcinoma is not associated with hMLH1 promoter hypermethylation. <b>2003</b> , 53, 270-6	23

## (2003-2003)

1325	Modulation of hOGG1 DNA repair enzyme in human cultured cells in response to pro-oxidant and antioxidant challenge. <b>2003</b> , 35, 397-405		12
1324	Downregulation of CD44v6 in colorectal carcinomas is associated with hypermethylation of the CD44 promoter region. <b>2003</b> , 74, 262-6		11
1323	Mutation frequency analysis of mononucleotide and dinucleotide repeats after oxidative stress. <b>2003</b> , 42, 75-84		12
1322	Methylation profile of the MLH1 promoter region and their relationship to colorectal carcinogenesis. <b>2003</b> , 36, 17-25		19
1321	Biallelic somatic inactivation of the mismatch repair gene MLH1 in a primary skin melanoma. <b>2003</b> , 37, 165-75		10
1320	Frequency of loss of hMLH1 expression in colorectal carcinoma increases with advancing age. <b>2003</b> , 97, 1421-7		86
1319	Evidence of a preferred molecular pathway in patients with synchronous colorectal cancer. <b>2003</b> , 98, 48-54		26
1318	High-resolution methylation analysis of the hMLH1 promoter in sporadic endometrial and colorectal carcinomas. <b>2003</b> , 98, 1540-6		26
1317	Mismatch repair gene expression defects contribute to microsatellite instability in ovarian carcinoma. <b>2003</b> , 98, 2199-206		83
1316	Methylation pattern of HLTF gene in digestive tract cancers. <i>International Journal of Cancer</i> , <b>2003</b> , 104, 433-6	7.5	32
1315	Role of hMLH1 promoter hypermethylation in drug resistance to 5-fluorouracil in colorectal cancer cell lines. <i>International Journal of Cancer</i> , <b>2003</b> , 106, 66-73	7.5	224
1314	Inactivation of p16INK4a by CpG hypermethylation is not a frequent event in colorectal cancer. <b>2003</b> , 84, 143-50		16
1313	Inactivation of helicase-like transcription factor by promoter hypermethylation in human gastric cancer. <b>2003</b> , 37, 91-7		20
1312	Hereditary nonpolyposis colorectal cancer and related conditions. 2003, 122A, 325-34		62
1311	DNMT cooperativitythe developing links between methylation, chromatin structure and cancer. <b>2003</b> , 25, 1071-84		72
1310	Clinicopathological and molecular biological features of colorectal cancer in patients less than 40 years of age. <b>2003</b> , 90, 205-14		116
1309	Polymerase chain reaction-based methods of DNA methylation analysis. 2003, 317, 259-65		36
1308	Tumor suppressor gene hypermethylation as a predictor of gastric stromal tumor behavior. <b>2003</b> , 7, 1004-14; discussion 1014		54

1307	Microsatellite mutations of transforming growth factor-beta receptor type II and caspase-5 occur in human precursor T-cell lymphoblastic lymphomas/leukemias in vivo but are not associated with hMSH2 or hMLH1 promoter methylation. <b>2003</b> , 27, 23-34	18
1306	Loss of mismatch repair proteins in sebaceous gland tumors. <b>2003</b> , 30, 178-84	42
1305	Expression of DNA (5-cytosin)-methyltransferases (DNMTs) in hepatocellular carcinomas. <b>2003</b> , 26, 186-191	44
1304	Sporadic colorectal cancers with defective mismatch repair display a number of specific morphological characteristics: relationship between the expression of hMLH1 and hMSH2 proteins and clinicopathological features of 273 adenocarcinomas. <b>2003</b> , 43, 40-7	12
1303	Microsatellite instability is associated with hypermethylation of the hMLH1 gene and reduced gene expression in mycosis fungoides. <b>2003</b> , 121, 894-901	45
1302	Aberrant methylation of the vascular endothelial growth factor receptor-1 gene in prostate cancer. <b>2003</b> , 94, 536-9	16
1301	Methylation of the hMLH1 promoter and its association with microsatellite instability in acute myeloid leukemia. <b>2003</b> , 17, 83-8	50
1300	Frequent hypermethylation of MLH1 promoter in normal endometrium of patients with endometrial cancers. <b>2003</b> , 22, 2352-60	77
1299	Transcriptional silencing of the DLC-1 tumor suppressor gene by epigenetic mechanism in gastric cancer cells. <b>2003</b> , 22, 3943-51	97
1298	A role for DNA mismatch repair in sensing and responding to fluoropyrimidine damage. <b>2003</b> , 22, 7376-88	53
1297	Distinct patterns of microsatellite instability are seen in tumours of the urinary tract. <b>2003</b> , 22, 8699-706	113
1296	Radiation-induced transgenerational instability. <b>2003</b> , 22, 7087-93	150
1295	Activated proliferation of B-cell lymphomas/leukemias with the SHP1 gene silencing by aberrant CpG methylation. <b>2003</b> , 83, 1849-58	58
1294	DNMT1 is required to maintain CpG methylation and aberrant gene silencing in human cancer cells. <b>2003</b> , 33, 61-5	502
1293	Genome-wide analysis of epigenetics in cancer. <b>2003</b> , 983, 101-9	43
1292	Epigenetics in carcinogenesis and cancer prevention. <b>2003</b> , 983, 213-9	77
1291	DNA methylation as a cancer-specific biomarker: from molecules to populations. <b>2003</b> , 983, 286-97	30
1290	Progression of gene hypermethylation in gallstone disease leading to gallbladder cancer. <b>2003</b> , 10, 882-9	45

### (2003-2003)

1289	carcinomas. <b>2003</b> , 124, 1300-10	37
1288	Prognostic value of hMLH1 methylation and microsatellite instability in pancreatic endocrine neoplasms. <b>2003</b> , 134, 902-8; discussion 909	61
1287	Gene silencing in cancer in association with promoter hypermethylation. <b>2003</b> , 349, 2042-54	2694
1286	Frequent promoter methylation of CDH1, DAPK, RARB, and HIC1 genes in carcinoma of cervix uteri: its relationship to clinical outcome. <b>2003</b> , 2, 24	166
1285	Critical role of histone methylation in tumor suppressor gene silencing in colorectal cancer. <b>2003</b> , 23, 206-15	302
1284	Decreased expression of the DNA mismatch repair gene Mlh1 under hypoxic stress in mammalian cells. <b>2003</b> , 23, 3265-73	231
1283	Multiple mutations and cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 776-81	557
1282	Chromosomal imbalances in the colorectal carcinomas with microsatellite instability. <b>2003</b> , 163, 1429-36	35
1281	Aberrant DNA methylation: have we entered the era of more than one type of colorectal cancer?. <b>2003</b> , 162, 1043-5	11
1280	The relationship between hypomethylation and CpG island methylation in colorectal neoplasia. <b>2003</b> , 162, 1361-71	153
1279	Hereditary colorectal cancer. <b>2003</b> , 348, 919-32	1540
1278	Human mismatch repair, drug-induced DNA damage, and secondary cancer. <b>2003</b> , 85, 1149-60	64
1277	Murine DNA cytosine C(5)-methyltransferase: in vitro studies of de novo methylation spreading. <b>2003</b> , 310, 209-14	7
1276	Possible association between tumor-suppressor gene mutations and hMSH2/hMLH1 inactivation in alveolar soft part sarcoma. <b>2003</b> , 34, 841-9	25
1275	Germline mutations but not somatic changes at the MYH locus contribute to the pathogenesis of unselected colorectal cancers. <b>2003</b> , 162, 1545-8	112
1274	Epigenetic gene silencing in cancer initiation and progression. <b>2003</b> , 190, 125-33	141
1273	Methylenetetrahydrofolate reductase polymorphisms and risk of sporadic and hereditary colorectal cancer with or without microsatellite instability. <b>2003</b> , 191, 179-85	36
1272	Expression of Fhit, Mlh1, and P53 protein in human gallbladder carcinoma. <b>2003</b> , 199, 131-8	25

1271	Multiple sites required for expression in 5'-flanking region of the hMLH1 gene. 2003, 306, 57-65	28
1270	DNA repair defects in colon cancer. <b>2003</b> , 13, 61-9	74
1269	E-cadherin expression is silenced by DNA methylation in cervical cancer cell lines and tumours. <b>2003</b> , 39, 517-23	82
1268	Concurrent hypermethylation of gene promoters is associated with a MSI-H phenotype and diploidy in gastric carcinomas. <b>2003</b> , 39, 1222-7	41
1267	The role of mismatch repair in small-cell lung cancer cells. <b>2003</b> , 39, 1456-67	16
1266	Mismatch repair and response to DNA-damaging antitumour therapies. <b>2003</b> , 39, 2142-9	70
1265	Mechanism of 5'-directed excision in human mismatch repair. <b>2003</b> , 12, 1077-86	186
1264	Relevance of DNA methylation in the management of cancer. <b>2003</b> , 4, 351-8	251
1263	Inhibitors of DNA methylation in the treatment of hematological malignancies and MDS. <b>2003</b> , 109, 89-102	84
1262	DNA mismatch repair and acquired cisplatin resistance in E. coli and human ovarian carcinoma cells. <b>2003</b> , 2, 73-89	31
1261	Drug treatment in the development of mismatch repair defective acute leukemia and myelodysplastic syndrome. <b>2003</b> , 2, 547-59	42
1260	Advances in Male Mediated Developmental Toxicity. 2003,	9
1259	Implications of genetic testing in the management of colorectal cancer. <b>2003</b> , 3, 73-88	9
1258	Regulation of the human MSH6 gene by the Sp1 transcription factor and alteration of promoter activity and expression by polymorphisms. <b>2003</b> , 23, 7992-8007	50
1257	Microsatellite Instability in Chronic Cholecystitis Is Indicative of an Early Stage in Gallbladder Carcinogenesis. <b>2003</b> , 120, 413-417	20
1256	Endothelin B receptor gene hypermethylation in prostate adenocarcinoma. <b>2003</b> , 56, 52-5	44
1255	Automated, multiplex assay for high-frequency microsatellite instability in colorectal cancer. <i>Journal of Clinical Oncology</i> , <b>2003</b> , 21, 3105-12	31
1254	The contribution of cis-elements to disease-associated repeat instability: clinical and experimental evidence. <b>2003</b> , 100, 25-55	120

1253	Reactivation of silenced genes and transcriptional therapy. <b>2003</b> , 100, 56-64	12
1252	SOCS-3 is frequently silenced by hypermethylation and suppresses cell growth in human lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 14133-8 <sup>-5</sup>	319
1251	CpG island methylation is a common finding in colorectal cancer cell lines. 2003, 88, 413-9	44
1250	Tumor Suppressor Genes. 2003,	1
1249	Toward new strategies to select young endometrial cancer patients for mismatch repair gene mutation analysis. <i>Journal of Clinical Oncology</i> , <b>2003</b> , 21, 4364-70	112
1248	Human DNA methyltransferase gene DNMT1 is regulated by the APC pathway. <b>2003</b> , 24, 17-24	40
1247	PCR plus phylogenetics pin down group A coxsackievirus infections. <b>2003</b> , 56, 55-55	
1246	Adverse prognostic effect of methylation in colorectal cancer is reversed by microsatellite instability. <i>Journal of Clinical Oncology</i> , <b>2003</b> , 21, 3729-36	166
1245	Molecular progression of promoter methylation in intraductal papillary mucinous neoplasms (IPMN) of the pancreas. <b>2003</b> , 24, 193-8	133
1244	Dietary factors and the occurrence of truncating APC mutations in sporadic colon carcinomas: a Dutch population-based study. <b>2003</b> , 24, 283-90	32
1243	DNA methylation markers in patients with gastrointestinal cancers. Current understanding, potential applications for disease management and development of diagnostic tools. <b>2003</b> , 21, 299-308	22
1242	Inadequate "caretaker" gene function and human cancer development. <b>2003</b> , 222, 249-68	5
1241	The APC tumor suppressor pathway. 2003, 222, 21-40	3
1240	Hereditary colon cancer genes. <b>2003</b> , 222, 59-83	3
1239	Microsatellite instability and p53 expression in gallbladder carcinomas. <b>2003</b> , 12, 96-102	18
1238	Aberrant hypermethylation of tumor suppressor genes in pancreatic endocrine neoplasms. <b>2003</b> , 238, 423-31; discussion 431-2	123
1237	The hereditary nonpolyposis colorectal cancer syndrome: genetics and clinical implications. <b>2003</b> , 138, 560-70	219
1236	Current and evolving strategies for colorectal cancer screening. <b>2003</b> , 10, 193-204	27

1235 Polyp Biology. 351-357

1234	DNA mismatch repair and cancer. <b>2003</b> , 8, d997-1017	63
1233	Characterization of mutator pathway in younger-age-onset colorectal adenocarcinomas. <b>2003</b> , 18, 387-91	5
1232	Microsatellite instability and MLH1 promoter methylation in human retinoblastoma. <b>2004</b> , 45, 3404-9	26
	Hypermethylation of E-cadherin gene is frequent and independent of p16INK4A methylation in non-small cell lung cancer: Potential prognostic implication. <b>2004</b> , 12, 389	1
1230	MSI-testing in hereditary non-polyposis colorectal carcinoma (HNPCC). <b>2004</b> , 20, 225-36	10
1229	Colorectal carcinogenesis: MSI-H versus MSI-L. <b>2004</b> , 20, 199-206	83
1228	The promise of biomarkers in colorectal cancer detection. <b>2004</b> , 20, 87-96	9
1227	Lynch syndrome (HNPCC) and microsatellite instability. <b>2004</b> , 20, 179-80	30
	Diagnostic application of hMLH1 methylation in hereditary non-polyposis colorectal cancer. <b>2004</b> , 20, 277-82	7
1225	DNA methylation analysis in human cancer. <b>2005</b> , 103, 123-36	10
1224	Microsatellite instability: theory and methods. <b>2004</b> , 97, 237-50	1
1223	Principles of Molecular Oncology. <b>2004</b> ,	6
	The acquisition of hMLH1 methylation in plasma DNA after chemotherapy predicts poor survival for ovarian cancer patients. <b>2004</b> , 10, 4420-6	216
	Epigenetic loss of the familial tumor-suppressor gene exostosin-1 (EXT1) disrupts heparan sulfate synthesis in cancer cells. <b>2004</b> , 13, 2753-65	76
	Novel poly(ADP-ribose) polymerase-1 inhibitor, AG14361, restores sensitivity to temozolomide in mismatch repair-deficient cells. <b>2004</b> , 10, 881-9	146
	Relationship between CDX2 gene methylation and dietary factors in gastric cancer patients. <b>2005</b> , 26, 193-200	66
1218	Epigenetics and cancer. <b>2004</b> , 18, 2315-35	352

1217	Measurement of DNA mismatch repair activity in live cells. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, e100 20.1	43
1216	Characterization of mutator phenotype in familial colorectal cancer patients not fulfilling amsterdam criteria. <b>2004</b> , 10, 6159-68	13
1215	Hypermethylation of a small CpGuanine-rich region correlates with loss of activator protein-2alpha expression during progression of breast cancer. <b>2004</b> , 64, 1611-20	63
1214	Detection of promoter hypermethylation of multiple genes in the tumor and bronchoalveolar lavage of patients with lung cancer. <b>2004</b> , 10, 2284-8	143
1213	Distinct patterns of KRAS mutations in colorectal carcinomas according to germline mismatch repair defects and hMLH1 methylation status. <b>2004</b> , 13, 2303-11	102
1212	Mutations in DNA mismatch repair genes: Implications for DNA damage signaling and drug sensitivity (Review). <b>2004</b> , 24, 1039	6
1211	Differential expression patterns of the insulin-like growth factor 2 gene in human colorectal cancer. <b>2004</b> , 25, 62-8	18
1210	Evaluation of microsatellite instability, hMLH1 expression and hMLH1 promoter hypermethylation in defining the MSI phenotype of colorectal cancer. <b>2004</b> , 3, 73-8	35
1209	Defining the microsatellite instability phenotype in colorectal cancer through analysis of surrogate markers. <b>2004</b> , 3, 79-81	
1208	Quantitative detection of promoter hypermethylation of multiple genes in the tumor, urine, and serum DNA of patients with renal cancer. <b>2004</b> , 64, 5511-7	200
1207	Hereditary Nonpolyposis Colorectal Cancer. <b>2004</b> , 166-188	
1206	Molecular Diagnosis of Cancer. <b>2004</b> ,	1
1205	Molecular differences between sporadic serrated and conventional colorectal adenomas. <b>2004</b> , 10, 3082-90	67
1204	Activity (transcription) of the genes for MLH1, MSH2 and p53 in sporadic colorectal tumours with micro-satellite instability. <b>2004</b> , 90, 2006-12	6
1203	Methylation pattern of CDH13 gene in digestive tract cancers. <b>2004</b> , 91, 1139-42	37
1202	Pancreatic Cancer. <b>2004</b> ,	
1201	Selenomethionine induces sustained ERK phosphorylation leading to cell-cycle arrest in human colon cancer cells. <b>2005</b> , 26, 109-17	36
1200	The contribution of genetic and epigenetic changes in granulosa cell tumors of ovarian origin. <b>2004</b> , 10, 5537-45	31

1199	Promoter methylation profiling of 30 genes in human malignant melanoma. <b>2004</b> , 95, 962-8	88
1198	DNA hypermethylation in gastric cancer. <b>2004</b> , 20 Suppl 1, 131-42	34
1197	Molecular differences between RER+ and RER- sporadic endometrial carcinomas in a large population-based series. <b>2004</b> , 14, 957-65	25
1196	Testing guidelines for hereditary non-polyposis colorectal cancer. <b>2004</b> , 4, 153-8	145
1195	CpG island methylator phenotype in cancer. <b>2004</b> , 4, 988-93	870
1194	DNA methylation changes in multiple myeloma. <b>2004</b> , 18, 1687-92	108
1193	Generating mutations but providing chemosensitivity: the role of O6-methylguanine DNA methyltransferase in human cancer. <b>2004</b> , 23, 1-8	262
1192	Aberrant methylation of integrin alpha4 gene in human gastric cancer cells. <b>2004</b> , 23, 3474-80	45
1191	RARbeta2 is a candidate tumor suppressor gene in myelofibrosis with myeloid metaplasia. <b>2004</b> , 23, 7846-53	41
1190	Allelic imbalance of APAF-1 locus at 12q23 is related to progression of colorectal carcinoma. <b>2004</b> , 23, 8292-300	30
1189	Mlh1 mediates tissue-specific regulation of mitotic recombination. <b>2004</b> , 23, 9017-24	22
1188	Promoter hypermethylation of MGMT, CDH1, RAR-beta and SYK tumour suppressor genes in granulosa cell tumours (GCTs) of ovarian origin. <b>2004</b> , 90, 874-81	20
1187	MSH6 missense mutations are often associated with no or low cancer susceptibility. <b>2004</b> , 91, 1287-92	35
1186	Aberrant CpG island hypermethylation of multiple genes in colorectal neoplasia. <b>2004</b> , 84, 884-93	127
1185	Alterations of DNA mismatch repair proteins and microsatellite instability levels in gastric cancer cell lines. <b>2004</b> , 84, 915-22	22
1184	Mucinous carcinoma of the colon: correlation of loss of mismatch repair enzymes with clinicopathologic features and survival. <b>2004</b> , 17, 696-700	116
1183	Unusual tumors associated with the hereditary nonpolyposis colorectal cancer syndrome. <b>2004</b> , 17, 981-9	59
1182	Three independent genetic profiles based on mucin expression in early differentiated-type gastric cancersa new concept of genetic carcinogenesis of early differentiated-type adenocarcinomas.  2004, 17, 1223-34	40

1181	Mutation rates in the complex microsatellite MYCL1 and related simple repeats in cultured human cells. <b>2004</b> , 545, 117-26	8
1180	Clinicopathologic features in colorectal cancer patients with microsatellite instability. 2004, 568, 275-82	59
1179	Defective mismatch repair and the development of recurrent endometrial carcinoma. <b>2004</b> , 94, 550-9	24
1178	Microsatellite instability in in vitro ageing of T lymphocyte clones. <b>2004</b> , 39, 499-505	22
1177	Epigenetic regulation of the taxol resistance-associated gene TRAG-3 in human tumors. <b>2004</b> , 151, 1-13	27
1176	Epigenetic inactivation of tumor suppressor genes in hematologic malignancies. <b>2004</b> , 80, 108-19	3
1175	Beyond geneticsthe emerging role of epigenetic changes in hematopoietic malignancies. <b>2004</b> , 80, 120-7	8
1174	The utility of immunohistochemical detection of DNA mismatch repair gene proteins. 2004, 445, 431-41	83
1173	A DNA microarray-based methylation-sensitive (MS)-AFLP hybridization method for genetic and epigenetic analyses. <b>2004</b> , 271, 678-86	21
1172	BAX and caspase-5 frameshift mutations and spontaneous apoptosis in colorectal cancer with microsatellite instability. <b>2004</b> , 19, 538-44	12
1171	Novel aspects of macromolecular repair and relationship to human disease. <b>2004</b> , 82, 280-97	25
1170	Promoter methylation and expression of DNA repair genes hMLH1 and MGMT in acute myeloid leukemia. <b>2004</b> , 83, 628-33	18
1169	Gene silencing in DNA damage repair. <b>2004</b> , 61, 2168-72	5
1168	Simple and complex genetics of colorectal cancer susceptibility. <b>2004</b> , 129C, 35-43	24
1167	Mutations of BRAF are associated with extensive hMLH1 promoter methylation in sporadic colorectal carcinomas. <i>International Journal of Cancer</i> , <b>2004</b> , 108, 237-42 $7.5$	109
1166	Correlation of hMLH1 and HPP1 hypermethylation in gastric, but not in esophageal and cardiac adenocarcinoma. <i>International Journal of Cancer</i> , <b>2004</b> , 110, 208-11	28
1165	Histone deacetylase inhibitors: understanding a new wave of anticancer agents. <i>International Journal of Cancer</i> , <b>2004</b> , 112, 171-8	226
1164	Molecular diagnostic applications of DNA methylation technology. <b>2004</b> , 37, 595-604	51

1163	Hypermethylation in histologically distinct classes of breast cancer. <b>2004</b> , 10, 5998-6005		102
1162	Colorectal cancer with mutation in BRAF, KRAS, and wild-type with respect to both oncogenes showing different patterns of DNA methylation. <i>Journal of Clinical Oncology</i> , <b>2004</b> , 22, 4584-94	2.2	186
1161	Extensive but hemiallelic methylation of the hMLH1 promoter region in early-onset sporadic colon cancers with microsatellite instability. <b>2004</b> , 2, 147-56		95
1160	Aberrant gene expression in human non small cell lung carcinoma cells exposed to demethylating agent 5-aza-2'-deoxycytidine. <b>2004</b> , 6, 412-9		38
1159	Use of 5-fluorouracil and survival in patients with microsatellite-unstable colorectal cancer. <b>2004</b> , 126, 394-401		364
1158	CpG island methylation in gastroenterologic neoplasia: a maturing field. <b>2004</b> , 127, 1578-88		118
1157	Activity of the suppressor of cytokine signaling-3 promoter in human non-small-cell lung cancer. <b>2004</b> , 5, 366-70		25
1156	A CpG island hypermethylation profile of primary colorectal carcinomas and colon cancer cell lines. <b>2004</b> , 3, 28		122
1155	Challenges and pitfalls in HNPCC screening by microsatellite analysis and immunohistochemistry. <b>2004</b> , 6, 308-15		47
1154	Chemically induced DNA hypomethylation in breast carcinoma cells detected by the amplification of intermethylated sites. <b>2004</b> , 6, R329-37		24
1153	The clinical features of rectal cancers with high-frequency microsatellite instability (MSI-H) in Japanese males. <b>2004</b> , 216, 55-62		44
1152	Positive interactive radiosensitisation in vitro with the combination of two nucleoside analogues, (E)-2'-deoxy-2'-(fluoromethylene) cytidine and iododeoxyuridine. <b>2004</b> , 40, 1572-80		2
1151	Increased DNA methyltransferase 1 (DNMT1) protein expression correlates significantly with poorer tumor differentiation and frequent DNA hypermethylation of multiple CpG islands in gastric cancers. <b>2004</b> , 164, 689-99		240
1150	Emerging diet-related surrogate end points for colorectal cancer: UK Food Standards Agency diet and colonic health workshop report. <b>2004</b> , 91, 315-23		8
1149	Hyperplastic (serrated) polyps of the colorectum: relationship of CpG island methylator phenotype and K-ras mutation to location and histologic subtype. <b>2004</b> , 28, 423-34		147
1148	5-Aza-2'-deoxycytidine reactivates the CDH1 gene without influencing methylation of the entire CpG island or histone modification in a human cancer cell line. <b>2004</b> , 80, 342-348		2
1147	Immunohistochemistry and microsatellite instability testing for selecting MLH1, MSH2 and MSH6 mutation carriers in hereditary non-polyposis colorectal cancer. <b>2004</b> , 12, 621		3
1146	Value of immunohistochemical detection of DNA mismatch repair proteins in predicting germline mutation in hereditary colorectal neoplasms. <b>2005</b> , 29, 96-104		121

## (2005-2005)

1145	Phenotype of microsatellite-stable colorectal carcinomas with CpG island methylation. <b>2005</b> , 29, 429-36	54
1144	Epigenetic events in the colorectum and in colon cancer. <b>2005</b> , 33, 684-8	71
1143	Methylation analysis of the cell cycle control genes in myelofibrosis with myeloid metaplasia. <b>2005</b> , 29, 511-5	25
1142	Aberrant DNA methylation as a cancer-inducing mechanism. <b>2005</b> , 45, 629-56	426
1141	Microsatellite instability in gastrointestinal tract cancers: a brief update. <b>2005</b> , 35, 1005-15	22
1140	Variable MLH1 promoter methylation patterns in endometrial carcinomas of endometrioid subtype lacking DNA mismatch repair. <b>2005</b> , 15, 1089-96	6
1139	Aspirin-induced nuclear translocation of NFkappaB and apoptosis in colorectal cancer is independent of p53 status and DNA mismatch repair proficiency. <b>2005</b> , 92, 1137-43	32
1138	The role of MLH1, MSH2 and MSH6 in the development of multiple colorectal cancers. <b>2005</b> , 93, 472-7	47
1137	Epigenetic alterations in gastric carcinogenesis. <b>2005</b> , 15, 247-54	64
1136	Modulation of CDK2-AP1 (p12(DOC-1)) expression in human colorectal cancer. <b>2005</b> , 24, 3657-68	11
1135	Methylation-associated silencing of death-associated protein kinase gene in laryngeal squamous cell cancer. <b>2005</b> , 115, 1395-401	22
1134	[Hereditary predispositions to colorectal cancer]. <b>2005</b> , 29, 701-10	1
1133	[Hereditary non polyposis colon cancer: diagnosis and management]. <b>2005</b> , 29, 1028-34	4
1132	Promoter methylation of the hMLH1 gene and protein expression of human mutL homolog 1 and human mutS homolog 2 in resected esophageal squamous cell carcinoma. <b>2005</b> , 130, 1371	28
1131	Genomic stability and tumorigenesis. <b>2005</b> , 15, 61-6	43
1130	Somatic evolution of cancer cells. <b>2005</b> , 15, 436-50	36
1129	Numbers of mutations to different types of colorectal cancer. <b>2005</b> , 5, 126	12
1128	Mutations in APC, CTNNB1 and K-ras genes and expression of hMLH1 in sporadic colorectal carcinomas from the Netherlands Cohort Study. <b>2005</b> , 5, 160	44

1127	Hereditary colorectal cancer-part II. <b>2005</b> , 42, 267-333		27
1126	Up-regulation of DNA methyltransferase 3B expression in endometrial cancers. <b>2005</b> , 96, 531-8		56
1125	Molecular cloning and characterization of FBXO47, a novel gene containing an F-box domain, located in the 17q12 band deleted in papillary renal cell carcinoma. <b>2005</b> , 43, 83-94		12
1124	Alterations of cancer-related genes in soft tissue sarcomas: hypermethylation of RASSF1A is frequently detected in leiomyosarcoma and associated with poor prognosis in sarcoma. <i>International Journal of Cancer</i> , <b>2005</b> , 114, 442-7	7.5	43
1123	Frequent microsatellite instability in primary esophageal carcinoma associated with extraesophageal primary carcinoma. <i>International Journal of Cancer</i> , <b>2005</b> , 114, 166-73	7.5	12
1122	Mucinous carcinomas of the colon and rectum show higher rates of microsatellite instability and lower rates of chromosomal instability: a study matched for T classification and tumor location. <b>2005</b> , 103, 2023-9		33
1121	BRAF mutations in colorectal carcinoma suggest two entities of microsatellite-unstable tumors. <b>2005</b> , 104, 952-61		55
1120	Molecular pathogenesis of colorectal cancer: implications for molecular diagnosis. <b>2005</b> , 104, 2035-47		112
1119	Expression of angiogenic VEGF-A (soluble isoforms 121, 165) and lymphangiogenic VEGF-C in colorectal cancers with micro-satellite instability. <b>2005</b> , 92, 317-25		4
1118	Clinical implications of aberrant DNA methylation patterns in acute myelogenous leukemia. <b>2005</b> , 84 Suppl 1, 39-46		67
1117	Mechanisms of microsatellite instability in colorectal cancer patients in different age groups. <b>2005</b> , 48, 2061-9		24
1116	Immunogenic hsp-70 is overexpressed in colorectal cancers with high-degree microsatellite instability. <b>2005</b> , 48, 2322-8		10
1115	Lynch syndrome (hereditary non-polyposis colorectal cancer): current concepts and approaches to management. <b>2005</b> , 7, 412-20		12
1114	Dormant hypermethylated tumour suppressor genes: questions and answers. <b>2005</b> , 205, 172-80		74
1113	Routine testing for mismatch repair deficiency in sporadic colorectal cancer is justified. <b>2005</b> , 207, 377-	84	41
1112	Upstream CpG island methylation of the PAX3 gene in human rhabdomyosarcomas. <b>2005</b> , 44, 328-37		23
1111	MUC gene abnormalities in sporadic and hereditary mucinous colon cancers with microsatellite instability. <b>2005</b> , 21, 121-6		10
1110	Non-Genotoxic Causes of Cancer. <b>2005</b> ,		

1109	Relationship between the extent of chromosomal losses and the pattern of CpG methylation in gastric carcinomas. <b>2005</b> , 20, 790-805	14
1108	Rectal Cancer: Pathological Features and their Relationship to Prognosis and Treatment. <b>2005</b> , 57-72	
1107	The molecular pathology of inflammatory bowel disease-associated neoplasia and preneoplasia. <b>2003</b> , 711-718	
1106	Mismatch repair system and aging: microsatellite instability in peripheral blood cells from differently aged participants. <b>2005</b> , 60, 285-92	38
1105	Expression of tumor suppressor and tumor-related proteins in differentiated carcinoma, undifferentiated carcinoma with tubular component and pure undifferentiated carcinoma of the stomach. <b>2005</b> , 35, 580-6	15
1104	Promoter hypermethylation of mismatch repair gene hMLH1 predicts the clinical response of malignant astrocytomas to nitrosourea. <b>2005</b> , 11, 1539-44	29
1103	Promoter hypermethylation is the predominant mechanism in hMLH1 and hMSH2 deregulation and is a poor prognostic factor in nonsmoking lung cancer. <b>2005</b> , 11, 5410-6	55
1102	Microsatellite instability testing in colorectal carcinoma: choice of markers affects sensitivity of detection of mismatch repair-deficient tumors. <b>2005</b> , 11, 2180-7	61
1101	Low level microsatellite instability may be associated with reduced cancer specific survival in sporadic stage C colorectal carcinoma. <b>2005</b> , 54, 103-8	53
1100	Gene expression profiling of microsatellite unstable and microsatellite stable endometrial cancers indicates distinct pathways of aberrant signaling. <b>2005</b> , 65, 5031-7	49
1099	5,10-methylenetetrahydrofolate reductase 677 and 1298 polymorphisms, folate intake, and microsatellite instability in colon cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2005</b> , 14, 2023-9	33
1098	Detection of hypermethylated genes in women with and without cervical neoplasia. <b>2005</b> , 97, 273-82	153
1097	High frequency of hereditary colorectal cancer in Newfoundland likely involves novel susceptibility genes. <b>2005</b> , 11, 6853-61	45
1096	Promoter hypermethylation is associated with tumor location, stage, and subsequent progression in transitional cell carcinoma. <i>Journal of Clinical Oncology</i> , <b>2005</b> , 23, 2903-10	249
1095	Evidence that both genetic instability and selection contribute to the accumulation of chromosome alterations in cancer. <b>2005</b> , 26, 923-30	35
1094	Fruits, vegetables, and hMLH1 protein-deficient and -proficient colon cancer: The Netherlands cohort study. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2005</b> , 14, 1619-25	14
1093	Down-regulation of DNA mismatch repair proteins in human and murine tumor spheroids: implications for multicellular resistance to alkylating agents. <b>2005</b> , 4, 1484-94	31
1092	The prognostic significance of K-ras, p53, and APC mutations in colorectal carcinoma. <b>2005</b> , 54, 1283-6	168

1091 CpG Island Hypermethylation of Tumor Suppressor Genes in Human Cancer. 2005, 69-84

1090	Frequent promoter methylation of tumor-related genes in sporadic and men2-associated		22
1090	pheochromocytomas. <b>2005</b> , 113, 1-7		22
1089	Inherited colorectal cancer syndromes. <b>2005</b> , 18, 150-62		4
1088	Epigenetic and chromatin modifiers as targeted therapy of hematologic malignancies. <i>Journal of Clinical Oncology</i> , <b>2005</b> , 23, 3971-93	2.2	282
1087	Genome Instability in Cancer Development. 2005,		1
1086	Association of mismatch repair deficiency with PTEN frameshift mutations in endometrial cancers and the precursors in a Japanese population. <b>2005</b> , 124, 89-96		25
1085	CHFR promoter hypermethylation in colon cancer correlates with the microsatellite instability phenotype. <b>2005</b> , 26, 1152-6		75
1084	Association between family history and mismatch repair in colorectal cancer. <b>2005</b> , 54, 636-42		12
1083	Evaluation of a 7-day continuous intravenous infusion of decitabine: inhibition of promoter-specific and global genomic DNA methylation. <i>Journal of Clinical Oncology</i> , <b>2005</b> , 23, 3897-905	2.2	121
1082	A methylation profile of in vitro immortalized human cell lines. <b>2005</b> , 26, 275		4
1081	Mucinous carcinomas of the colorectum have distinct molecular genetic characteristics. <b>2005</b> , 26, 745		3
1080	Downregulation of human kallikrein 10 (KLK10/NES1) by CpG island hypermethylation in breast, ovarian and prostate cancers. <b>2005</b> , 26, 324-36		50
1079	Microsatellite instability caused by hMLH1 promoter methylation increases with tumor progression in right-sided sporadic colorectal cancer. <b>2005</b> , 69, 354-62		13
1078	Effects of camptothecin on double-strand break repair by non-homologous end-joining in DNA mismatch repair-deficient human colorectal cancer cell lines. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 106-13	20.1	15
1077	Two modes of microsatellite instability in human cancer: differential connection of defective DNA mismatch repair to dinucleotide repeat instability. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, 1628-36	20.1	48
1076	SMAD4 as a prognostic marker in colorectal cancer. <b>2005</b> , 11, 2606-11		149
1075	The Role of Genetic Instability in the Pathogenesis and Progression of Urothelial Carcinoma. <b>2005</b> , 3, 180-188		
1074	Epigenetic therapy of cancer with 5-aza-2'-deoxycytidine (decitabine). <b>2005</b> , 32, 443-51		129

1073	Overview of cancer epigenetics. <b>2005</b> , 42, S3-8	69
1072	Decitabine in myelodysplastic syndromes. <b>2005</b> , 42, S23-31	22
1071	Tumor microsatellite instability in early onset gastric cancer. <b>2005</b> , 7, 465-77	50
1070	Analysis of promoter methylation in stool: a novel method for the detection of colorectal cancer. <b>2005</b> , 3, 142-9	98
1069	Microsatellite instability and DNA mismatch repair deficiency testing in hereditary and sporadic gastrointestinal cancers. <b>2005</b> , 25, 179-96	48
1068	Mechanisms and markers of carcinogenesis and neoplastic progression. <b>2005</b> , 5, 1317-32	3
1067	DNA methyltransferase inhibitors and the development of epigenetic cancer therapies. <b>2005</b> , 97, 1498-506	385
1066	DNA methylation and gene silencing in cancer. <b>2005</b> , 2 Suppl 1, S4-11	835
1065	Cancer epigenetics. <b>2005</b> , 14 Spec No 1, R65-76	384
1064	Screening for the Lynch syndrome (hereditary nonpolyposis colorectal cancer). <b>2005</b> , 352, 1851-60	1050
1064	Screening for the Lynch syndrome (hereditary nonpolyposis colorectal cancer). 2005, 352, 1851-60  Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. 2005, 36, 101-11	1050 75
	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the	
1063	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. <b>2005</b> , 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related	75
1063	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. <b>2005</b> , 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related cholangiocarcinoma. <b>2005</b> , 217, 213-9  Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast	75
1063 1062 1061	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. <b>2005</b> , 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related cholangiocarcinoma. <b>2005</b> , 217, 213-9  Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast cancer. <b>2005</b> , 223, 143-50  Downregulated mRNA expression of ASPP and the hypermethylation of the 5'-untranslated region	75 29 40
1063 1062 1061 1060	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. 2005, 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related cholangiocarcinoma. 2005, 217, 213-9  Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast cancer. 2005, 223, 143-50  Downregulated mRNA expression of ASPP and the hypermethylation of the 5'-untranslated region in cancer cell lines retaining wild-type p53. 2005, 579, 1587-90  PRR5 encodes a conserved proline-rich protein predominant in kidney: analysis of genomic	75 29 40 38
1063 1062 1061 1060	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. 2005, 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related cholangiocarcinoma. 2005, 217, 213-9  Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast cancer. 2005, 223, 143-50  Downregulated mRNA expression of ASPP and the hypermethylation of the 5'-untranslated region in cancer cell lines retaining wild-type p53. 2005, 579, 1587-90  PRR5 encodes a conserved proline-rich protein predominant in kidney: analysis of genomic organization, expression, and mutation status in breast and colorectal carcinomas. 2005, 85, 338-51  [HNPCC syndrome (hereditary non polyposis colon cancer): identification and management]. 2005,	75 29 40 38 23
1063 1062 1061 1060 1059 1058	Support for hMLH1 and MGMT silencing as a mechanism of tumorigenesis in the hyperplastic-adenoma-carcinoma (serrated) carcinogenic pathway in the colon. 2005, 36, 101-11  Promoter hypermethylation is a major event of hMLH1 gene inactivation in liver fluke related cholangiocarcinoma. 2005, 217, 213-9  Roles of mismatch repair proteins hMSH2 and hMLH1 in the development of sporadic breast cancer. 2005, 223, 143-50  Downregulated mRNA expression of ASPP and the hypermethylation of the 5'-untranslated region in cancer cell lines retaining wild-type p53. 2005, 579, 1587-90  PRR5 encodes a conserved proline-rich protein predominant in kidney: analysis of genomic organization, expression, and mutation status in breast and colorectal carcinomas. 2005, 85, 338-51  [HNPCC syndrome (hereditary non polyposis colon cancer): identification and management]. 2005, 26, 109-18	75 29 40 38 23

1055	Immunohistochemical analysis reveals high frequency of PMS2 defects in colorectal cancer. <b>2005</b> , 128, 1160-71	149
1054	Defective DNA mismatch repair determines a characteristic transcriptional profile in proximal colon cancers. <b>2005</b> , 129, 1047-59	43
1053	MLH1 germline epimutations as a factor in hereditary nonpolyposis colorectal cancer. <b>2005</b> , 129, 1392-9	158
1052	Methyl-CpG-binding proteins in cancer: blaming the DNA methylation messenger. <b>2005</b> , 83, 374-84	58
1051	PARP Inhibitors and Cancer Therapy. <b>2006</b> , 218-233	4
1050	Cancer Drug Resistance. <b>2006</b> ,	17
1049	Screening for Lynch syndrome (hereditary nonpolyposis colorectal cancer) among endometrial cancer patients. <b>2006</b> , 66, 7810-7	464
1048	Multifocal urothelial cancers with the mutator phenotype are of monoclonal origin and require panurothelial treatment for tumor clearance. <b>2006</b> , 175, 2323-30	51
1047	Aberrant methylation of the eyes absent 4 gene in ulcerative colitis-associated dysplasia. <b>2006</b> , 4, 212-8	38
1046	Association of JC virus T-antigen expression with the methylator phenotype in sporadic colorectal cancers. <b>2006</b> , 130, 1950-61	85
1045	Silenced tumor suppressor genes reactivated by DNA demethylation do not return to a fully euchromatic chromatin state. <b>2006</b> , 66, 3541-9	249
1044	[Promoter hypermethylation status of the mismatch repair gene hMLH1 in patients with sporadic renal cell carcinoma]. <b>2006</b> , 126, 452-4	1
1043	Mutually exclusive promoter hypermethylation patterns of hMLH1 and O6-methylguanine DNA methyltransferase in colorectal cancer. <b>2006</b> , 8, 68-75	33
1042	Mismatch repair polymorphisms and colorectal polyps: hMLH1-93G>A variant modifies risk associated with smoking. <b>2006</b> , 101, 1313-9	34
1041	New insights into the molecular pathogenesis of colorectal cancer. <b>2006</b> , 3, 439	6
1040	Right-side shift of colorectal adenomas with aging. <b>2006</b> , 63, 453-8; quiz 464	35
1039	Immunohistochemical test for MLH1 and MSH2 expression predicts clinical outcome in stage II and III colorectal cancer patients. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 2359-67	170
1038	Detection of aberrant methylation of four genes in plasma DNA for the detection of breast cancer. <i>Journal of Clinical Oncology</i> , <b>2006</b> , 24, 4262-9	205

## (2006-2006)

1037	Regulation of hMSH2 and hMLH1 expression in the human colon cancer cell line SW1116 by DNA methyltransferase 1. <b>2006</b> , 233, 124-30	22
1036	No evidence for epigenetic inactivation of fumarate hydratase in leiomyomas and leiomyosarcomas. <b>2006</b> , 235, 136-40	20
1035	Overexpression of the DNA mismatch repair factor, PMS2, confers hypermutability and DNA damage tolerance. <b>2006</b> , 244, 195-202	28
1034	Generation of mutator mutants during carcinogenesis. <b>2006</b> , 5, 294-302	41
1033	Histologic features distinguish microsatellite-high from microsatellite-low and microsatellite-stable colorectal carcinomas, but do not differentiate germline mutations from methylation of the MLH1 promoter. <b>2006</b> , 37, 831-8	43
1032	L'instabilit'des ´microsatellites dans les ´cancers du ´clon. <b>2006</b> , 21, 211-222	
1031	The length of CpG islands is associated with the distribution of Alu and L1 retroelements. <b>2006</b> , 87, 580-90	29
1030	[Identification and management of HNPCC syndrome (hereditary non polyposis colon cancer), hereditary predisposition to colorectal and endometrial adenocarcinomas]. <b>2006</b> , 54, 215-29	1
1029	New aspects in molecular diagnosis of Lynch syndrome (HNPCC). <b>2006</b> , 2, 37-49	10
1028	Chemotherapeutic implications in microsatellite unstable colorectal cancer. <b>2006</b> , 2, 51-60	62
1027	Alterations of tumor suppressor and tumor-related genes in the development and progression of gastric cancer. <b>2006</b> , 12, 192-8	172
1026	Epigenetic Mechanisms in Tumorigenesis. 2006,	
1025	ADAMTS1, CRABP1, and NR3C1 identified as epigenetically deregulated genes in colorectal tumorigenesis. <b>2006</b> , 28, 259-72	73
1024	Epidemiology of Colorectal Cancer. <b>2006</b> , 42-76	1
1023	Epimutations, inheritance and causes of aberrant DNA methylation in cancer. 2006, 4, 75-80	3
1022	Comparison of microsatellite instability, CpG island methylation phenotype, BRAF and KRAS status in serrated polyps and traditional adenomas indicates separate pathways to distinct colorectal carcinoma end points. <b>2006</b> , 30, 1491-501	406
1021	Hypermethylation of the MLH1 promoter with concomitant absence of transcript and protein occurs in small patches of crypt cells in unaffected mucosa from sporadic colorectal carcinoma. <b>2006</b> , 15, 17-23	16
1020	Effect of methylation-associated silencing of the death-associated protein kinase gene on nasopharyngeal carcinoma. <b>2006</b> , 17, 251-9	22

1019	Muir-torre syndrome with intriguing squamous lesions: a case report and review of the literature. <b>2006</b> , 28, 56-9	10
1018	Evidence for the early onset of aberrant promoter methylation in urothelial carcinoma. <b>2006</b> , 209, 336-43	66
1017	Birt-Hogg-Dub <sup>*</sup> gene mutations in human endometrial carcinomas with microsatellite instability. <b>2006</b> , 209, 328-35	7
1016	Immunohistochemistry detects mismatch repair gene defects in colorectal cancer. 2006, 8, 411-7	9
1015	A framework for the molecular classification of circulating tumor markers. <b>2001</b> , 945, 8-21	12
1014	The epigenetics of colorectal cancer. <b>2000</b> , 910, 140-53; discussion 153-5	81
1013	CIMPle origin for promoter hypermethylation in colorectal cancer?. <b>2006</b> , 38, 738-40	25
1012	Monkey see, monkey do. <b>2006</b> , 38, 740-1	1
1011	A truncating mutation of HDAC2 in human cancers confers resistance to histone deacetylase inhibition. <b>2006</b> , 38, 566-9	228
1010	Heritable germline epimutation of MSH2 in a family with hereditary nonpolyposis colorectal cancer. <b>2006</b> , 38, 1178-83	271
1009	Epigenetic gene silencing in cancer - a mechanism for early oncogenic pathway addiction?. <b>2006</b> , 6, 107-16	1372
1008	hMLH1 and MGMT inactivation as a mechanism of tumorigenesis in monoclonal gammopathies. <b>2006</b> , 19, 914-21	14
1007	Epigenetic inactivation of the candidate tumor suppressor gene HOXB13 in human renal cell carcinoma. <b>2006</b> , 25, 1733-42	66
1006	Microsatellite instability and mutation analysis of candidate genes in urothelial cell carcinomas of upper urinary tract. <b>2006</b> , 25, 2113-8	34
1005	Dual role of LOH at MMR loci in hereditary non-polyposis colorectal cancer?. <b>2006</b> , 25, 2124-30	22
1004	The fundamental role of epigenetics in hematopoietic malignancies. <b>2006</b> , 20, 1-13	174
1003	Microarray-based molecular margin methylation pattern analysis in colorectal carcinoma. <b>2006</b> , 355, 117-24	17
1002	Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer.  Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8822-7	213

1001	Molecular screening for hereditary nonpolyposis colorectal cancer in Bulgaria. <b>2006</b> , 1, 128-135		1
1000	Genomic instability in the offspring of irradiated parents: Facts and interpretations. <b>2006</b> , 42, 1116-1126		14
999	Discovery of two novel, small-molecule inhibitors of DNA methylation. <b>2006</b> , 49, 678-83		119
998	Demonstration and characterization of mutations induced by Helicobacter pylori organisms in gastric epithelial cells. <b>2006</b> , 11, 272-86		54
997	Frequency of immunohistochemical loss of mismatch repair protein in double primary cancers of the colorectum and stomach in Japan. <b>2006</b> , 49, S23-9		11
996	Microsatellite instability did not predict individual survival of unselected patients with colorectal cancer. <b>2007</b> , 22, 145-52		50
995	Hypermethylation of p14ARF promoter region and expresion of p14ARF gene product in non-small cell lung cancer. <b>2006</b> , 18, 276-281		
994	Detection of frameshift mutations of the transforming growth factor [receptor II in gastric cancers with microsatellite instability. <b>2006</b> , 3, 267-272		
993	Analysis of inactivation of hMLH1 by promoter hypermethylation and microsatellite instability in gastric carcinogenesis. <b>2006</b> , 3, 102-109		1
992	hMLH1 promoter methylation and silencing in primary endometrial cancers are associated with specific alterations in MBDs occupancy and histone modifications. <b>2006</b> , 103, 321-8		11
991	Chromatin control and cancer-drug discovery: realizing the promise. <b>2006</b> , 11, 97-109		65
990	Benzopyrene exposure disrupts DNA methylation and growth dynamics in breast cancer cells. <b>2006</b> , 216, 458-68		101
989	Mlh1-dependent suppression of specific mutations induced in vivo by the food-borne carcinogen 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP). <b>2006</b> , 594, 101-12		7
988	The 5'-end transitional CpGs between the CpG islands and retroelements are hypomethylated in association with loss of heterozygosity in gastric cancers. <b>2006</b> , 6, 180		13
987	Microsatellite instability in colorectal cancer. <b>2006</b> , 93, 395-406		193
986	Multiple genetic and epigenetic interacting mechanisms contribute to clonally selection of drug-resistant tumors: current views and new therapeutic prospective. <b>2006</b> , 207, 571-81		77
985	Promoter methylation of the secreted frizzled-related protein 1 gene SFRP1 is frequent in hepatocellular carcinoma. <b>2006</b> , 107, 579-90		95
984	BRAF mutation, CpG island methylator phenotype and microsatellite instability occur more frequently and concordantly in mucinous than non-mucinous colorectal cancer. <i>International Journal of Cancer</i> , <b>2006</b> , 118, 2765-71	7.5	111

983	Regional DNA hypermethylation and DNA methyltransferase (DNMT) 1 protein overexpression in both renal tumors and corresponding nontumorous renal tissues. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 288-96	7.5	94
982	Structure and function of the components of the human DNA mismatch repair system. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 2030-5	7.5	80
981	DNA mismatch repair as an effector for promoting phorbol ester-induced apoptotic DNA damage and cell killing: implications in tumor promotion. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 1776-84	7.5	11
980	The expression of metastasis suppressor MIM/MTSS1 is regulated by DNA methylation. <i>International Journal of Cancer</i> , <b>2006</b> , 119, 2287-93	7.5	40
979	DNA hypermethylation and partial gene silencing of human thymine- DNA glycosylase in multiple myeloma cell lines. <b>2006</b> , 1, 138-45		37
978	Reactivation of epigenetically silenced genes by DNA methyltransferase inhibitors: basic concepts and clinical applications. <b>2006</b> , 1, 7-13		69
977	DNA methylation and histone modifications in patients with cancer: potential prognostic and therapeutic targets. <b>2007</b> , 361, 25-62		50
976	Methods for Analysis of DNA Methylation. <b>2006</b> , 149-160		3
975	Identification and survival of carriers of mutations in DNA mismatch-repair genes in colon cancer. <b>2006</b> , 354, 2751-63		361
974	Key issues in the modes of action and effects of trichloroethylene metabolites for liver and kidney tumorigenesis. <b>2006</b> , 114, 1457-63		61
973	Inhibition of SIRT1 reactivates silenced cancer genes without loss of promoter DNA hypermethylation. <b>2006</b> , 2, e40		320
972	Inhibition of poly(ADP-ribose) polymerase prevents irinotecan-induced intestinal damage and enhances irinotecan/temozolomide efficacy against colon carcinoma. <b>2006</b> , 20, 1709-11		84
971	Poly(ADP-Ribosyl)ation. 2006,		6
970	Epigenetic modification of SOCS-1 differentially regulates STAT3 activation in response to interleukin-6 receptor and epidermal growth factor receptor signaling through JAK and/or MEK in head and neck squamous cell carcinomas. <b>2006</b> , 5, 8-19		109
969	Accumulation of promoter methylation suggests epigenetic progression in squamous cell carcinoma of the esophagus. <b>2006</b> , 12, 4515-22		89
968	Microsatellite instability in aberrant crypt foci from patients without concurrent colon cancer. <b>2007</b> , 28, 769-76		29
967	The high frequency of de novo promoter methylation in synchronous primary endometrial and ovarian carcinomas. <b>2006</b> , 12, 3329-36		54
966	A Cost-Effective Algorithm for Hereditary Nonpolyposis Colorectal Cancer Detection. <b>2006</b> , 125, 823-8	31	13

965	Predicting and preventing hereditary colorectal cancer. <b>2006</b> , 296, 1521-3	16
964	The malignant potential of freshly developed colorectal polyps according to age. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2006</b> , 15, 2418-21	11
963	Quantitation of promoter methylation of multiple genes in urine DNA and bladder cancer detection. <b>2006</b> , 98, 996-1004	210
962	Genetics and Epigenetics in Cancer Biology. <b>2006</b> , 25-56	1
961	CpG island methylation and histone modifications: biology and clinical significance. <b>2006</b> , 115-26	19
960	Target Discovery and Validation Reviews and Protocols. 2006,	1
959	Methylation of serum DNA is an independent prognostic marker in colorectal cancer. <b>2006</b> , 12, 7347-52	154
958	BRAF mutations and phosphorylation status of mitogen-activated protein kinases in the development of flat and depressed-type colorectal neoplasias. <b>2006</b> , 94, 311-7	12
957	Characterisation of the GRAF gene promoter and its methylation in patients with acute myeloid leukaemia and myelodysplastic syndrome. <b>2006</b> , 94, 323-32	20
956	Microsatellite instability markers for identifying early-onset colorectal cancers caused by germ-line mutations in DNA mismatch repair genes. <b>2007</b> , 13, 2865-9	26
955	Inhibition of lysine-specific demethylase 1 by polyamine analogues results in reexpression of aberrantly silenced genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 8023-8	252
954	Epigenetics and cancer: towards an evaluation of the impact of environmental and dietary factors. <b>2007</b> , 22, 91-103	271
953	CpG island methylation in a mouse model of lymphoma is driven by the genetic configuration of tumor cells. <b>2007</b> , 3, 1757-69	34
952	Comparing the DNA hypermethylome with gene mutations in human colorectal cancer. <b>2007</b> , 3, 1709-23	272
951	Mutator pathways unleashed by epigenetic silencing in human cancer. <b>2007</b> , 22, 247-53	110
950	Molecular Biology of Colon Cancer. <b>2007</b> , 1-31	
949	Priorities in colorectal cancer research: recommendations from the Gastrointestinal Scientific Leadership Council of the Coalition of Cancer Cooperative Groups. <i>Journal of Clinical Oncology</i> , 2.2 2007, 25, 2313-21	19
948	Functional characterization of pathogenic human MSH2 missense mutations in Saccharomyces cerevisiae. <b>2007</b> , 177, 707-21	73

947	EHA scientific workshop report: the role of epigenetics in hematological malignancies. 2007, 2, 71-9		10
946	Identification of DNA methylation in 3' genomic regions that are associated with upregulation of gene expression in colorectal cancer. <b>2007</b> , 2, 161-72		33
945	Epigenetic aberrations in malignant gliomas: an open door leading to better understanding and treatment. <b>2007</b> , 2, 147-50		22
944	Microsatellite instability and compromised mismatch repair gene expression during in vitro passaging of monoclonal human T lymphocytes. <b>2007</b> , 10, 145-56		16
943	Aberrant DNA methylation in non-neoplastic gastric mucosa of H. Pylori infected patients and effect of eradication. <b>2007</b> , 102, 1361-71		151
942	Reduced likelihood of metastases in patients with microsatellite-unstable colorectal cancer. <b>2007</b> , 13, 3831-9		185
941	Distinction of hereditary nonpolyposis colorectal cancer and sporadic microsatellite-unstable colorectal cancer through quantification of MLH1 methylation by real-time PCR. <b>2007</b> , 13, 3221-8		86
940	Influence of methylenetetrahydrofolate reductase gene polymorphisms C677T and A1298C on age-associated risk for colorectal cancer in a caucasian lynch syndrome population. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2007</b> , 16, 1753-9	4	17
939	Epigenetic inactivation of a cluster of genes flanking MLH1 in microsatellite-unstable colorectal cancer. <b>2007</b> , 67, 9107-16		58
938	Colon Cancer Family Registry: an international resource for studies of the genetic epidemiology of colon cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2007</b> , 16, 2331-43	4	279
937	Specific clinical and biological features characterize inflammatory bowel disease associated colorectal cancers showing microsatellite instability. <i>Journal of Clinical Oncology</i> , <b>2007</b> , 25, 4231-8	2.2	57
936	Explaining the familial colorectal cancer risk associated with mismatch repair (MMR)-deficient and MMR-stable tumors. <b>2007</b> , 13, 356-61		145
935	Identification and validation of colorectal neoplasia-specific methylation markers for accurate classification of disease. <b>2007</b> , 5, 153-63		50
934	Dietary folate intake, MTHFR genetic polymorphisms, and the risk of endometrial cancer among Chinese women. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2007</b> , 16, 281-7	4	55
933	Endometrial carcinoma: pathology and genetics. <b>2007</b> , 39, 72-87		143
932	hTERT is expressed in cancer cell lines despite promoter DNA methylation by preservation of unmethylated DNA and active chromatin around the transcription start site. <b>2007</b> , 67, 194-201		167
931	Clinicopathologic and pedigree differences in amsterdam I-positive hereditary nonpolyposis colorectal cancer families according to tumor microsatellite instability status. <i>Journal of Clinical Oncology</i> , <b>2007</b> , 25, 781-6	2.2	62
930	Cecal adenocarcinoma with prominent rhabdoid feature: report of a case with immunohistochemical, ultrastructural, and molecular analyses. <b>2007</b> , 15, 414-20		19

929	Genome-epigenome interactions in cancer. <b>2007</b> , 16 Spec No 1, R96-105	50
928	Highly methylated genes in colorectal neoplasia: implications for screening. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2007</b> , 16, 2686-96	105
927	PRDM5 identified as a target of epigenetic silencing in colorectal and gastric cancer. <b>2007</b> , 13, 4786-94	78
926	DNA methyltransferases as targets for cancer therapy. <b>2007</b> , 43, 395-422	105
925	The Role of Epigenetic Alterations in Cancer. 2007,	
924	Epigenetic inactivation of the hMLH1 gene in progression of gliomas. 2007, 16, 104-7	14
923	Carcinogenße colique, donnes fondamentales. <b>2007</b> , 2, 1-13	
922	Frequent epigenetic inactivation of chromosome 3p candidate tumor suppressor genes in gallbladder carcinoma. <b>2007</b> , 250, 100-6	42
921	Minimally invasive biomarkers for detection and staging of colorectal cancer. <b>2007</b> , 249, 87-96	50
920	Colorectal Cancer. 2007,	1
919	Heterogeneous staining for mismatch repair proteins during population-based prescreening for hereditary nonpolyposis colorectal cancer. <b>2007</b> , 9, 472-8	59
918	Colorectal cancer: a model for epigenetic tumorigenesis. <b>2007</b> , 56, 140-8	125
917	Inheritance of a cancer-associated MLH1 germ-line epimutation. <b>2007</b> , 356, 697-705	334
916	Therapeutic potential of drugs to modulate DNA repair in cancer. <b>2007</b> , 11, 783-99	25
915	Hyperplastic and serrated polyps of the colorectum. <b>2007</b> , 36, 947-68, viii	131
914	MLH1 -93G>A promoter polymorphism and the risk of microsatellite-unstable colorectal cancer. <b>2007</b> , 99, 463-74	107
913	Genetic and epigenetic alterations as biomarkers for cancer detection, diagnosis and prognosis. <b>2007</b> , 1, 26-41	134
912	mRNA/microRNA gene expression profile in microsatellite unstable colorectal cancer. <b>2007</b> , 6, 54	215

911	Epigenetic and genetic alterations in Netrin-1 receptors UNC5C and DCC in human colon cancer. <b>2007</b> , 133, 1849-57		82
910	Colorectal cancer epigenetics: the role of environmental factors and the search for molecular biomarkers. <b>2007</b> , 25, 101-54		15
909	DNA methylation in colorectal cancerimpact on screening and therapy monitoring modalities?. <b>2007</b> , 23, 51-71		47
908	Microsatellite instability and clinicopathological features in esophageal squamous cell cancer. 2007,		
907	Decreased expression of hMLH1 correlates with reduced 5-fluorouracil-mediated apoptosis in colon cancer cells. <b>2007</b> ,		
906	Genetic and epigenetic markers to identify high risk patients for multiple early gastric cancers after treatment with endoscopic mucosal resection. <b>2007</b> , 40, 203-9		7
905	Epigenetic control of tumor suppression. <b>2007</b> , 17, 295-316		29
904	Correlation between hypermethylation of the RASSF2A promoter and K-ras/BRAF mutations in microsatellite-stable colorectal cancers. <i>International Journal of Cancer</i> , <b>2007</b> , 120, 7-12	7.5	37
903	Evidence for the role of aberrant DNA methylation in the pathogenesis of Lynch syndrome adenomas. <i>International Journal of Cancer</i> , <b>2007</b> , 120, 1922-9	7·5	26
902	SFRP1 suppressed hepatoma cells growth through Wnt canonical signaling pathway. <i>International Journal of Cancer</i> , <b>2007</b> , 121, 1028-35	7.5	79
901	Novel approach for detecting global epigenetic alterations associated with tumor cell aneuploidy. <i>International Journal of Cancer</i> , <b>2007</b> , 121, 1487-93	7·5	18
900	Epigenetic drugs as pleiotropic agents in cancer treatment: biomolecular aspects and clinical applications. <b>2007</b> , 212, 330-44		107
899	Inactivation of human mutL homolog 1 and mutS homolog 2 genes in head and neck squamous cell carcinoma tumors and leukoplakia samples by promoter hypermethylation and its relation with microsatellite instability phenotype. <b>2007</b> , 109, 703-12		38
898	Left-Sided microsatellite unstable colorectal cancers show less frequent methylation of hMLH1 and CpG island methylator phenotype than right-sided ones. <b>2007</b> , 96, 611-8		12
897	Role of BRAF-V600E in the serrated pathway of colorectal tumourigenesis. 2007, 212, 124-33		76
896	5-Aza-2'-deoxycytidine-mediated reductions in G9A histone methyltransferase and histone H3 K9 di-methylation levels are linked to tumor suppressor gene reactivation. <b>2007</b> , 26, 77-90		167
895	No evidence for dual role of loss of heterozygosity in hereditary non-polyposis colorectal cancer. <b>2007</b> , 26, 2513-7		16
894	Characterization of promoter regulatory elements involved in downexpression of the DNA polymerase kappa in colorectal cancer. <b>2007</b> , 26, 3387-94		32

### (2008-2007)

893	approach. <b>2007</b> , 26, 4541-9	49
892	Assessment of MLH1 promoter methylation in relation to gene expression requires specific analysis. <b>2007</b> , 26, 7596-600	47
891	Hypermethylation of multiple genes as clonal markers in multicentric hepatocellular carcinoma. <b>2007</b> , 97, 1260-5	77
890	MLH1 germline epimutations in selected patients with early-onset non-polyposis colorectal cancer. <b>2007</b> , 71, 232-7	45
889	Hypermethylation of the COX-2 gene is a potential prognostic marker for cervical cancer. 2007, 33, 236-41	19
888	Phenotypes of invasion in sporadic colorectal carcinomas related to aberrations of the adenomatous polyposis coli (APC) gene. <b>2007</b> , 50, 318-30	29
887	Epigenetic DNA hypermethylation in cholangiocarcinoma: potential roles in pathogenesis, diagnosis and identification of treatment targets. <b>2008</b> , 28, 12-27	37
886	Dual targeting of epigenetic therapy in cancer. <b>2007</b> , 1775, 76-91	60
885	Role of nucleosomal occupancy in the epigenetic silencing of the MLH1 CpG island. 2007, 12, 432-44	168
884	DNA methylation profiling of myelodysplastic syndrome hematopoietic progenitor cells during in vitro lineage-specific differentiation. <b>2007</b> , 35, 712-23	30
883	Epigenetic considerations for endometrial cancer prevention, diagnosis and treatment. 2007, 107, 143-53	43
882	Differences between familial and sporadic forms of colorectal cancer with DNA microsatellite instability. <b>2007</b> , 16 Suppl 1, S37-42	5
881	Very high incidence of familial colorectal cancer in Newfoundland: a comparison with Ontario and 13 other population-based studies. <b>2007</b> , 6, 53-62	61
880	A single nucleotide substitution (-107C>G) in the hMLH1 promoter found in colorectal cancer population reduces transcriptional activity. <b>2007</b> , 45, 671-81	3
879	The role of chemotherapy in microsatellite unstable (MSI-H) colorectal cancer. <b>2007</b> , 22, 739-48	38
878	Subclassification of microsatellite-unstable tumors in colorectal cancer. <b>2007</b> , 3, 212-219	2
877	Age-related methylation in normal colon mucosa differs between the proximal and distal colon in patients who underwent colonoscopy. <b>2008</b> , 41, 1440-8	21
876	Estrogen receptor alpha, BRCA1, and FANCF promoter methylation occur in distinct subsets of sporadic breast cancers. <b>2008</b> , 111, 113-20	74

875	Candidate diagnostic markers and tumor suppressor genes for adrenocortical carcinoma by expression profile of genes on chromosome 11q13. <b>2008</b> , 32, 873-81		32
874	Significance of serrated polyps of the colon. <b>2008</b> , 10, 490-8		43
873	Identifying Lynch syndrome: we are all responsible. <b>2008</b> , 51, 1750-6		20
872	Proximal colon cancer in patients aged 51-60 years of age should be tested for microsatellites instability. A comment on the Revised Bethesda Guidelines. <b>2008</b> , 23, 801-6		13
871	Predictive and prognostic value of microsatellite instability in patients with advanced colorectal cancer treated with a fluoropyrimidine and oxaliplatin containing first-line chemotherapy. A report of the AIO Colorectal Study Group. <b>2008</b> , 23, 1033-9		58
870	Constitutional mismatch repair-deficiency syndrome: have we so far seen only the tip of an iceberg?. <b>2008</b> , 124, 105-22		220
869	Coexisting somatic promoter hypermethylation and pathogenic MLH1 germline mutation in Lynch syndrome. <b>2008</b> , 214, 10-6		56
868	Hypermethylation status of APC inversely correlates with the presence of submucosal invasion in laterally spreading colorectal tumors. <b>2008</b> , 47, 1-8		11
867	Poorly differentiated colorectal adenocarcinomas show higher rates of microsatellite instability and promoter methylation of p16 and hMLH1: a study matched for T classification and tumor location. <b>2008</b> , 97, 278-83		10
866	Expression of mismatch repair proteins, hMLH1/hMSH2, in non-small cell lung cancer tissues and its clinical significance. <b>2008</b> , 98, 377-83		13
865	Classification of ambiguous mutations in DNA mismatch repair genes identified in a population-based study of colorectal cancer. <b>2008</b> , 29, 367-74		61
864	MLH1 -93G>A promoter polymorphism and risk of mismatch repair deficient colorectal cancer. <i>International Journal of Cancer</i> , <b>2008</b> , 123, 2456-9	7.5	43
863	Tandem repeat mutation, global DNA methylation, and regulation of DNA methyltransferases in cultured mouse embryonic fibroblast cells chronically exposed to chemicals with different modes of action. <b>2008</b> , 49, 26-35		30
862	Redundant DNA methylation in colorectal cancers of Lynch-syndrome patients. <b>2008</b> , 47, 906-14		15
861			
	Cost analysis of biomarker testing for mismatch repair deficiency in node-positive colorectal cancer. <b>2008</b> , 95, 868-75		17
860			17
	cancer. 2008, 95, 868-75  Frequent microsatellite instability in non-Hodgkin lymphomas irresponsive to chemotherapy. 2008,		

# (2008-2008)

857	Hypoxia causes downregulation of mismatch repair system and genomic instability in stem cells. <b>2008</b> , 26, 2052-62	70
856	Mechanisms and functions of DNA mismatch repair. <b>2008</b> , 18, 85-98	832
855	Preferential loss of mismatch repair function in refractory and relapsed acute myeloid leukemia: potential contribution to AML progression. <b>2008</b> , 18, 281-9	26
854	Features of trinucleotide repeat instability in vivo. <b>2008</b> , 18, 198-213	114
853	Further evidence for heritability of an epimutation in one of 12 cases with MLH1 promoter methylation in blood cells clinically displaying HNPCC. <b>2008</b> , 16, 804-11	85
852	MethyQESD, a robust and fast method for quantitative methylation analyses in HNPCC diagnostics using formalin-fixed and paraffin-embedded tissue samples. <b>2008</b> , 88, 1367-75	24
851	Differences and evolution of the methods for the assessment of microsatellite instability. <b>2008</b> , 27, 6313-21	83
850	Microsatellite instability due to hMLH1 deficiency is associated with increased cytotoxicity to irinotecan in human colorectal cancer cell lines. <b>2008</b> , 99, 1607-12	70
849	Genetic and epigenetic changes in aberrant crypt foci and serrated polyps. 2008, 99, 1071-6	26
848	Ovarian cancer risk is associated with a common variant in the promoter sequence of the mismatch repair gene MLH1. <b>2008</b> , 109, 384-7	20
847	Promoter methylation inhibits BRD7 expression in human nasopharyngeal carcinoma cells. <b>2008</b> , 8, 253	33
846	Common germline MDR1/ABCB1 functional polymorphisms and haplotypes modify susceptibility to colorectal cancers with high microsatellite instability. <b>2008</b> , 183, 28-34	29
845	Epigenetic drivers and genetic passengers on the road to cancer. <b>2008</b> , 642, 1-13	114
844	DNA methylation reprogramming in the germ line. <b>2008</b> , 626, 1-15	28
843	Epigenetic gene regulation in cancer. <b>2008</b> , 61, 247-67	69
842	Systems biotechnology of mammalian cell factories. <b>2008</b> , 7, 95-110	67
841	Hypermethylated MAL gene - a silent marker of early colon tumorigenesis. <b>2008</b> , 6, 13	38
840	Genomic and epigenetic instability in colorectal cancer pathogenesis. <b>2008</b> , 135, 1079-99	666

839	An inactivating mutation in HDAC2 leads to dysregulation of apoptosis mediated by APAF1. <b>2008</b> , 135, 1654-1664.e2		42
838	Immunohistochemistry versus microsatellite instability testing for screening colorectal cancer patients at risk for hereditary nonpolyposis colorectal cancer syndrome. Part II. The utility of microsatellite instability testing. <b>2008</b> , 10, 301-7		141
837	Hypermethylation analysis of mismatch repair genes (hmlh1 and hmsh2) in locally advanced breast cancers in Indian women. <b>2008</b> , 39, 672-80		15
836	Germinal center B-cell-associated DNA hypomethylation at transcriptional regions of the AID gene. <b>2008</b> , 45, 1712-9		20
835	A microRNA DNA methylation signature for human cancer metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 13556-61	11.5	890
834	Associations of dietary methyl donor intake with MLH1 promoter hypermethylation and related molecular phenotypes in sporadic colorectal cancer. <b>2008</b> , 29, 1765-73		74
833	A prospective, multicenter, population-based study of BRAF mutational analysis for Lynch syndrome screening. <b>2008</b> , 6, 206-14		71
832	A Phase II Clinical Trial of Oral Valproic Acid in Patients with Castration-Resistant Prostate Cancers Using an Intensive Biomarker Sampling Strategy. <b>2008</b> , 1, 141-7		28
831	Syndromic colon cancer: lynch syndrome and familial adenomatous polyposis. 2008, 37, 47-72, vi		25
830	Microsatellite instability and the association with plasma homocysteine and thymidylate synthase in colorectal cancer. <b>2008</b> , 26, 583-9		10
829	Senescence-dependent MutS alpha dysfunction attenuates mismatch repair. <b>2008</b> , 6, 978-89		17
828	Integrated analysis of chromosomal, microsatellite and epigenetic instability in colorectal cancer identifies specific associations between promoter methylation of pivotal tumour suppressor and DNA repair genes and specific chromosomal alterations. <b>2008</b> , 29, 434-9		54
827	MLH1 promoter germline-methylation in selected probands of Chinese hereditary non-polyposis colorectal cancer families. <b>2008</b> , 14, 7329-34		17
826	Expression of the hMLH1 gene is a possible predictor for the clinical response to 5-fluorouracil after a surgical resection in colorectal cancer. <b>2008</b> ,		
825	Epigenetics of cancer progression. <b>2008</b> , 9, 215-34		73
824	Application of DNA methylation biomarkers for endometrial cancer management. <b>2008</b> , 8, 607-16		23
823	Molecular characterization of MSI-H colorectal cancer by MLHI promoter methylation, immunohistochemistry, and mismatch repair germline mutation screening. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2008</b> , 17, 3208-15	4	171
822	High prevalence of Foxp3 and IL17 in MMR-proficient colorectal carcinomas. <b>2008</b> , 57, 772-9		159

821 [Lynch syndrome I: a case report]. **2008**, 61, 79-82

920	Principles of Molecular Oncology. <b>2008</b> ,	-
820	Principles of Motecular Officology. 2006,	1
819	ESR1 promoter hypermethylation does not predict atypia in RPFNA nor persistent atypia after 12 months tamoxifen chemoprevention. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2008</b> , 17, 1884-90 <sup>4</sup>	10
818	Genetic instability caused by loss of MutS homologue 3 in human colorectal cancer. <b>2008</b> , 68, 8465-72	118
817	Innovative Leukemia and Lymphoma Therapy. 2008,	
816	Genetic clustering of clear cell renal cell carcinoma based on array-comparative genomic hybridization: its association with DNA methylation alteration and patient outcome. <b>2008</b> , 14, 5531-9	44
815	Hereditary Gynecologic Cancer. 2008,	2
814	Epigenetic markers in human gliomas: prospects for therapeutic intervention. 2008, 8, 1475-96	4
813	[Hereditary nonpolyposis colorectal carcinoma: state of the art]. 2008, 133, 1690-5	2
812	Genetic classification of ovarian carcinoma based on microsatellite analysis: Relationship to clinicopathological features and patient survival. <b>2008</b> ,	1
811	Chromatin remodeling agents for cancer therapy. <b>2008</b> , 3, 192-203	16
810	Colorectal Cancer âlıncreased Multidimensional Understanding of the Molecular Genesis. <b>2008</b> , 4, 243-252	1
809	Cancer Genomics. <b>2008</b> , 267-282	
808	Mutation rates of TGFBR2 and ACVR2 coding microsatellites in human cells with defective DNA mismatch repair. <i>PLoS ONE</i> , <b>2008</b> , 3, e3463	22
807	Inhibition of DNA repair as a therapeutic target. <b>2008</b> , 284-304	
806	Loss of Heterozygosity Combined with Promoter Hypermethylation, the Main Mechanism of Human MutL Homolog (hMLH1) Gene Inactivation in Non-Small Cell Lung Cancer in a Chinese Population. <b>2009</b> , 95, 488-494	9
805	Analysis of candidate target genes for mononucleotide repeat mutation in microsatellite instability-high (MSI-H) endometrial cancer. <b>2009</b> , 35, 977-82	13
804	Azacitidine: A Review of its Use in the Management of Myelodysplastic Syndromes. <b>2009</b> , 1, CMT.S1163	

803	Avalia® da express® tecidual do gene de reparo MLH1 e dos n©eis de dano oxidativo ao DNA em doentes com cBcer colorretal. <b>2009</b> , 29, 303-313		3
802	Distinct high-profile methylated genes in colorectal cancer. <i>PLoS ONE</i> , <b>2009</b> , 4, e7012	3.7	111
801	Microsatellite instability at tetranucleotide repeats in sporadic colorectal cancer in Japan. 2009, 23,		1
800	Label-free analysis of DNA methylation using optofluidic ring resonators. <b>2009</b> , 2009, 2760-2		
799	Differential antineoplastic effects of butyrate in cells with and without a functioning DNA mismatch repair. <b>2010</b> , 62, 105-15		13
798	Distinct BRAF (V600E) and KRAS mutations in high microsatellite instability sporadic colorectal cancer in African Americans. <b>2009</b> , 15, 1155-61		57
797	A tumor-protective role for human kallikrein-related peptidase 6 in breast cancer mediated by inhibition of epithelial-to-mesenchymal transition. <b>2009</b> , 69, 3779-87		73
796	Pharmacologic unmasking of epigenetically silenced genes in breast cancer. <b>2009</b> , 15, 1184-91		54
795	Chromosomally and microsatellite stable colorectal carcinomas without the CpG island methylator phenotype in a molecular classification. <b>2009</b> ,		6
794	Epigenetic downregulation of the DNA repair gene MED1/MBD4 in colorectal and ovarian cancer. <b>2009</b> , 8, 94-100		34
793	Immunohistochemistry staining for the mismatch repair proteins in the clinical care of patients with colorectal cancer. <b>2009</b> , 11, 812-7		41
792	Clinical implications of microsatellite instability and MLH1 gene inactivation in sporadic insulinomas. <b>2009</b> , 94, 3448-57		38
791	Implications of familial colorectal cancer risk profiles and microsatellite instability status. <i>Journal of Clinical Oncology</i> , <b>2009</b> , 27, 2238-44	2.2	27
790	DNA Methylation in Colorectal Cancer: Multiple Facets of Tumorigenesis. <b>2009</b> , 73-95		
789	Comprehensive molecular analysis of mismatch repair gene defects in suspected Lynch syndrome (hereditary nonpolyposis colorectal cancer) cases. <b>2009</b> , 69, 7053-61		35
788	Gene expression patterns in mismatch repair-deficient colorectal cancers highlight the potential therapeutic role of inhibitors of the phosphatidylinositol 3-kinase-AKT-mammalian target of rapamycin pathway. <b>2009</b> , 15, 2829-39		52
787	Epigenetic deregulation of DNA repair and its potential for therapy. <b>2009</b> , 15, 5026-31		49
786	Inactivation of RASSF1A, RARbeta2 and DAP-kinase by promoter methylation correlates with lymph node metastasis in nasopharyngeal carcinoma. <b>2009</b> , 8, 444-51		46

### (2009-2009)

785	An interstitial deletion at 3p21.3 results in the genetic fusion of MLH1 and ITGA9 in a Lynch syndrome family. <b>2009</b> , 15, 762-9	12
7 <sup>8</sup> 4	DNA mismatch binding and antiproliferative activity of rhodium metalloinsertors. <b>2009</b> , 131, 2359-66	64
783	Microsatellite instability-low colorectal cancer acquires a KRAS mutation during the progression from Dukes' A to Dukes' B. <b>2009</b> , 30, 494-9	58
782	Microsatellite instability in colorectal cancer and association with thymidylate synthase and dihydropyrimidine dehydrogenase expression. <b>2009</b> , 9, 25	26
781	Promoter methylation of SFRPs gene family in cervical cancer. <b>2009</b> , 112, 301-6	51
780	Current and emerging trends in Lynch syndrome identification in women with endometrial cancer. <b>2009</b> , 114, 128-34	75
779	A MLH1 polymorphism that increases cancer risk is associated with better outcome in sporadic colorectal cancer. <b>2009</b> , 193, 71-7	21
778	Epigenetics and cancer treatment. <b>2009</b> , 625, 131-42	167
777	Microsatellite instability, MLH1 promoter methylation, and BRAF mutation analysis in sporadic colorectal cancers of different ethnic groups in Israel. <b>2009</b> , 115, 760-9	31
776	Prognostic implications of CpG island hypermethylator phenotype in colorectal cancers. <b>2009</b> , 455, 485-94	111
775	Recent advances in colorectal cancer genetics and diagnostics. <b>2009</b> , 69, 45-55	39
774	Screening for germline mutations of MLH1, MSH2, MSH6 and PMS2 genes in Slovenian colorectal cancer patients: implications for a population specific detection strategy of Lynch syndrome. <b>2009</b> , 8, 421-9	19
773	Methylation of estrogen receptor 1 in colorectal adenomas is not age-dependent, but is correlated with K-ras mutation. <b>2009</b> , 100, 1005-11	6
772	Plenary lectures. <b>2009</b> , 32, 1-10	35
771	Tumor-infiltrating lymphocytes in colorectal cancers with microsatellite instability are correlated with the number and spectrum of frameshift mutations. <b>2009</b> , 22, 1186-95	115
770	Heritable somatic methylation and inactivation of MSH2 in families with Lynch syndrome due to deletion of the 3' exons of TACSTD1. <b>2009</b> , 41, 112-7	563
769	A TARBP2 mutation in human cancer impairs microRNA processing and DICER1 function. 2009, 41, 365-70	317
768	Genetic prognostic and predictive markers in colorectal cancer. <b>2009</b> , 9, 489-99	517

767	DLEC1 is a functional 3p22.3 tumour suppressor silenced by promoter CpG methylation in colon and gastric cancers. <b>2009</b> , 100, 663-9	50
766	The context and potential of epigenetics in oncology. <b>2009</b> , 100, 571-7	84
765	Differential expression of hMLH1 in sporadic human colorectal cancer tumors and distant metastases. <b>2009</b> , 117, 839-48	2
764	MGMT and MLH1 promoter methylation versus APC, KRAS and BRAF gene mutations in colorectal cancer: indications for distinct pathways and sequence of events. <b>2009</b> , 20, 1216-22	46
763	Enzymatic methylation of DNA in cultured human cells studied by stable isotope incorporation and mass spectrometry. <b>2009</b> , 22, 1060-8	12
762	Constitutional (germline) MLH1 epimutation as an aetiological mechanism for hereditary non-polyposis colorectal cancer. <b>2009</b> , 46, 793-802	98
761	Sebaceous lesions and their associated syndromes: part II. <b>2009</b> , 61, 563-78; quiz 579-80	54
760	Molecular origins of cancer: Molecular basis of colorectal cancer. <b>2009</b> , 361, 2449-60	1331
759	DNA methylation changes in prostate cancer: current developments and future clinical implementation. <b>2009</b> , 9, 243-57	53
758	Alteration of transcriptional profile in human bronchial epithelial cells induced by cigarette smoke condensate. <b>2009</b> , 190, 23-31	13
757	Methylation and protein expression of DNA repair genes: association with chemotherapy exposure and survival in sporadic ovarian and peritoneal carcinomas. <b>2009</b> , 8, 48	77
756	Molecular, Clinical and Environmental Toxicology. 2009,	10
755	Utility of gene promoter methylation in prediction of response to platinum-based chemotherapy in epithelial ovarian cancer (EOC). <b>2009</b> , 27, 877-84	38
754	Genetics of Colorectal Cancer. 2009,	4
753	WITHDRAWN: Classification of colorectal carcinoma obtained from the combination of DNA ploidy and genetic alterations serves as a significant prognostic factor. <b>2009</b> , 1	1
752	Effect of DNA repair host factors on temozolomide or dacarbazine melanoma treatment in Caucasians. <b>2009</b> , 19, 760-9	5
751	Label-free DNA methylation analysis using the optofluidic ring resonator sensor. 2009,	
75°	Colon cancer in a 16-year-old girl: signet-ring cell carcinoma without microsatellite instabilityan unusual suspect. <b>2009</b> , 48, 110-4	2

### (2010-2009)

749	Evolving views of DNA replication (in)fidelity. <b>2009</b> , 74, 91-101	115
748	Analysis of a correlation between the BRAF V600E mutation and abnormal DNA mismatch repair in patients with sporadic endometrial cancer. <b>2009</b> , 34, 1541-7	19
747	Efficient molecular screening of Lynch syndrome by specific 3' promoter methylation of the MLH1 or BRAF mutation in colorectal cancer with high-frequency microsatellite instability. <b>2009</b> , 21, 1577-83	20
746	Colorectal cancer susceptibility associated with the hMLH1 V384D variant. <b>2009</b> , 2, 887-91	11
745	Colorectal cancer due to deficiency in DNA mismatch repair function: a review. 2009, 16, 405-17	110
744	The 10q25.3-26.1 G protein-coupled receptor gene GPR26 is epigenetically silenced in human gliomas. <b>2009</b> , 35, 1123-31	8
743	Aberrant DNA methylation in malignant melanoma. <b>2010</b> , 20, 253-65	63
742	Cytosine methyltransferases as tumor markers. <b>2010</b> , 11, 568-77	3
741	Strategies for detecting genomic DNA methylation: a survey of US patents. 2010, 4, 79-85	3
740	hMLH1 promoter methylation and JC virus T antigen presence in the tumor tissue of colorectal cancer Israeli patients of different ethnic groups. <b>2010</b> , 22, 938-41	10
739	Absence of hMLH1 or hMSH2 expression as a stage-dependent prognostic factor in sporadic colorectal cancers. <b>2010</b> , 17, 2839-46	10
738	Clinical impact of microsatellite instability in colon cancer following adjuvant FOLFOX therapy. <b>2010</b> , 66, 659-67	67
737	Association of polymorphisms MTHFR C677T and A1298C with risk of colorectal cancer, genetic and epigenetic characteristic of tumors, and response to chemotherapy. <b>2010</b> , 25, 141-51	45
736	Microsatellite instability of the colorectal carcinoma can be predicted in the conventional pathologic examination. A prospective multicentric study and the statistical analysis of 615 cases consolidate our previously proposed logistic regression model. <b>2010</b> , 456, 533-41	14
735	The effect of DNA mismatch repair (MMR) status on oxaliplatin-based first-line chemotherapy as in recurrent or metastatic colon cancer. <b>2010</b> , 27, 1277-85	22
734	DNA methylation markers in colorectal cancer. <b>2010</b> , 29, 181-206	224
733	Selection of patients with germline MLH1 mutated Lynch syndrome by determination of MLH1 methylation and BRAF mutation. <b>2010</b> , 9, 167-72	42
732	Mismatch repair protein expression and colorectal cancer in Hispanics from Puerto Rico. <b>2010</b> , 9, 155-66	29

731	MYH biallelic mutation can inactivate the two genetic pathways of colorectal cancer by APC or MLH1 transversions. <b>2010</b> , 9, 589-94	29
730	Genotype to phenotype: analyzing the effects of inherited mutations in colorectal cancer families. <b>2010</b> , 693, 32-45	44
729	Methods for genome-wide analysis of DNA methylation in intestinal tumors. <b>2010</b> , 693, 77-83	8
728	Detection of genetic alterations in hereditary colorectal cancer screening. <b>2010</b> , 693, 19-31	29
727	Epigenetic inheritance in mammals: evidence for the impact of adverse environmental effects. <b>2010</b> , 39, 61-5	117
726	Taiwan hospital-based detection of Lynch syndrome distinguishes 2 types of microsatellite instabilities in colorectal cancers. <b>2010</b> , 147, 720-8	24
725	Molecular targets of epigenetic regulation and effectors of environmental influences. <b>2010</b> , 245, 378-93	94
724	A review on the molecular diagnostics of Lynch syndrome: a central role for the pathology laboratory. <b>2010</b> , 14, 181-97	54
723	Simulated microgravity-induced epigenetic changes in human lymphocytes. <b>2010</b> , 111, 123-9	42
722	Epigenetics and Tumorigenesis. <b>2010</b> , 179-194	O
721	What an epigenome remembers. <b>2010</b> , 32, 659-68	46
720	Aberrant methylation of DNA mismatch repair genes in elderly patients with sporadic gastric carcinoma: A comparison with younger patients. <b>2010</b> , 101, 28-35	26
719	Adenoma incidence after resection of sporadic colorectal cancer with microsatellite instability. <b>2010</b> , 101, 577-81	5
718	Aberrant DNA methylation occurs in colon neoplasms arising in the azoxymethane colon cancer model. <b>2010</b> , 49, 94-103	33
717	Epigenetic modifications in AML and MDS. <b>2010</b> , 34, 139-40	5
716	Mismatch repair and the downstream target genes, PAX5 and Ikaros, in childhood acute lymphoblastic leukemia. <b>2010</b> , 34, 1098-102	5
715	Label-free DNA methylation analysis using opto-fluidic ring resonators. <b>2010</b> , 26, 1016-20	45

# (2010-2010)

713	Expression of DNA mismatch repair proteins and MSH2 polymorphisms in nonmelanoma skin cancers of organ transplant recipients. <b>2010</b> , 162, 732-42		10
712	Flanking sequence specificity determines coding microsatellite heteroduplex and mutation rates with defective DNA mismatch repair (MMR). <b>2010</b> , 29, 2172-80		13
711	CpG island hypermethylation-associated silencing of non-coding RNAs transcribed from ultraconserved regions in human cancer. <b>2010</b> , 29, 6390-401		158
710	Semiquantitative assessment of immunohistochemistry for mismatch repair proteins in Lynch syndrome. <b>2010</b> , 56, 331-44		24
709	Structural and functional features of the 5-methylcytosine distribution in the eukaryotic genome. <b>2010</b> , 44, 171-185		9
708	Hypermethylation downregulates Runx3 gene expression and its restoration suppresses gastric epithelial cell growth by inducing p27 and caspase3 in human gastric cancer. <b>2010</b> , 25, 823-31		41
707	Epigenomics in cancer management. <b>2010</b> , 255		38
706	Current concepts in the pathology and epigenetics of endometrial carcinoma. <b>2010</b> , 42, 613-7		15
705	Somatic hypermethylation of MSH2 is a frequent event in Lynch Syndrome colorectal cancers. <b>2010</b> , 70, 3098-108		146
704	Case-control study of overweight, obesity, and colorectal cancer risk, overall and by tumor microsatellite instability status. <b>2010</b> , 102, 391-400		133
703	Hereditary Colorectal Cancer. 2010,		
702	DNA mismatch repair and adjuvant chemotherapy in sporadic colon cancer. <b>2010</b> , 7, 174-7		55
701	Clinical relevance of microsatellite instability in colorectal cancer. <i>Journal of Clinical Oncology</i> , <b>2010</b> , 28, 3380-7	2.2	220
700	Inheritance of epigenetic aberrations (constitutional epimutations) in cancer susceptibility. <b>2010</b> , 70, 201-43		40
699	Modulation of mismatch repair and genomic stability by miR-155. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 6982-7	11.5	267
698	Current hypotheses on how microsatellite instability leads to enhanced survival of Lynch Syndrome patients. <b>2010</b> , 2010, 170432		46
697	A ten markers panel provides a more accurate and complete microsatellite instability analysis in mismatch repair-deficient colorectal tumors. <b>2010</b> , 6, 49-61		19
696	Role of histone modifications and DNA methylation in the regulation of O6-methylguanine-DNA methyltransferase gene expression in human stomach cancer cells. <b>2010</b> , 28, 331-9		11

695	Oxidative stress and DNA methylation in prostate cancer. <b>2010</b> , 2010, 302051	105
694	DNA methylation in endometrial cancer. <b>2010</b> , 5, 491-8	64
693	DNA demethylating antineoplastic strategies: a comparative point of view. <b>2010</b> , 1, 197-209	28
692	Characterization of rectal, proximal and distal colon cancers based on clinicopathological, molecular and protein profiles. <b>2010</b> , 37, 707-18	138
691	Enhanced growth inhibition by combined DNA methylation/HDAC inhibitors in lung tumor cells with silenced CDKN2A. <b>2010</b> , 37, 963-71	10
690	Cyclin E and histone H3 levels are regulated by 5-fluorouracil in a DNA mismatch repair-dependent manner. <b>2010</b> , 10, 1147-56	9
689	A novel and rapid method of determining the effect of unclassified MLH1 genetic variants on differential allelic expression. <b>2010</b> , 12, 757-64	8
688	Molecular Testing in Colorectal Carcinoma. <b>2010</b> , 3, 429-45	1
687	Epigenetic drivers of genetic alterations. <b>2010</b> , 70, 309-23	47
686	Epigenetic alterations as cancer diagnostic, prognostic, and predictive biomarkers. <b>2010</b> , 71, 125-76	69
685	Polymorphisms in genes involved in folate metabolism and plasma DNA methylation in colorectal cancer patients. <b>2010</b> , 25,	4
684	Epigenetics of Colorectal Cancer. <b>2010</b> , 101-125	
683	Novel methylation panel for the early detection of colorectal tumors in stool DNA. <b>2010</b> , 9, 168-76	52
682	The Role of the Epigenome in Human Cancers. <b>2010</b> , 471-486	
681	Microsatellite instability with promoter methylation and silencing of hMLH1 can regionally occur during progression of gastric carcinoma. <b>2010</b> , 297, 244-51	30
680	Microsatellite instability in colorectal cancer-the stable evidence. <b>2010</b> , 7, 153-62	522
679	Molecular markers to individualize adjuvant therapy for colon cancer. <b>2010</b> , 7, 318-25	54
678	Development of sporadic microsatellite instability in colorectal tumors involves hypermethylation at methylated-in-tumor loci in adenoma. <b>2010</b> , 177, 2347-56	12

# (2011-2010)

677	Methylation analysis of MLH1 improves the selection of patients for genetic testing in Lynch syndrome. <b>2010</b> , 12, 498-504	52
676	Epigenetic changes in the myelodysplastic syndrome. <b>2010</b> , 24, 317-30	80
675	Epigenetics of Aging. <b>2010</b> ,	4
674	KRAS signaling pathway alterations in microsatellite unstable gastrointestinal cancers. <b>2010</b> , 109, 123-43	10
673	DNA methylation profiling in acute myeloid leukemia: from recent technological advances to biological and clinical insights. <b>2010</b> , 6, 1415-31	15
672	Capillary Electrophoresis. <b>2010</b> , 59-73	
671	Insights into the role of DNA methylation in disease through the use of mouse models. <b>2010</b> , 3, 290-7	28
670	Role of Histone Modifications and DNA Methylation in the Regulation of O6-Methylguanine-DNA Methyltransferase Gene Expression in Human Stomach Cancer Cells. <b>2010</b> , 28, 331-339	19
669	Adjuvant Treatment and Predictors of Response in Colon Cancer. 2011, 22, 131-136	
668	Selected Topics in the Molecular Pathology of Endometrial Carcinoma. <b>2011</b> , 4, 131-47	1
667	Colorectal cancer epigenetics: complex simplicity. <i>Journal of Clinical Oncology</i> , <b>2011</b> , 29, 1382-91 2.2	158
666	Cancer epigenetics: linking basic biology to clinical medicine. <b>2011</b> , 21, 502-17	223
665	Genome-wide epigenetic modifications in cancer. <b>2011</b> , 67, 25-49	35
664	DNA methylation changes in cancer. <b>2011</b> , 101, 447-57	15
663	Epigenetic Alteration by DNA Promoter Hypermethylation of Genes Related to Transforming Growth Factor-[[TGF-]]Signaling in Cancer. <i>Cancers</i> , <b>2011</b> , 3, 982-93	11
662	Genetic Epidemiology. <b>2011</b> ,	2
661	Unraveling the genetics of cancer: genome sequencing and beyond. <b>2011</b> , 12, 407-30	73
660	Genetic instability in cancer. <b>2011</b> ,	1

Stool and Blood Sampling for Early Detection of Colorectal Cancer. **2011**, 93-105

658	Hyperplastic polyps are innocuous lesions in hereditary nonpolyposis colorectal cancers. <b>2011</b> , 2011, 653163		2
657	Chromosome 3 anomalies investigated by genome wide SNP analysis of benign, low malignant potential and low grade ovarian serous tumours. <i>PLoS ONE</i> , <b>2011</b> , 6, e28250	3.7	69
656	Clinical significance of UNC5B expression in colorectal cancer. <b>2012</b> , 40, 209-16		32
655	Effect of classification based on combination of mutation and methylation in colorectal cancer prognosis. <b>2011</b> , 25, 789-94		42
654	Identification of GABRA1 and LAMA2 as new DNA methylation markers in colorectal cancer. <b>2012</b> , 40, 889-98		16
653	Interpretation of genetic testing for lynch syndrome in patients with putative familial colorectal cancer. <b>2011</b> , 9, 1311-20		7
652	Epigenetic mechanisms in senescence, immortalisation and cancer. <b>2011</b> , 86, 443-55		13
651	Body mass index in early adulthood and colorectal cancer risk for carriers and non-carriers of germline mutations in DNA mismatch repair genes. <b>2011</b> , 105, 162-9		40
650	Reactive oxygen species (ROS)induced genetic and epigenetic alterations in human carcinogenesis. <b>2011</b> , 711, 167-73		361
649	Dissecting DNA hypermethylation in cancer. <b>2011</b> , 585, 2078-86		58
648	Dominantly inherited constitutional epigenetic silencing of MLH1 in a cancer-affected family is linked to a single nucleotide variant within the 5'UTR. <b>2011</b> , 20, 200-13		136
647	MLH1 promoter methylation, diet, and lifestyle factors in mismatch repair deficient colorectal cancer patients from EPIC-Norfolk. <b>2011</b> , 63, 1000-10		26
646	Epigenomic analysis of aberrantly methylated genes in colorectal cancer identifies genes commonly affected by epigenetic alterations. <b>2011</b> , 18, 2338-47		121
645	Epigenetic variation. <b>2011</b> , 713, 185-97		
644	Promoter methylation status of hMLH1, hMSH2, and MGMT genes in colorectal cancer associated with adenoma-carcinoma sequence. <b>2011</b> , 396, 1017-26		27
643	Microsatellite instability in colorectal cancer: from molecular oncogenic mechanisms to clinical implications. <b>2011</b> , 34, 155-76		42
642	Association between hMLH1 hypermethylation and JC virus (JCV) infection in human colorectal cancer (CRC). <i>Clinical Epigenetics</i> , <b>2011</b> , 2, 1-5	7.7	8

641	Gene expression of the mismatch repair gene MSH2 in primary colorectal cancer. <b>2011</b> , 32, 977-83	6
640	Distinct DNA methylation epigenotypes in bladder cancer from different Chinese sub-populations and its implication in cancer detection using voided urine. <b>2011</b> , 4, 45	34
639	Epigenetics, Nutrition, and Cancer. <b>2011</b> , 127-143	
638	Preinvasive colorectal lesion transcriptomes correlate with endoscopic morphology (polypoid vs. nonpolypoid). <b>2011</b> , 3, 334-47	28
637	Intensity-dependent constitutional MLH1 promoter methylation leads to early onset of colorectal cancer by affecting both alleles. <b>2011</b> , 50, 178-85	18
636	Evidence for an hMSH3 defect in familial hamartomatous polyps. <b>2011</b> , 117, 492-500	19
635	The role of epigenetic transcription repression and DNA methyltransferases in cancer. <b>2011</b> , 117, 677-87	78
634	Relative role of methylator and tumor suppressor pathways in ulcerative colitis-associated colon cancer. <b>2011</b> , 17, 1966-70	29
633	De novo constitutional MLH1 epimutations confer early-onset colorectal cancer in two new sporadic Lynch syndrome cases, with derivation of the epimutation on the paternal allele in one.  7.5  International Journal of Cancer, 2011, 128, 869-78	68
632	MSI phenotype and MMR alterations in familial and sporadic gastric cancer. <i>International Journal of Cancer</i> , <b>2011</b> , 128, 1606-13	46
631	Sessile serrated adenomas and classical adenomas: an epigenetic perspective on premalignant neoplastic lesions of the gastrointestinal tract. <i>International Journal of Cancer</i> , <b>2011</b> , 129, 1889-98	41
630	Prognostic and predictive impact of DNA mismatch repair in the management of colorectal cancer. <b>2011</b> , 7, 467-74	18
629	Moving closer to a prognostic DNA methylation signature in colon cancer. <b>2011</b> , 17, 1215-7	13
628	Alterations of copy number of methylation pattern in mismatch repair genes by methylation specific-multiplex ligation-dependent probe amplification in cases of colon cancer. <b>2011</b> , 14, 25-34	
627	Epigenetics of kidney cancer and bladder cancer. <b>2011</b> , 3, 19-34	45
626	[HNPCC (hereditary non-polyposis colorectal cancer) or Lynch syndrome: a syndrome related to a failure of DNA repair system]. <b>2011</b> , 98, 323-36	4
625	The association between MLH1 -93 G>A polymorphism of DNA mismatch repair and cancer susceptibility: a meta-analysis. <b>2011</b> , 26, 667-73	13
624	Epigenetic changes of DNA repair genes in cancer. <b>2011</b> , 3, 51-8	134

623	Hypoxia-induced epigenetic regulation and silencing of the BRCA1 promoter. <b>2011</b> , 31, 3339-50	102
622	Lynch syndrome. <b>2011</b> , 54, 199-214	22
621	DNMT1 deficiency triggers mismatch repair defects in human cells through depletion of repair protein levels in a process involving the DNA damage response. <b>2011</b> , 20, 3241-55	50
620	Inactivation of COX-2, HMLH1 and CDKN2A gene by promoter methylation in gastric cancer: relationship with histological subtype, tumor location and Helicobacter pylori genotype. <b>2011</b> , 78, 266-76	27
619	Organomegaly and tumors in transgenic mice with targeted expression of HpaII methyltransferase in smooth muscle cells. <b>2011</b> , 6, 333-43	6
618	DNA methylation in cancer development, diagnosis and therapymultiple opportunities for genotoxic agents to act as methylome disruptors or remediators. <b>2011</b> , 26, 475-87	68
617	Transcriptionally repressed genes become aberrantly methylated and distinguish tumors of different lineages in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 4364-9	131
616	Distinct association between aberrant methylation of Wnt inhibitors and genetic alterations in acute myeloid leukaemia. <b>2011</b> , 105, 1927-33	25
615	Predictive and prognostic factors in colorectal cancer: a personalized approach. <i>Cancers</i> , <b>2011</b> , 3, 1622-3 <b>8</b> .6	26
614	Methylation of the 3p22 region encompassing MLH1 is representative of the CpG island methylator phenotype in colorectal cancer. <b>2011</b> , 24, 396-411	33
613	General aspects of colorectal cancer. <b>2012</b> , 2012, 139268	32
612	Genes and Cancer. <b>2012</b> , 561-596.e6	
611	Microsatellite instability in sarcoma: fact or fiction?. <b>2012</b> , 2012, 473146	11
610	CDK1 regulates mediator of DNA damage checkpoint 1 during mitotic DNA damage. <b>2012</b> , 72, 5448-53	12
609	Relative distribution of folate species is associated with global DNA methylation in human colorectal mucosa. <b>2012</b> , 5, 921-9	18
608	Methylation variable position profiles of hMLH1 promoter CpG islands in human sporadic colorectal carcinoma. <b>2012</b> , 21, 24-33	6
607	Proximal colon cancers and the serrated pathway: a systematic analysis of precursor histology and BRAF mutation status. <b>2012</b> , 25, 1423-31	36
606	Role of the microenvironment in the tumourigenesis of microsatellite unstable and MUTYH-associated polyposis colorectal cancers. <b>2012</b> , 27, 247-53	8

605	Age-associated DNA methylation in pediatric populations. <b>2012</b> , 22, 623-32	262
604	DNA methylation profiles delineate epigenetic heterogeneity in seminoma and non-seminoma. <b>2012</b> , 106, 414-23	42
603	Colon cancer-associated DNA polymerase Pariant induces genomic instability and cellular transformation. <b>2012</b> , 287, 23840-9	35
602	CpG island methylator phenotype-positive tumors in the absence of MLH1 methylation constitute a distinct subset of duodenal adenocarcinomas and are associated with poor prognosis. <b>2012</b> , 18, 4743-52	41
601	Circulating cell-free DNA: a promising marker of regional lymphonode metastasis in breast cancer patients. <b>2012</b> , 11, 89-98	57
600	Association of obesity with DNA mismatch repair status and clinical outcome in patients with stage II or III colon carcinoma participating in NCCTG and NSABP adjuvant chemotherapy trials. <i>Journal of 2.2 Clinical Oncology</i> , <b>2012</b> , 30, 406-12	38
599	Cancer risks for the relatives of colorectal cancer cases with a methylated MLH1 promoter region: data from the Colorectal Cancer Family Registry. <b>2012</b> , 5, 328-35	9
598	Epigenetic regulation of kallikrein-related peptidases: there is a whole new world out there. <b>2012</b> , 393, 319-30	30
597	Asymptomatic synchronous quintuple primary cancers. <b>2012</b> , 74, 324-8	7
596	Human POLB gene is mutated in high percentage of colorectal tumors. <b>2012</b> , 287, 23830-9	62
595	Short-term folate supplementation in physiological doses has no effect on ESR1 and MLH1 methylation in colonic mucosa of individuals with adenoma. <b>2012</b> , 5, 327-38	11
594	DNA mismatch repair deficiency in breast carcinoma: a pilot study of triple-negative and non-triple-negative tumors. <b>2012</b> , 36, 1700-8	27
593	Epigenetic regulation and colorectal cancer. <b>2012</b> , 55, 96-104	34
592	Humans accumulate microsatellite instability with acquired loss of MLH1 protein in hematopoietic stem and progenitor cells as a function of age. <b>2012</b> , 120, 3229-36	25
591	DNA methylation biomarkers and their utility for solid cancer diagnostics. <b>2012</b> , 50, 1707-21	59
590	Epigenetic drug discovery: targeting DNA methyltransferases. <b>2012</b> , 17, 2-17	121
589	Methylation of the polycomb group target genes is a possible biomarker for favorable prognosis in colorectal cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2012</b> , 21, 2069-75	23
588	DNA methylation pattern of the SLC25A43 gene in breast cancer. <b>2012</b> , 7, 300-6	13

587	Tissue of origin determines cancer-associated CpG island promoter hypermethylation patterns. <b>2012</b> , 13, R84	121
586	Das Lynch-Syndrom. <b>2012</b> , 34, 329-340	
585	Implication of the 🛭-microglobulin gene in the generation of tumor escape phenotypes. <b>2012</b> , 61, 1359-71	84
584	Application of Immunohistochemistry and Molecular Diagnostics to Clinically Relevant Problems in Endometrial Cancer Bojana Djordjevic, Shannon Westin, Russell R. Broaddus. <b>2012</b> , 5, 859-878	5
583	Relevance, pathogenesis, and testing algorithm for mismatch repair-defective colorectal carcinomas: a report of the association for molecular pathology. <b>2012</b> , 14, 91-103	131
582	Mechanism of mismatch recognition revealed by human MutSIbound to unpaired DNA loops. <b>2011</b> , 19, 72-8	94
581	hMLH1 promoter hypermethylation and MSI status in human endometrial carcinomas with and without metastases. <b>2012</b> , 29, 889-900	18
580	Effects of environmental stressors on histone modifications and their relevance to carcinogenesis: a systematic review. <b>2012</b> , 42, 491-500	10
579	Molecular pathways: microsatellite instability in colorectal cancer: prognostic, predictive, and therapeutic implications. <b>2012</b> , 18, 1506-12	176
578	MSH3 protein expression and nodal status in MLH1-deficient colorectal cancers. <b>2012</b> , 18, 3142-53	17
577	Histone modifications as a pathogenic mechanism of colorectal tumorigenesis. <b>2012</b> , 44, 1276-89	36
576	DNA demethylation by 5-aza-2-deoxycytidine treatment abrogates 17 beta-estradiol-induced cell growth and restores expression of DNA repair genes in human breast cancer cells. <b>2012</b> , 316, 62-9	48
575	A systems biology approach to the global analysis of transcription factors in colorectal cancer. <b>2012</b> , 12, 331	21
574	Biomarkers in early-stage colorectal cancer: ready for prime time?. <b>2012</b> , 30 Suppl 2, 27-33	24
573	Smoking increases the risk for colorectal adenomas in patients with Lynch syndrome. <b>2012</b> , 142, 241-7	36
572	[DNA methylation defects in sporadic and hereditary colorectal cancer]. <b>2012</b> , 35, 480-7	3
571	The Epigenetics of Gastrointestinal Malignancies. <b>2012</b> , 8, 254-262	2
570	Epigenetic Modifications in Chemical Carcinogenesis. <b>2012</b> , 631-643	3

# (2013-2012)

569	Association of genomic instability, and the methylation status of imprinted genes and mismatch-repair genes, with neural tube defects. <b>2012</b> , 20, 516-20		25
568	Frequent epigenetic silencing of the folate-metabolising gene cystathionine-beta-synthase in gastrointestinal cancer. <i>PLoS ONE</i> , <b>2012</b> , 7, e49683	3.7	38
567	Avalia® da express® do gene MGMT nos tecidos normal e neopl®ico de doentes com c®cer colorretal. <b>2012</b> , 39, 48-53		4
566	Promoter CpG island methylation in colorectal cancer:. 306-322		
565	Mechanisms of GI Malignancies. <b>2012</b> , 2129-2155		1
564	Analysis of the role of hMLH1 hypermethylation and microsatellite instability in meningioma progression. <b>2012</b> , 11, 3933-41		4
563	Yield of routine molecular analyses in colorectal cancer patients â\( \textit{I}\)0 years to detect underlying Lynch syndrome. <b>2012</b> , 226, 764-74		52
562	Curcumin causes promoter hypomethylation and increased expression of FANCF gene in SiHa cell line. <b>2012</b> , 365, 29-35		33
561	Externalization of saw-tooth architecture in small serrated polyps implies the presence of methylation of IGFBP7. <b>2012</b> , 57, 1261-70		13
560	Lynch syndrome diagnostics: decision-making process for germ-line testing. <b>2012</b> , 14, 254-62		2
559	Lynch syndrome: clinical, pathological, and genetic insights. <b>2012</b> , 397, 513-25		13
558	The CpG island methylator phenotype in colorectal cancer: progress and problems. <b>2012</b> , 1825, 77-85		70
557	Increased promoter methylation of the immune regulatory gene SHP-1 in leukocytes of multiple sclerosis subjects. <b>2012</b> , 246, 51-7		53
556	Prdx1 deficiency in mice promotes tissue specific loss of heterozygosity mediated by deficiency in DNA repair and increased oxidative stress. <b>2012</b> , 735, 39-45		16
555	Interpretation of genome-wide infinium methylation data from ligated DNA in formalin-fixed, paraffin-embedded paired tumor and normal tissue. <b>2012</b> , 5, 117		26
554	Detection of DNA hypermethylation in remote media of patients with colorectal cancer: new biomarkers for colorectal carcinoma. <b>2012</b> , 33, 297-305		15
553	Pharmacokinetic and pharmacodynamic analysis of 5-aza-2'-deoxycytidine (decitabine) in the design of its dose-schedule for cancer therapy. <i>Clinical Epigenetics</i> , <b>2013</b> , 5, 3	7.7	143
552	Cancer of the Colon and Gastrointestinal Tract. <b>2013</b> , 1-35		

551	Correlation of MLH1 and MGMT expression and promoter methylation with genomic instability in patients with thyroid carcinoma. <b>2013</b> , 13, 79	18
550	Basic mechanics of DNA methylation and the unique landscape of the DNA methylome in metal-induced carcinogenesis. <b>2013</b> , 43, 493-514	95
549	Contributions of molecular analysis to the diagnosis and treatment of gastrointestinal neoplasms. <b>2013</b> , 30, 329-61	10
548	The hMLH1 promoter polymorphisms and cancer susceptibility in Asian populations: a meta-analysis. <b>2013</b> , 523, 199-204	6
547	Genomic insights into cancer-associated aberrant CpG island hypermethylation. <b>2013</b> , 12, 174-90	92
546	The CpG island methylator phenotype: what's in a name?. <b>2013</b> , 73, 5858-68	123
545	Prognostic impact of deficient DNA mismatch repair in patients with stage III colon cancer from a randomized trial of FOLFOX-based adjuvant chemotherapy. <i>Journal of Clinical Oncology</i> , <b>2013</b> , 31, 3664-72	192
544	BRAF V600E mutation analysis simplifies the testing algorithm for Lynch syndrome. <b>2013</b> , 140, 177-83	37
543	The landscape of microsatellite instability in colorectal and endometrial cancer genomes. <b>2013</b> , 155, 858-68	247
542	A Study of Cancer Heterogeneity: From Genetic Instability to Epigenetic Diversity in Colorectal Cancer. <b>2013</b> , 363-388	3
541	Epigenetic alterations in oncogenesis. Preface. <b>2013</b> , 754, v-vii	7
540	DNA Alterations in Lynch Syndrome. <b>2013</b> ,	
539	Molecular Pathology of Neoplastic Gastrointestinal Diseases. 2013,	2
538	Maintaining the unmethylated state. <i>Clinical Epigenetics</i> , <b>2013</b> , 5, 17	1
537	DNA methyltransferases, DNA damage repair, and cancer. <b>2013</b> , 754, 3-29	279
536	Diagnostic utility of MS-MLPA in DNA methylation profiling of adenocarcinomas and neuroendocrine carcinomas of the colon-rectum. <b>2013</b> , 462, 47-56	34
535	A multifactorial likelihood model for MMR gene variant classification incorporating probabilities based on sequence bioinformatics and tumor characteristics: a report from the Colon Cancer Family Registry. <b>2013</b> , 34, 200-9	70
534	SP1 mediates the link between methylation of the tumour suppressor miR-149 and outcome in colorectal cancer. <b>2013</b> , 229, 12-24	104

533	Deciphering the epigenetic network in colorectal cancer. <b>2013</b> , 229, 1-3	4
532	Molecular underpinning of extranodal NK/T-cell lymphoma. <b>2013</b> , 26, 57-74	54
531	Microsatellite instability status affects gene expression profiles in early onset colorectal cancer patients. <b>2013</b> , 185, 626-37	6
530	Genomic instability in pre-neoplastic colonic lesions. <b>2013</b> , 32, 5331-2	
529	Environmental toxicants, epigenetics, and cancer. <b>2013</b> , 754, 215-32	87
528	Therapeutic applications of PARP inhibitors: anticancer therapy and beyond. <b>2013</b> , 34, 1217-56	265
527	Interplay between the cancer genome and epigenome. <b>2013</b> , 153, 38-55	588
526	Mechanisms of Gastrointestinal Carcinogenesis. <b>2013</b> , 3-29	
525	DNA methylation and cancer development: molecular mechanism. <b>2013</b> , 67, 501-13	98
524	Predictive and Prognostic Biomarkers for Colorectal Cancer. <b>2013</b> , 131-162	2
523	The Role of Epimutations of the Mismatch Repair Genes in the Development of Lynch Syndrome Related Cancers. <b>2013</b> , 101-133	
522	Molecular Mechanisms and Functions of DNA Mismatch Repair. <b>2013</b> , 25-45	1
521	Mutations in Non-MMR Genes Modifying or Mimicking Lynch Syndrome Phenotype. <b>2013</b> , 135-169	
520	DNA methylome alterations in chemical carcinogenesis. <b>2013</b> , 334, 39-45	36
519	Aberrant promoter hypermethylation of PBRM1, BAP1, SETD2, KDM6A and other chromatin-modifying genes is absent or rare in clear cell RCC. <b>2013</b> , 8, 486-93	43
518	Promoter methylation status of the tumor suppressor gene SOX11 is associated with cell growth and invasion in nasopharyngeal carcinoma. <b>2013</b> , 13, 109	20
517	Regulation of MLH1 mRNA and protein expression by promoter methylation in primary colorectal cancer: a descriptive and prognostic cancer marker study. <b>2013</b> , 36, 411-9	17
516	The role of anti-inflammatory drugs in colorectal cancer. <b>2013</b> , 64, 131-44	87

515	Functional heterogeneity and heritability in CHO cell populations. 2013, 110, 260-74	81
514	Therapeutic implications of DNA mismatch repair in adjuvant colorectal cancer chemotherapy. <b>2013</b> , 2, 51-59	1
513	Subsets of microsatellite-unstable colorectal cancers exhibit discordance between the CpG island methylator phenotype and MLH1 methylation status. <b>2013</b> , 26, 1013-22	19
512	Molecular pathways involved in colorectal cancer: implications for disease behavior and prevention. <b>2013</b> , 14, 16365-85	294
511	Clinicopathologic features of synchronous colorectal carcinoma: A distinct subset arising from multiple sessile serrated adenomas and associated with high levels of microsatellite instability and favorable prognosis. <b>2013</b> , 37, 1660-70	32
510	Population-based molecular screening for Lynch syndrome: implications for personalized medicine.  Journal of Clinical Oncology, <b>2013</b> , 31, 2554-62	2 63
509	Molecular and clinical characteristics of MSH6 germline variants detected in colorectal cancer patients. <b>2013</b> , 30, 2909-16	14
508	Stool DNA testing for cancer surveillance in inflammatory bowel disease: an early view. <b>2013</b> , 6, 371-80	11
507	Epigenetic changes in colorectal cancer. <b>2013</b> , 32, 21-30	42
506	MLH1 promoter methylation frequency in colorectal cancer patients and related clinicopathological and molecular features. <i>PLoS ONE</i> , <b>2013</b> , 8, e59064	7 59
505	Translating mismatch repair mechanism into cancer care. <b>2014</b> , 15, 53-64	11
504	Clinical problems of colorectal cancer and endometrial cancer cases with unknown cause of tumor mismatch repair deficiency (suspected Lynch syndrome). <b>2014</b> , 7, 183-93	53
503	Inflammatory colonic carcinogenesis: a review on pathogenesis and immunosurveillance mechanisms in ulcerative colitis. <b>2014</b> , 20, 6774-85	63
502	Underexpression of miR-126 and miR-20b in hereditary and nonhereditary colorectal tumors. <b>2014</b> , 87, 58-66	27
501	Haplotype defined by the MLH1-93G/A polymorphism is associated with MLH1 promoter hypermethylation in sporadic colorectal cancers. <b>2014</b> , 7, 835	13
500	TFAP2E hypermethylation was associated with survival advantage in patients with colorectal cancer. <b>2014</b> , 140, 2119-27	11
499	Summary of microsatellite instability test results from laboratories participating in proficiency surveys: proficiency survey results from 2005 to 2012. <b>2014</b> , 138, 363-70	11
498	Molecular markers of carcinogenesis for risk stratification of individuals with colorectal polyps: a	3

497	Colorectal cancer: from the laboratory to the patient, a now indispensable step. <b>2014</b> , 79, 71-2	O
496	CHFR silencing or microsatellite instability is associated with increased antitumor activity of docetaxel or gemcitabine in colorectal cancer. <i>International Journal of Cancer</i> , <b>2014</b> , 134, 596-605	18
495	MLH1 constitutional and somatic methylation in patients with MLH1 negative tumors fulfilling the revised Bethesda criteria. <b>2014</b> , 9, 1431-8	19
494	Molecular Predictive and Prognostic Markers of Colorectal Carcinoma. <b>2014</b> , 19, 252-255	
493	Isocitrate dehydrogenase-1 is mutated in inflammatory bowel disease-associated intestinal adenocarcinoma with low-grade tubuloglandular histology but not in sporadic intestinal adenocarcinoma. <b>2014</b> , 38, 1147-56	26
492	Helicobacter pylori associated chronic gastritis, clinical syndromes, precancerous lesions, and pathogenesis of gastric cancer development. <b>2014</b> , 20, 5461-73	134
491	Epigenetic biomarkers: potential applications in gastrointestinal cancers. 2014, 2014, 464015	21
490	The epigenome and cancer prevention: A complex story of dietary supplementation. <b>2014</b> , 342, 275-84	18
489	Serrated lesions of the appendix frequently harbor KRAS mutations and not BRAF mutations indicating a distinctly different serrated neoplastic pathway in the appendix. <b>2014</b> , 45, 227-35	43
488	A dual-fluorescent reporter facilitates identification of thiol compounds that suppress microsatellite instability induced by oxidative stress. <b>2014</b> , 69, 86-95	2
487	Inter-individual variation in DNA repair capacity: a need for multi-pathway functional assays to promote translational DNA repair research. <b>2014</b> , 19, 199-213	60
486	Role of the clinical pathology laboratory in the evaluation of endometrial carcinomas for Lynch syndrome. <b>2014</b> , 31, 195-204	6
485	Current Lynch syndrome tumor screening practices: a survey of genetic counselors. 2014, 23, 38-47	40
484	Promoter methylation and immunohistochemical expression of hMLH1 and hMSH2 in sporadic colorectal cancer: a study from India. <b>2014</b> , 35, 3679-87	16
483	Epigenetic alterations in sporadic basal cell carcinomas. <b>2014</b> , 306, 561-9	7
482	Reduced migration of MLH1 deficient colon cancer cells depends on SPTAN1. <b>2014</b> , 13, 11	20
481	Utility of MS-MLPA in DNA methylation profiling in primary laryngeal squamous cell carcinoma. <b>2014</b> , 50, 291-7	11
480	The multifaceted role of the intestinal microbiota in colon cancer. <b>2014</b> , 54, 309-20	215

Inhibition of DNA Repair as a Therapeutic Target. **2014**, 193-237

478	Genomics of Colorectal Cancer. <b>2014</b> , 247-264	2
477	Colorectal cancer. <b>2014</b> , 383, 1490-1502	1879
476	Epigenetic primer for diagnostic applications: a window into personalized medicine. <b>2014</b> , 11, 323-337	2
475	Prognostic Impact of Deficient DNA Mismatch Repair and Mutations in , and in Patients with Lymph Node-Positive Colon Cancer. <b>2014</b> , 10, 346-353	6
474	DNA damage response genes and the development of cancer metastasis. <b>2014</b> , 181, 111-30	170
473	Evaluating the sensitivity of hybridization-based epigenotyping using a methyl binding domain protein. <b>2014</b> , 139, 3695-701	19
472	DNA Methylation and Colorectal Cancer. <b>2014</b> , 10, 425-430	33
471	Induction of complete and mosaic sex-linked recessive lethal mutations by cigarette smoke filtrate in Drosophila melanogaster. <b>2014</b> , 37, 163-8	2
470	Silencing of the DNA mismatch repair gene MLH1 induced by hypoxic stress in a pathway dependent on the histone demethylase LSD1. <b>2014</b> , 8, 501-13	46
469	Epigenetic regulation in cancer progression. <b>2014</b> , 4, 45	78
468	Prognostic value of CpG island methylator phenotype among colorectal cancer patients: a systematic review and meta-analysis. <b>2014</b> , 25, 2314-2327	118
467	Cancer: evolution within a lifetime. <b>2014</b> , 48, 215-36	146
466	Establishing a biological profile for interval colorectal cancers. <b>2014</b> , 59, 2390-402	12
465	Genetics, biomarkers, hereditary cancer syndrome diagnosis, heterogeneity and treatment: a review. <b>2014</b> , 15, 429-42	16
464	Environmental Exposure and Tumor Heterogeneity in Colorectal Cancer Risk and Outcomes. <b>2014</b> , 10, 94-104	10
463	Promoter methylation status of MGMT, hMSH2, and hMLH1 and its relationship to corresponding protein expression and TP53 mutations in human esophageal squamous cell carcinoma. <b>2014</b> , 31, 784	18
462	Aberrant DNA methylation of integrin 4 in human breast cancer. <b>2014</b> , 35, 7079-84	6

461	Differentiating Lynch-like from Lynch syndrome. <b>2014</b> , 146, 602-4	81
460	Clinicopathologic characteristics of colorectal cancer with microsatellite instability. <b>2014</b> , 210, 98-104	11
459	A Phase I Protocol of Hydralazine and Valproic Acid in Advanced, Previously Treated Solid Cancers. <b>2014</b> , 7, 349-349	23
458	Harnessing the potential of epigenetic therapy to target solid tumors. <b>2014</b> , 124, 56-63	106
457	Should mismatch repair status be determined in all stage II and III colon cancer patients?. <b>2014</b> , 3, 321-329	
456	Epigenetic changes of TIMP-3, GSTP-1 and 14-3-3 sigma genes as indication of status of chronic inflammation and cancer. <b>2014</b> , 29, e208-14	8
455	ACOG Practice Bulletin No. 147: Lynch syndrome. <b>2014</b> , 124, 1042-1054	107
454	Colorectal cancer: From the laboratory to the patient, a now indispensable step. <b>2014</b> , 79, 71-72	
453	Cellular Uptake of Decitabine by Equilibrative Nucleoside Transporters in HCT116 Cells. <b>2015</b> , 38, 1113-9	12
452	Colorectal Cancers with the Uncommon Findings of KRAS Mutation and Microsatellite Instability. <b>2015</b> , 146, 261-7	2
451	Meta-analysis of genome-wide association studies identifies common susceptibility polymorphisms for colorectal and endometrial cancer near SH2B3 and TSHZ1. <b>2015</b> , 5, 17369	27
450	Integrative DNA methylation and gene expression analysis to assess the universality of the CpG island methylator phenotype. <b>2015</b> , 9, 26	10
449	Microsatellite instability use in mismatch repair gene sequence variant classification. 2015, 6, 150-62	7
448	DNA mismatch repair-related protein loss as a prognostic factor in endometrial cancers. <b>2015</b> , 26, 40-5	54
447	Lynch syndrome and Lynch syndrome mimics: The growing complex landscape of hereditary colon cancer. <b>2015</b> , 21, 9253-61	118
446	PD-1 Blockade in Tumors with Mismatch-Repair Deficiency. <b>2015</b> , 372, 2509-20	5560
445	Phosphorylation of PCNA by EGFR inhibits mismatch repair and promotes misincorporation during DNA synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 11.5 <b>2015</b> , 112, 5667-72	46
444	Microsatellite instability testing and its role in the management of colorectal cancer. <b>2015</b> , 16, 30	219

443	Molecular markers for colorectal cancer screening. <b>2015</b> , 64, 1485-94	78
442	MicroRNA Expression Profile Reveals miR-17-92 and miR-143-145 Cluster in Synchronous Colorectal Cancer. <b>2015</b> , 94, e1297	20
441	MLH1. <b>2015</b> , 1-10	
440	Combined methylation of p16 and hMLH1 (CMETH2) discriminates a subpopulation with better prognosis in colorectal cancer patients with microsatellite instability tumors. <b>2015</b> , 36, 3853-61	5
439	DNA methylation of channel-related genes in cancers. <b>2015</b> , 1848, 2621-8	38
438	Left-sided early-onset vs late-onset colorectal carcinoma: histologic, clinical, and molecular differences. <b>2015</b> , 143, 374-84	7
437	Applying public health screening criteria: how does universal newborn screening compare to universal tumor screening for Lynch syndrome in adults with colorectal cancer?. <b>2015</b> , 24, 409-20	6
436	Genetics and Genetic Biomarkers in Sporadic Colorectal Cancer. <b>2015</b> , 149, 1177-1190.e3	259
435	Instability of a dinucleotide repeat in the 3'-untranslated region (UTR) of the microsomal prostaglandin E synthase-1 (mPGES-1) gene in microsatellite instability-high (MSI-H) colorectal carcinoma. <b>2015</b> , 9, 1252-8	2
434	Transforming growth factor Itype II receptor as a marker in diffuse large B cell lymphoma. <b>2015</b> , 36, 9903-8	6
433	Lipoic acid inhibits the DNA repair protein O 6-methylguanine-DNA methyltransferase (MGMT) and triggers its depletion in colorectal cancer cells with concomitant autophagy induction. <b>2015</b> , 36, 817-31	29
432	Interleukin 6 alters localization of hMSH3, leading to DNA mismatch repair defects in colorectal cancer cells. <b>2015</b> , 148, 579-89	64
431	The effects of folic acid on global DNA methylation and colonosphere formation in colon cancer cell lines. <b>2015</b> , 26, 818-26	48
430	Translational Considerations on the Outlook of Immunotherapy for Colorectal Cancer. <b>2015</b> , 11, 92-97	4
429	Tumor and Patient Characteristics of Individuals with Mismatch Repair Deficient Colorectal Cancer. <b>2015</b> , 91, 286-93	7
428	Lynch syndrome: five unanswered questions. <b>2015</b> , 87, 503-6	5
427	Characterization and directed evolution of a methyl-binding domain protein for high-sensitivity DNA methylation analysis. <b>2015</b> , 28, 543-51	8
426	Prognostic and Predictive Biomarkers in Colorectal Cancer: Implications for the Clinical Surgeon. <b>2015</b> , 22, 3433-50	18

425	Epigenetics in breast and prostate cancer. <b>2015</b> , 1238, 425-66	60
424	Diagnosis and management of DNA mismatch repair-deficient colorectal cancer. <b>2015</b> , 29, 29-41	15
423	Association of high CD4-positive T cell infiltration with mutations in HLA class II-regulatory genes in microsatellite-unstable colorectal cancer. <b>2015</b> , 64, 357-66	24
422	Genomic Instability and Cancer Metastasis. 2015,	1
421	Portrait of the PI3K/AKT pathway in colorectal cancer. <b>2015</b> , 1855, 104-21	148
420	Deacetylase inhibitors for the treatment of myelodysplastic syndromes. <b>2015</b> , 56, 1205-12	4
419	Higher frequency of isolated PMS2 loss in colorectal tumors in Colombian population: preliminary results. <b>2016</b> , Volume 8, 37-41	1
418	The clinicopathological significance of hMLH1 hypermethylation in non-small-cell lung cancer: a meta-analysis and literature review. <b>2016</b> , 9, 5081-90	9
417	The clinical value of aberrant epigenetic changes of DNA damage repair genes in human cancer. <b>2016</b> , 7, 37331-37346	59
416	Role of Deficient Mismatch Repair in the Personalized Management of Colorectal Cancer. <b>2016</b> , 13,	35
415	Regulation of the Telomerase Reverse Transcriptase Subunit through Epigenetic Mechanisms. <b>2016</b> , 7, 83	56
414	Methylation Analysis of DNA Mismatch Repair Genes Using DNA Derived from the Peripheral Blood of Patients with Endometrial Cancer: Epimutation in Endometrial Carcinogenesis. <b>2016</b> , 7,	6
413	Whole Gene Capture Analysis of 15 CRC Susceptibility Genes in Suspected Lynch Syndrome Patients. <i>PLoS ONE</i> , <b>2016</b> , 11, e0157381	9
412	A Practical Approach to the Evaluation of Gastrointestinal Tract Carcinomas for Lynch Syndrome. <b>2016</b> , 40, e17-34	35
411	CD80 down-regulation is associated to aberrant DNA methylation in non-inflammatory colon carcinogenesis. <b>2016</b> , 16, 388	10
410	Inhibition of DNA Methylation at the Promoter Region Using Pyrrole-Imidazole Polyamide. <b>2016</b> , 1, 1164-117	<b>2</b> 8
409	Application of Clinical Bioinformatics. 2016,	8
408	Clinical Epigenetics and Epigenomics. <b>2016</b> , 269-293	

407	Recent discoveries in the molecular genetics of Lynch syndrome. <b>2016</b> , 15, 395-403	18
406	Epigenetic Determinants of Cancer. <b>2016</b> , 8,	501
405	Mismatch repair deficiency concordance between primary colorectal cancer and corresponding metastasis. <b>2016</b> , 15, 253-60	25
404	DNA Methylation and Cancer. <b>2016</b> , 103-134	2
403	Intratumoral Heterogeneity of the Epigenome. <b>2016</b> , 29, 440-451	132
402	The 100 most influential manuscripts in colorectal cancer: A bibliometric analysis. <b>2016</b> , 14, 327-336	20
401	Differential DNA methylation patterns of homeobox genes in proximal and distal colon epithelial cells. <b>2016</b> , 48, 257-73	4
400	Colorectal Cancer Subtypes: Developmental Origin and Microenvironmental Regulation. <b>2016</b> , 2, 505-518	34
399	Sequencing Structural Variants in Cancer for Precision Therapeutics. <b>2016</b> , 32, 530-542	55
398	Engineering affinity agents for the detection of hemi-methylated CpG sites in DNA. <b>2016</b> , 1, 273-277	2
397	Colorectal Cancer with BRAF D594G Mutation Is Not Associated with Microsatellite Instability or Poor Prognosis. <b>2016</b> , 91, 162-70	6
396	Loss of mutL homolog-1 (MLH1) expression promotes acquisition of oncogenic and inhibitor-resistant point mutations in tyrosine kinases. <b>2016</b> , 73, 4739-4748	4
395	Emergence of the Noncoding Cancer Genome: A Target of Genetic and Epigenetic Alterations. <b>2016</b> , 6, 1215-1229	41
394	Das Tumorepigenom âlvon der Genregulation Ber die Tumorklassifikation zum Therapietarget. <b>2016</b> , 28, 424-434	
393	Long-lasting reduction in clonogenic potential of colorectal cancer cells by sequential treatments with 5-azanucleosides and topoisomerase inhibitors. <b>2016</b> , 16, 893	13
392	MLH1-deficient Colorectal Carcinoma With Wild-type BRAF and MLH1 Promoter Hypermethylation Harbor KRAS Mutations and Arise From Conventional Adenomas. <b>2016</b> , 40, 1390-9	19
391	Laboratory Assays in Evaluation of Lynch Syndrome in Patients with Endometrial Carcinoma. <b>2016</b> , 9, 289-99	7
390	Molecular pathogenesis of sporadic colorectal cancers. <b>2016</b> , 35, 4	67

# (2017-2016)

389	Targeting epigenetic pathways in acute myeloid leukemia and myelodysplastic syndrome: a systematic review of hypomethylating agents trials. <i>Clinical Epigenetics</i> , <b>2016</b> , 8, 68	47
388	Review: Clinical aspects of hereditary DNA Mismatch repair gene mutations. <b>2016</b> , 38, 155-162	43
387	The genetic prediction of risk for gynecologic cancers. <b>2016</b> , 141, 10-6	33
386	A Molecular Perspective on Procedures and Outcomes with Assisted Reproductive Technologies. <b>2016</b> , 6, a023416	6
385	Microsatellite Instability as a Biomarker for PD-1 Blockade. <b>2016</b> , 22, 813-20	470
384	Patients with colorectal cancer associated with Lynch syndrome and MLH1 promoter hypermethylation have similar prognoses. <b>2016</b> , 18, 863-8	24
383	Mechanisms and Consequences of Cancer Genome Instability: Lessons from Genome Sequencing Studies. <b>2016</b> , 11, 283-312	72
382	Efficacy of Adjuvant Chemotherapy in Colon Cancer With Microsatellite Instability: A Large Multicenter AGEO Study. <b>2016</b> , 108,	84
381	Molecular evolution of colorectal cancer: from multistep carcinogenesis to the big bang. 2016, 35, 63-74	20
380	Mismatch repair defects and Lynch syndrome: The role of the basic scientist in the battle against cancer. <b>2016</b> , 38, 127-134	33
379	Methylation of tumor suppressor gene CDH13 and SHP1 promoters and their epigenetic regulation by the UHRF1/PRMT5 complex in endometrial carcinoma. <b>2016</b> , 140, 145-51	34
378	Modal variety of microsatellite instability in human endometrial carcinomas. <b>2016</b> , 142, 353-63	9
377	Using nanobiotechnology to increase the prevalence of epigenotyping assays in precision medicine. <b>2017</b> , 9, e1407	2
376	Cytological findings of langerhans cell sarcoma in a case of quintuple cancer. <b>2017</b> , 45, 441-445	4
375	Expression and promoter DNA methylation of MLH1 in colorectal cancer and lung cancer. <b>2017</b> , 213, 333-338	25
374	Microsatellite Instability Pathway and EMAST in Colorectal Cancer. <b>2017</b> , 13, 73-80	35
373	Subgroups and prognostication in stage III colon cancer: future perspectives for adjuvant therapy. <b>2017</b> , 28, 958-968	53
372	Epigenetics in endometrial carcinogenesis - part 1: DNA methylation. <b>2017</b> , 9, 737-755	15

371	A molecular portrait of microsatellite instability across multiple cancers. <i>Nature Communications</i> , <b>2017</b> , 8, 15180	288
370	MLH1. <b>2017</b> , 893-902	
369	DNA mismatch repair deficiency in surgically resected lung adenocarcinoma: Microsatellite instability analysis using the Promega panel. <b>2017</b> , 110, 26-31	44
368	Inflammation-associated DNA methylation patterns in epithelium of ulcerative colitis. <b>2017</b> , 12, 591-606	25
367	Changes in DNA methylation of erythroid-specific genes in K562 cells exposed to catechol in long term. <b>2017</b> , 43, 21-28	3
366	Subclonal diversity arises early even in small colorectal tumours and contributes to differential growth fates. <b>2017</b> , 66, 2132-2140	28
365	GPX3 promoter methylation predicts platinum sensitivity in colorectal cancer. <b>2017</b> , 12, 540-550	31
364	Colon Cancer Screening. <b>2017</b> , 283-296	
363	Precision Molecular Pathology of Uterine Cancer. 2017,	2
362	Gene Expression, DNA Methylation and Prognostic Significance of DNA Repair Genes in Human Bladder Cancer. <b>2017</b> , 42, 2404-2417	12
361	Epigenetics and Precision Oncology. <b>2017</b> , 23, 262-269	40
360	DNA and Histone Methylation in Colon Cancer. <b>2017</b> , 461-487	
359	Identification of a novel leukemic-specific splice variant of DNMT3B and its stability. 2017, 34, 145	2
358	Small Bowel Adenocarcinoma Frequently Exhibits Lynch Syndrome-associated Mismatch Repair Protein Deficiency But Does Not Harbor Sporadic MLH1 Deficiency. <b>2017</b> , 25, 399-406	6
357	Genomic markers of ovarian adenocarcinoma and its relevancy to the effectiveness of chemotherapy. <b>2017</b> , 14, 3401-3414	5
356	The current value of determining the mismatch repair status of colorectal cancer: A rationale for routine testing. <b>2017</b> , 116, 38-57	78
355	Multilevel genomics of colorectal cancers with microsatellite instability-clinical impact of JAK1 mutations and consensus molecular subtype 1. <b>2017</b> , 9, 46	53
354	Genomic profiling of colorectal cancers and the future of personalized treatment. <b>2017</b> , 6, 11-22	O

353	Shaping functional gut microbiota using dietary bioactives to reduce colon cancer risk. 2017, 46, 191-204	36
352	A specific mode of microsatellite instability is a crucial biomarker in adult T-cell leukaemia/lymphoma patients. <b>2017</b> , 143, 399-408	5
351	Epigenetic Basis of Human Cancer. <b>2017</b> , 83-102	1
350	Allele-Specific DNA Methylation and Its Interplay with Repressive Histone Marks at Promoter-Mutant TERT Genes. <b>2017</b> , 21, 3700-3707	44
349	Inter-patient and Intra-tumor Heterogeneity in the Sensitivity to Tumor-targeted Immunity in Colorectal Cancer. <b>2017</b> , 40, 54-59	10
348	Genetic Profiling of Cancers of the Digestive System: Biological Insights and Clinical Implications. <b>2017</b> , 84, 306-322	5
347	Clinical Significance and Prognostic Relevance of Microsatellite Instability in Sporadic Colorectal Cancer Patients. <b>2017</b> , 18,	47
346	Simultaneous Methylation-Level Assessment of Hundreds of CpG Sites by Targeted Bisulfite PCR Sequencing (TBPseq). <b>2017</b> , 8, 97	4
345	Potential role of radiation therapy in augmenting the activity of immunotherapy for gynecologic cancers. <b>2017</b> , 9, 553-563	11
344	Methylation and expression of mismatch repair gene human mutS homolog 2 in myelodysplastic syndromes. <b>2018</b> , 15, 500-505	
343	The Impact of Microsatellite Instability Status and Sidedness of the Primary Tumor on the Effect of Cetuximab-Containing Chemotherapy in Patients with Metastatic Colorectal Cancer. <b>2017</b> , 8, 2809-2815	10
342	The Response of Cancer Cell Populations to Therapies. <b>2017</b> , 137-152	
341	Genomics of peritoneal surface malignancies. 2017,	1
340	The Heterogeneity Between Lynch-Associated and Sporadic MMR Deficiency in Colorectal Cancers. <b>2018</b> , 110, 975-984	15
339	Recent progress in Lynch syndrome and other familial colorectal cancer syndromes. 2018, 68, 217-231	69
338	DNA mismatch repair in cancer. <b>2018</b> , 189, 45-62	171
337	Differential expression of the TWEAK receptor Fn14 in IDH1 wild-type and mutant gliomas. <b>2018</b> , 138, 241-250	7
336	Differences in histological features and PD-L1 expression between sporadic microsatellite instability and Lynch-syndrome-associated disease in Japanese patients with colorectal cancer. <b>2018</b> , 23, 504-513	9

335	NKX6.1 hypermethylation predicts the outcome of stage II colorectal cancer patients undergoing chemotherapy. <b>2018</b> , 57, 268-277		12
334	Gene expression differences among different MSI statuses in colorectal cancer. <i>International Journal of Cancer</i> , <b>2018</b> , 143, 1731-1740	7.5	68
333	An examination of critical parameters in hybridization-based epigenotyping using magnetic microparticles. <b>2018</b> , 34, 1589-1595		1
332	CpG Islands in Cancer: Heads, Tails, and Sides. <b>2018</b> , 1766, 49-80		13
331	Comparative Molecular Analysis of Gastrointestinal Adenocarcinomas. 2018, 33, 721-735.e8		228
330	MLH1-rheMac hereditary nonpolyposis colorectal cancer syndrome in rhesus macaques.  Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2806-2811	11.5	4
329	Somatic mutations of the coding microsatellites within the beta-2-microglobulin gene in mismatch repair-deficient colorectal cancers and adenomas. <b>2018</b> , 17, 91-100		11
328	Genes and Cancer. <b>2018</b> , 493-527.e6		
327	Consequences of testing for mismatch repair deficiency of colorectal cancer in clinical practice. <b>2018</b> , 53, 632-636		5
326	Colorectal Cancers Developed from Proximal and Distal Tumor Location Belong to the Distinct Genetic Entity and Show Different Oncologic Behavior. <b>2018</b> , 81-91		
325	Molecular Diagnosis and Targeting for Thoracic and Gastrointestinal Malignancy. 2018,		O
324	Site-specific Differences in Colonic Adenocarcinoma: KRAS Mutations and High Tumor Budding Are More Frequent in Cecal Adenocarcinoma. <b>2018</b> , 42, 351-358		11
323	Recent Advances in Lynch Syndrome: Diagnosis, Treatment, and Cancer Prevention. <b>2018</b> , 38, 101-109		33
322	Lung cancer early detection and health disparities: the intersection of epigenetics and ethnicity. <b>2018</b> , 10, 2498-2507		8
321	Expression and epigenetic regulatory mechanism of BNIP3 in clear cell renal cell carcinoma. <b>2019</b> , 54, 348-360		13
320	Updates on immunotherapy for colorectal cancer. <b>2018</b> , 9, 160-169		97
319	The proto CpG island methylator phenotype of sessile serrated adenomas/polyps. 2018, 13, 1088-1105		10
318	Resveratrol epigenetically regulates the expression of zinc´finger protein´36 in non-small cell lung cancer cell lines. <b>2019</b> , 41, 1377-1386		13

317	and Colorectal Cancer. <b>2018</b> , 8, 371	52
316	Application of LC-MS/MS to the searching of methylated exons in colorectal cancer tissues. <b>2018</b> , 41, 705-712	
315	Emerging role of precision medicine in biliary tract cancers. <b>2018</b> , 2, 21	19
314	Prognostic value of the combination of microsatellite instability and mutation in colorectal cancer. <b>2018</b> , 10, 3911-3929	15
313	Identification of key tumorigenesis-related genes and their microRNAs in colon cancer. <b>2018</b> , 40, 3551-3560	18
312	Clinicopathological and molecular differences between right-sided and left-sided colorectal cancer in Japanese patients. <b>2018</b> , 48, 609-618	18
311	Genomics of Peritoneal Malignancies. <b>2018</b> , 27, 463-475	5
310	Mechanisms of Gastrointestinal Malignancies. <b>2018</b> , 1615-1642	1
309	Inherent and toxicant-provoked reduction in DNA repair capacity: A key mechanism for personalized risk assessment, cancer prevention and intervention, and response to therapy. <b>2018</b> , 221, 993-1006	7
308	Comparison of DNMT1 inhibitors by methylome profiling identifies unique signature of 5-aza-2'deoxycytidine. <b>2018</b> , 10, 1085-1101	4
307	Telomere Maintenance Mechanisms in Cancer. <b>2018</b> , 9,	56
306	Evaluation of Promoter Methylation of RASSF1A and ATM in Peripheral Blood of Breast Cancer Patients and Healthy Control Individuals. <b>2018</b> , 19,	12
305	Is increased colorectal screening effective in preventing distant disease?. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200462 <sub>3.7</sub>	2
304	Potential for Mitochondrial DNA Sequencing in the Differential Diagnosis of Gynaecological Malignancies. <b>2018</b> , 19,	11
303	Infection in Colorectal Cancer: Linking Inflammation, DNA Mismatch Repair and Genetic and Epigenetic Alterations. <b>2018</b> , 2, 37-46	26
302	The Molecular Basis of Lynch-like Syndrome. <b>2018</b> , 21-41	1
301	Mismatch repair-deficient status associates with favorable prognosis of Eastern Chinese population with sporadic colorectal cancer. <b>2018</b> , 15, 7007-7013	6
300	The therapeutic significance of mutational signatures from DNA repair deficiency in cancer. <i>Nature Communications</i> , <b>2018</b> , 9, 3292	96

299	Molecular Basis of Diseases of the Gastrointestinal Tract. 2018, 387-415	1
298	Targeting Chromatin Remodeling for Cancer Therapy. <b>2019</b> , 12, 215-229	16
297	Evaluation of DNA Mismatch Repair Protein Deficiency in Primary Endometrial Carcinoma. <b>2019</b> , 35, 177-183	1
296	Aberrant DNA methylation defines isoform usage in cancer, with functional implications. <b>2019</b> , 15, e1007095	8
295	Targeted next generation sequencing screening of Lynch syndrome in Tunisian population. <b>2019</b> , 18, 343-348	1
294	BRAF Mutation and Its Importance in Colorectal Cancer. <b>2019</b> ,	5
293	Pitfalls in molecular diagnostics. <b>2019</b> , 36, 342-354	7
292	Role of immune checkpoint inhibitors in the treatment of colorectal cancer: focus on nivolumab. <b>2019</b> , 19, 1247-1263	19
291	Epigenetic heterogeneity in cancer. <b>2019</b> , 7, 23	73
290	Serrated Colorectal Cancer: The Road Less Travelled?. <b>2019</b> , 5, 742-754	14
290 289	Serrated Colorectal Cancer: The Road Less Travelled?. 2019, 5, 742-754  Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. Cancers, 2019, 11,  6.6	14 5
	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in	
289	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. <i>Cancers</i> , <b>2019</b> , 11,	5
289	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. <i>Cancers</i> , <b>2019</b> , 11,  DNA Methylation Cancer Biomarkers: Translation to the Clinic. <b>2019</b> , 10, 1150  Molecular mutation characteristics of mismatch and homologous recombination repair genes in gastrointestinal cancer. <b>2019</b> , 18, 2789-2798  The Impact of the Epigenetic Cancer Drug Azacitidine on Host Immunity: The Role of	5
289 288 287	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. <i>Cancers</i> , <b>2019</b> , 11,  DNA Methylation Cancer Biomarkers: Translation to the Clinic. <b>2019</b> , 10, 1150  Molecular mutation characteristics of mismatch and homologous recombination repair genes in gastrointestinal cancer. <b>2019</b> , 18, 2789-2798  The Impact of the Epigenetic Cancer Drug Azacitidine on Host Immunity: The Role of	5 140 1
289 288 287 286	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. <i>Cancers</i> , <b>2019</b> , 11,  DNA Methylation Cancer Biomarkers: Translation to the Clinic. <b>2019</b> , 10, 1150  Molecular mutation characteristics of mismatch and homologous recombination repair genes in gastrointestinal cancer. <b>2019</b> , 18, 2789-2798  The Impact of the Epigenetic Cancer Drug Azacitidine on Host Immunity: The Role of Myelosuppression, Iron Overload and tp53 Mutations in a Zebrafish Model. <i>Cancers</i> , <b>2019</b> , 11,  Enhanced CRISPR-based DNA demethylation by Casilio-ME-mediated RNA-guided coupling of	5 140 1
289 288 287 286	Genomic-Destabilization-Associated Mutagenesis and Clonal Evolution of Cells with Mutations in Tumor-Suppressor Genes. Cancers, 2019, 11,  DNA Methylation Cancer Biomarkers: Translation to the Clinic. 2019, 10, 1150  Molecular mutation characteristics of mismatch and homologous recombination repair genes in gastrointestinal cancer. 2019, 18, 2789-2798  The Impact of the Epigenetic Cancer Drug Azacitidine on Host Immunity: The Role of Myelosuppression, Iron Overload and tp53 Mutations in a Zebrafish Model. Cancers, 2019, 11,  Enhanced CRISPR-based DNA demethylation by Casilio-ME-mediated RNA-guided coupling of methylcytosine oxidation and DNA repair pathways. Nature Communications, 2019, 10, 4296  Transcriptional alterations in glioma result primarily from DNA methylation-independent	5 140 1 1

281	Insight into the selective binding mechanism of DNMT1 and DNMT3A inhibitors: a molecular simulation study. <b>2019</b> , 21, 12931-12947	23
280	Integrative Genome-Scale DNA Methylation Analysis of a Large and Unselected Cohort Reveals 5 Distinct Subtypes of Colorectal Adenocarcinomas. <b>2019</b> , 8, 269-290	23
279	Cross-platform Data Analysis Reveals a Generic Gene Expression Signature for Microsatellite Instability in Colorectal Cancer. <b>2019</b> , 2019, 6763596	6
278	DNA repair in personalized brain cancer therapy with temozolomide and nitrosoureas. <b>2019</b> , 78, 128-141	47
277	Differential regulation of CpG island methylation within divergent and unidirectional promoters in colorectal cancer. <b>2019</b> , 110, 1096-1104	5
276	Downregulation of SPTAN1 is related to MLH1 deficiency and metastasis in colorectal cancer. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213411	13
275	Molecular Subtypes Are Frequently Discordant Between Lesions in Patients With Synchronous Colorectal Cancer: Molecular Analysis of 59 Patients. <b>2019</b> , 39, 1425-1432	2
274	Clinicopathologic Features of Mismatch Repair-Deficient Anaplastic Thyroid Carcinomas. <b>2019</b> , 29, 666-673	13
273	Stratification of patients with colorectal cancer without the recorded family history. <b>2019</b> , 17, 3649-3656	5
272	The mismatch repair-dependent DNA damage response: Mechanisms and implications. <b>2019</b> , 78, 60-69	42
271	Combined prognostic value of CD274 (PD-L1)/PDCDI (PD-1) expression and immune cell infiltration in colorectal cancer as per mismatch repair status. <b>2019</b> , 32, 866-883	19
270	HDAC6 regulates DNA damage response via deacetylating MLH1. <b>2019</b> , 294, 5813-5826	11
269	Clinical value of MLH1-negative circulating tumor cells in lung cancer patients. <b>2019</b> , 98, e15721	2
268	Colon Cancer. 2019,	2
267	Benzene metabolite 1,2,4-benzenetriol changes DNA methylation and histone acetylation of erythroid-specific genes in K562 cells. <b>2019</b> , 93, 137-147	10
266	Universal screening for Lynch syndrome in a large consecutive cohort of Chinese colorectal cancer patients: High prevalence and unique molecular features. <i>International Journal of Cancer</i> , <b>2019</b> , 144, 2167-216	58 <sup>15</sup>
265	Fusion Kinases Identified by Genomic Analyses of Sporadic Microsatellite Instability-High Colorectal Cancers. <b>2019</b> , 25, 378-389	33
264	Epigenetic regulation of DNA repair genes and implications for tumor therapy. <b>2019</b> , 780, 15-28	28

263	Diagnostic Value of Circulating Free DNA Integrity and Global Methylation Status in Gall Bladder Carcinoma. <b>2019</b> , 25, 925-936	9
262	The emerging role of epigenetic therapeutics in immuno-oncology. <b>2020</b> , 17, 75-90	116
261	Modifications of H3K4 methylation levels are associated with DNA hypermethylation in acute myeloid leukemia. <b>2020</b> , 287, 1155-1175	5
260	Pathology, Biomarkers, and Molecular Diagnostics. <b>2020</b> , 225-253.e8	3
259	Construction of Novel DNA Methylation-Based Prognostic Model to Predict Survival in Glioblastoma. <b>2020</b> , 27, 718-728	7
258	Therapeutic Targeting of the Colorectal Tumor Stroma. <b>2020</b> , 158, 303-321	23
257	Reliable Clinical MLH1 Promoter Hypermethylation Assessment Using a High-Throughput Genome-Wide Methylation Array Platform. <b>2020</b> , 22, 368-375	8
256	Immunohistochemistry in screening for heritable colorectal cancer: what to do with an abnormal result. <b>2020</b> , 90, 702-707	3
255	MLH1 promoter hypermethylation: are you absolutely sure about the absence of MLH1 germline mutation? About a new case. <b>2020</b> , 19, 11-14	2
254	Epigenetics of colorectal cancer: biomarker and therapeutic potential. <b>2020</b> , 17, 111-130	191
<sup>254</sup>	Epigenetics of colorectal cancer: biomarker and therapeutic potential. <b>2020</b> , 17, 111-130  Epigenetic based synthetic lethal strategies in human cancers. <b>2020</b> , 8, 44	191
253	Epigenetic based synthetic lethal strategies in human cancers. <b>2020</b> , 8, 44  Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA	9
253	Epigenetic based synthetic lethal strategies in human cancers. <b>2020</b> , 8, 44  Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA Methylation. <b>2020</b> , 92, 10223-10227  Duration of FOLFOX Adjuvant Chemotherapy in High-Risk Stage II and Stage III Colon Cancer With	9
253 252 251	Epigenetic based synthetic lethal strategies in human cancers. 2020, 8, 44  Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA Methylation. 2020, 92, 10223-10227  Duration of FOLFOX Adjuvant Chemotherapy in High-Risk Stage II and Stage III Colon Cancer With Deficient Mismatch Repair. 2020, 10, 579478  P53 expression and micro-vessel density in relation with 5-year survival in patients with colorectal	9 7 2
253 252 251 250	Epigenetic based synthetic lethal strategies in human cancers. 2020, 8, 44  Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA Methylation. 2020, 92, 10223-10227  Duration of FOLFOX Adjuvant Chemotherapy in High-Risk Stage II and Stage III Colon Cancer With Deficient Mismatch Repair. 2020, 10, 579478  P53 expression and micro-vessel density in relation with 5-year survival in patients with colorectal cancer. 2020, 57, 311-314	9 7 2 2
253 252 251 250 249	Epigenetic based synthetic lethal strategies in human cancers. 2020, 8, 44  Development of Oxidation Damage Base-Based Fluorescent Probe for Direct Detection of DNA Methylation. 2020, 92, 10223-10227  Duration of FOLFOX Adjuvant Chemotherapy in High-Risk Stage II and Stage III Colon Cancer With Deficient Mismatch Repair. 2020, 10, 579478  P53 expression and micro-vessel density in relation with 5-year survival in patients with colorectal cancer. 2020, 57, 311-314  Use of DNA methylation profiling in translational oncology. 2020,	9 7 2 2

245	Experience of mismatch repair/microsatellite instability (MMR/MSI) testing among patients with advanced/metastatic colorectal cancer in the US. <b>2020</b> , 36, 1355-1361	1
244	Implications of Hereditary Origin on the Immune Phenotype of Mismatch Repair-Deficient Cancers: Systematic Literature Review. <b>2020</b> , 9,	8
243	Mismatch Repair-Deficient Rectal Cancer and Resistance to Neoadjuvant Chemotherapy. <b>2020</b> , 26, 3271-3279	41
242	Dynamic Signatures of the Epigenome: Friend or Foe?. <b>2020</b> , 9,	8
241	Clinical Outcomes in Patients With Colon Cancer With Microsatellite Instability of Sporadic or Familial Origin Treated With Adjuvant FOLFOX With or Without Cetuximab: A Pooled Analysis of the PETACC8 and N0147 Trials. <b>2020</b> , 4,	4
240	Targeted sequencing of genes associated with the mismatch repair pathway in patients with endometrial cancer. <i>PLoS ONE</i> , <b>2020</b> , 15, e0235613	2
239	The MLH1 polymorphism rs1800734 and risk of endometrial cancer with microsatellite instability.  Clinical Epigenetics, 2020, 12, 102  7-7	2
238	Prognostic and therapeutic molecular markers in the clinical management of esophageal cancer. <b>2020</b> , 20, 401-411	6
237	Cell-Selective Cytotoxicity of a Fluorescent Rhodium Metalloinsertor Conjugate Results from Irreversible DNA Damage at Base Pair Mismatches. <b>2020</b> , 59, 717-726	7
236	A DNA methylation signature to improve survival prediction of gastric cancer. <i>Clinical Epigenetics</i> , <b>2020</b> , 12, 15	27
235	Pathology of Peritoneal Metastases. <b>2020</b> ,	О
<sup>235</sup>	Pathology of Peritoneal Metastases. <b>2020</b> ,  Spontane, hereditfle und CED-assoziierte Pathogenese des kolorektalen Karzinoms. <b>2020</b> , 18, 39-48	0
		0
234	Spontane, hereditfie und CED-assoziierte Pathogenese des kolorektalen Karzinoms. <b>2020</b> , 18, 39-48  Somatic Nonepigenetic Mismatch Repair Gene Aberrations Underly Most Mismatch	
234	Spontane, hereditfie und CED-assoziierte Pathogenese des kolorektalen Karzinoms. 2020, 18, 39-48  Somatic Nonepigenetic Mismatch Repair Gene Aberrations Underly Most Mismatch Repair-Deficient Lynch-Like Tumors. 2021, 160, 1414-1416.e3  Characterization and Clinical Outcomes of DNA Mismatch Repair-deficient Small Bowel	1
<ul><li>234</li><li>233</li><li>232</li></ul>	Spontane, hereditfe und CED-assoziierte Pathogenese des kolorektalen Karzinoms. 2020, 18, 39-48  Somatic Nonepigenetic Mismatch Repair Gene Aberrations Underly Most Mismatch Repair-Deficient Lynch-Like Tumors. 2021, 160, 1414-1416.e3  Characterization and Clinical Outcomes of DNA Mismatch Repair-deficient Small Bowel Adenocarcinoma. 2021, 27, 1429-1437  Combination of lysine-specific demethylase 6A (KDM6A) and mismatch repair (MMR) status is a	1
<ul><li>234</li><li>233</li><li>232</li><li>231</li></ul>	Spontane, hereditfe und CED-assoziierte Pathogenese des kolorektalen Karzinoms. 2020, 18, 39-48  Somatic Nonepigenetic Mismatch Repair Gene Aberrations Underly Most Mismatch Repair-Deficient Lynch-Like Tumors. 2021, 160, 1414-1416.e3  Characterization and Clinical Outcomes of DNA Mismatch Repair-deficient Small Bowel Adenocarcinoma. 2021, 27, 1429-1437  Combination of lysine-specific demethylase 6A (KDM6A) and mismatch repair (MMR) status is a potential prognostic factor in colorectal cancer. 2021, 10, 317-324	1

227	Evaluating the utility of tumour mutational signatures for identifying hereditary colorectal cancer and polyposis syndrome carriers. <b>2021</b> , 70, 2138-2149		6
226	An "expressionistic" look at serrated precancerous colorectal lesions. <b>2021</b> , 16, 4		2
225	Epigenetic regulations in gastrointestine: Implications on sensitivity to ionizing radiation, inflammatory diseases, and cancer development. <b>2021</b> , 199-235		
224	Methylation multiplicity and its clinical values in cancer. <b>2021</b> , 23, e2		6
223	OTUB1 stabilizes mismatch repair protein MSH2 by blocking ubiquitination. <b>2021</b> , 296, 100466		2
222	Dickkopf 1 impairs the tumor response to PD-1 blockade by inactivating CD8+ T cells in deficient mismatch repair colorectal cancer. <b>2021</b> , 9,		5
221	Identification of potential candidate genes for lip and oral cavity cancer using network analysis. <i>Genomics and Informatics</i> , <b>2021</b> , 19, e4	1.9	1
220	Histone deacetylase 2: A potential therapeutic target for cancer and neurodegenerative disorders. <b>2021</b> , 216, 113332		5
219	Wedding of Molecular Alterations and Immune Checkpoint Blockade: Genomics as a Matchmaker. <b>2021</b> ,		6
218	Interspecies cell fusion between mouse embryonic stem cell and porcine pluripotent cell. <b>2021</b> , 56, 109	95-1103	B
217	Mechanisms of Immune Escape and Resistance to Checkpoint Inhibitor Therapies in Mismatch Repair Deficient Metastatic Colorectal Cancers. <i>Cancers</i> , <b>2021</b> , 13,	( (	6
	, , , , ,	6.6	0
216	Heterogeneity of Colorectal Cancer Progression: Molecular Gas and Brakes. <b>2021</b> , 22,	6.6	4
216 215		6.6	4 5
	Heterogeneity of Colorectal Cancer Progression: Molecular Gas and Brakes. 2021, 22,  Microsatellite Instability in Colorectal Cancers: Carcinogenesis, Neo-Antigens, Immuno-Resistance		4
215	Heterogeneity of Colorectal Cancer Progression: Molecular Gas and Brakes. 2021, 22,  Microsatellite Instability in Colorectal Cancers: Carcinogenesis, Neo-Antigens, Immuno-Resistance and Emerging Therapies. <i>Cancers</i> , 2021, 13,  Epigenetic Regulation of Intestinal Stem Cells and Disease: A Balancing Act of DNA and Histone	6.6	5
215 214	Heterogeneity of Colorectal Cancer Progression: Molecular Gas and Brakes. 2021, 22,  Microsatellite Instability in Colorectal Cancers: Carcinogenesis, Neo-Antigens, Immuno-Resistance and Emerging Therapies. <i>Cancers</i> , 2021, 13,  Epigenetic Regulation of Intestinal Stem Cells and Disease: A Balancing Act of DNA and Histone Methylation. 2021, 160, 2267-2282	6.6	5
215 214 213	Heterogeneity of Colorectal Cancer Progression: Molecular Gas and Brakes. 2021, 22,  Microsatellite Instability in Colorectal Cancers: Carcinogenesis, Neo-Antigens, Immuno-Resistance and Emerging Therapies. <i>Cancers</i> , 2021, 13,  Epigenetic Regulation of Intestinal Stem Cells and Disease: A Balancing Act of DNA and Histone Methylation. 2021, 160, 2267-2282  Prevalence and Landscape of Actionable Genomic Alterations in Renal Cell Carcinoma. 2021, 27, 5595-5	6.6	<ul><li>4</li><li>5</li><li>6</li><li>3</li></ul>

## (2015-2021)

209	DNA methylation as a mediator of associations between the environment and chronic diseases: A scoping review on application of mediation analysis. <b>2021</b> , 1-27		3
208	Interaction between Microsatellite Instability (MSI) and Tumor DNA Methylation in the Pathogenesis of Colorectal Carcinoma. <i>Cancers</i> , <b>2021</b> , 13,	6.6	1
207	Gut Microbiota and Colorectal Cancer. <b>2022</b> , 357-357		
206	Genome-Scale Methylation Analysis of Circulating Cell-Free DNA in Gastric Cancer Patients. 2021,		O
205	De novo DNA methyltransferase activity in colorectal cancer is directed towards H3K36me3 marked CpG islands. <i>Nature Communications</i> , <b>2021</b> , 12, 694	17.4	7
204	The Role of H3K4 Trimethylation in CpG Islands Hypermethylation in Cancer. <b>2021</b> , 11,		2
203	Epigenetic Mechanisms in Cancer Formation and Progression. 253-298		2
202	DNA mismatch repair and colon cancer. <b>2005</b> , 570, 85-123		19
201	Molecular mechanisms of human carcinogenesis. <b>2006</b> , 321-49		17
200	Getting familiar with familial colon cancer. 27-60		1
199	Mismatch repair competency predicts 5-fluorouracil effectiveness on patient survival. 72-84		1
198	Epigenetic Silencing of Progeroid Syndromes. <b>2010</b> , 345-369		1
197	Germline mutation induction at mouse and human tandem repeat DNA loci. 2003, 518, 115-29		14
196	Cancer epigenetics: DNA methylation and chromatin alterations in human cancer. 2003, 532, 39-49		94
195	The Role of Genomic Instability in the Development of Human Cancer. 2002, 115-142		5
194	Hereditary Colorectal Cancer. <b>2017</b> , 381-400		2
193	Genomic Instability, DNA Repair Pathways and Cancer. <b>2008</b> , 269-279		1
192	Synthetic Genetic Approaches in Colorectal Cancer: Exploiting and Targeting Genome Instability. <b>2015</b> , 179-204		1

191	Epigenetic Disturbances in Colorectal Cancer. <b>2014</b> , 283-298	1
190	DNA methylation, genomic imprinting and cancer. <b>2000</b> , 249, 87-99	43
189	CpG-island methylation in aging and cancer. <b>2000</b> , 249, 101-18	215
188	Mapping the epigenomeimpact for toxicology. <b>2009</b> , 99, 259-88	13
187	Methylation in Colorectal Cancer. <b>2015</b> , 373-455	1
186	Biomarkers in the Management of Peritoneal Metastases. <b>2020</b> , 251-279	1
185	Molecular Basis of Diseases of the Gastrointestinal Tract. <b>2009</b> , 365-393	2
184	CHAPTER 4:Targeting DNA Methylation. <b>2015</b> , 68-95	1
183	HPP1: a transmembrane protein-encoding gene commonly methylated in colorectal polyps and cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 265- $70^{1.5}$	56
182	Loss of imprinting of the insulin-like growth factor II gene occurs by biallelic methylation in a core region of H19-associated CTCF-binding sites in colorectal cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 591-6	113
181	Genetic Modifiers of Cancer Risk. <b>2006</b> , 577-600	1
180	Cancers of the Colon and Rectum. <b>2006</b> , 809-829	48
179	Genetic factors affecting the impact of DNA polymerase delta proofreading activity on mutation avoidance in yeast. <b>1999</b> , 152, 47-59	42
178	Immunohistochemistry for hMLH1 and hMSH2: a practical test for DNA mismatch repair-deficient tumors. <b>1999</b> , 23, 1248-55	209
177	Molecular advances in gynecologic oncology. <b>1999</b> , 11, 394-400	3
176	Evaluating the utility of tumour mutational signatures for identifying hereditary colorectal cancer and polyposis syndrome carriers.	1
175	The proto CpG island methylator phenotype of sessile serrated adenomas/polyps.	1
174	Genome Scale Epigenetic Profiling Reveals Five Distinct Subtypes of Colorectal Cancer.	1

## (2016-2003)

173	Inactivation of hMLH1 and hMSH2 by promoter methylation in primary non-small cell lung tumors and matched sputum samples. <b>2003</b> , 111, 887-95		110
172	Deficiencies in Chfr and Mlh1 synergistically enhance tumor susceptibility in mice. <b>2009</b> , 119, 2714-24		22
171	Epigenetic gene silencing in cancer. <b>2000</b> , 105, 401-7		118
170	Hypermethylation of the DAP-Kinase CpG Island Is a Common Alteration in B-Cell Malignancies. <b>1999</b> , 93, 4347-4353		24
169	Resistance to 5-aza-2'-deoxycytidine in genic regions compared to non-genic repetitive sequences. <b>2010</b> , 56, 86-93		10
168	Hypermethylation of the putative tumor-suppressor genes DCC, p51/63 and O6-methylguanine-DNA methyltransferase (MGMT) and loss of their expressions in cell lines of hematological malignancies. <b>2005</b> , 72, 270-7		2
167	An integrative genomic and epigenomic approach for the study of transcriptional regulation. <i>PLoS ONE</i> , <b>2008</b> , 3, e1882	·7	72
166	Specific variants in the MLH1 gene region may drive DNA methylation, loss of protein expression, and MSI-H colorectal cancer. <i>PLoS ONE</i> , <b>2010</b> , 5, e13314	·7	32
165	Investigating the potential role of genetic and epigenetic variation of DNA methyltransferase genes in hyperplastic polyposis syndrome. <i>PLoS ONE</i> , <b>2011</b> , 6, e16831	·7	8
164	Kras gene mutation and RASSF1A, FHIT and MGMT gene promoter hypermethylation: indicators of tumor staging and metastasis in adenocarcinomatous sporadic colorectal cancer in Indian population. <i>PLoS ONE</i> , <b>2013</b> , 8, e60142	·7	47
163	Mismatch repair-deficient crypt foci in Lynch syndromemolecular alterations and association with clinical parameters. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121980	-7	37
162	Constitutional Mosaic Epimutations - a hidden cause of cancer?. <b>2019</b> , 3, 118-135		10
161	Tumors with unmethylated MLH1 and the CpG island methylator phenotype are associated with a poor prognosis in stage II colorectal cancer patients. <b>2016</b> , 7, 86480-86489		14
160	HDAC-4 regulates claudin-2 expression in EGFR-ERK1/2 dependent manner to regulate colonic epithelial cell differentiation. <b>2017</b> , 8, 87718-87736		10
159	promoter methylation accelerates colon cancer cell migration. 2018, 9, 36750-36769		3
158	Aberrant gene methylation in non-neoplastic mucosa as a predictive marker of ulcerative colitis-associated CRC. <b>2016</b> , 7, 10322-31		27
157	Epigenomics in cancer management. <b>2010</b> , 2, 255-65		20
156	Epigenetic Loss of MLH1 Expression in Normal Human Hematopoietic Stem Cell Clones is Defined by the Promoter CpG Methylation Pattern Observed by High-Throughput Methylation Specific Sequencing. <b>2016</b> , 3,		6

155	Colorectal cancer carcinogenesis: a review of mechanisms. <b>2016</b> , 13, 120-35	84
154	[DNA methyltransferases: classification, functions and research progress]. <b>2009</b> , 31, 903-12	6
153	Immunohistochemical expression of mismatch repair genes: a screening tool for predicting mutator phenotype in liver fluke infection-associated intrahepatic cholangiocarcinoma. <b>2006</b> , 12, 3740-5	13
152	Microsatellite instability and MLH1 promoter hypermethylation in colorectal cancer. <b>2007</b> , 13, 1767-9	38
151	Re-expression of methylation-induced tumor suppressor gene silencing is associated with the state of histone modification in gastric cancer cell lines. <b>2007</b> , 13, 6166-71	28
150	Promoter methylation status of hMLH1, MGMT, and CDKN2A/p16 in colorectal adenomas. <b>2010</b> , 16, 3553-60	41
149	Germline promoter hypermethylation of tumor suppressor genes in gastric cancer. <b>2012</b> , 18, 70-8	13
148	Clinical applications of next-generation sequencing in colorectal cancers. <b>2013</b> , 19, 6784-93	26
147	Comparative study of mutations in SNP loci of K-RAS, hMLH1 and hMSH2 genes in neoplastic intestinal polyps and colorectal cancer. <b>2014</b> , 20, 18338-45	4
146	Immune therapies in pancreatic ductal adenocarcinoma: Where are we now?. 2018, 24, 2137-2151	67
145	Aberrant crypt foci as microscopic precursors of colorectal cancer. <b>2003</b> , 9, 2642-9	103
144	Mutation and methylation of hMLH1 in gastric carcinomas with microsatellite instability. 2003, 9, 655-9	39
143	Colorectal carcinoma: Pathologic aspects. <b>2012</b> , 3, 153-73	282
142	Mismatch repair protein expression in colorectal cancer. <b>2013</b> , 4, 397-408	33
141	Implications of mismatch repair-deficient status on management of early stage colorectal cancer. <b>2015</b> , 6, 676-84	40
140	The significance of genetics for cholangiocarcinoma development. <b>2013</b> , 1, 28	16
139	Molecular biology of colorectal cancer: Review of the literature. <b>2013</b> , 03, 72-80	20
138	Inflammation-associated microsatellite alterations: Mechanisms and significance in the prognosis of patients with colorectal cancer. <b>2018</b> , 10, 1-14	28

137	Clinical significance of / for stage II/III sporadic colorectal cancer. <b>2019</b> , 11, 1065-1080	9
136	Molecular approach to genetic and epigenetic pathogenesis of early-onset colorectal cancer. <b>2016</b> , 8, 83-98	17
135	CpG island methylator phenotype in adenocarcinomas from the digestive tract: Methods, conclusions, and controversies. <b>2017</b> , 9, 105-120	8
134	Epigenetic changes (aberrant DNA methylation) in colorectal neoplasia. <b>2007</b> , 1, 1-11	34
133	Colorectal carcinogenesis. <b>2001</b> , 47, 1-11	4
132	Prognostic value of hMLH1 and hMSH2 immunohistochemical expression in non-small cell lung cancer. A tissue microarray study. <b>2006</b> , 150, 255-9	9
131	Tumor-associated methylation of the putative tumor suppressor AJAP1 gene and association between decreased AJAP1 expression and shorter survival in patients with glioma. <b>2011</b> , 30, 247-53	19
130	Colon cancer testing and screening. <b>1999</b> , 123, 1027-9	7
129	Performance of the revised Bethesda guidelines for identification of colorectal carcinomas with a high level of microsatellite instability. <b>2005</b> , 129, 1390-7	46
128	Molecular diagnostics of colorectal cancer. <b>2011</b> , 135, 578-87	41
128	Molecular diagnostics of colorectal cancer. <b>2011</b> , 135, 578-87  Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. <b>2014</b> , 15, 7091-5	41 5
	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks	
127	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. <b>2014</b> , 15, 7091-5  Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells.	5
127	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. <b>2014</b> , 15, 7091-5  Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. <b>2019</b> , 8,  Construction of a New Tumor Immunity-Related Signature to Assess and Classify the Prognostic	5 44
127 126 125	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. 2014, 15, 7091-5  Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. 2019, 8,  Construction of a New Tumor Immunity-Related Signature to Assess and Classify the Prognostic Risk of Colorectal Cancer. 2021, 14, 6661-6676  Evolutionary patterns of chromosomal instability and mismatch repair deficiency in proximal and	5 44 1
127 126 125	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. 2014, 15, 7091-5  Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. 2019, 8,  Construction of a New Tumor Immunity-Related Signature to Assess and Classify the Prognostic Risk of Colorectal Cancer. 2021, 14, 6661-6676  Evolutionary patterns of chromosomal instability and mismatch repair deficiency in proximal and distal colorectal cancer. 2021,  GENETIC ANALYSIS OF hMLH1 IN TRANSITIONAL CELL CARCINOMA OF THE URINARY TRACT:	5 44 1 0
127 126 125 124	Expression of BMP6 is associated with its methylation status in colorectal cancer tissue but lacks prognostic significance. 2014, 15, 7091-5  Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells. 2019, 8,  Construction of a New Tumor Immunity-Related Signature to Assess and Classify the Prognostic Risk of Colorectal Cancer. 2021, 14, 6661-6676  Evolutionary patterns of chromosomal instability and mismatch repair deficiency in proximal and distal colorectal cancer. 2021,  GENETIC ANALYSIS OF hMLH1 IN TRANSITIONAL CELL CARCINOMA OF THE URINARY TRACT: PROMOTER METHYLATION OR MUTATION. 2001, 1760-1764	5 44 1 0

119	Genetic Instability.	
118	Biology and Molecular Genetics of Colorectal Cancer. <b>2002</b> , 3-21	
117	References. <b>2003</b> , 170-236	
116	The molecular pathology of inflammatory bowel disease-associated neoplasia and preneoplasia. <b>2003</b> , 711-718	
115	Role of hMLH1 Gene Hypermethylation in Endometrial Carcinogenesis. 2003, 232-244	
114	Folate and Cancer Chemoprevention. <b>2004</b> , 559-582	1
113	Genetische Grundlagen der Kanzerogenese. <b>2004</b> , 75-145	1
112	Genomic Instability, DNA Repair Pathways, and Cancer. <b>2004</b> , 491-504	
111	Genetic testing and surgeon decision. <b>2004</b> , 51, 57-60	
110	Role of DNA Methylation in Cancer and Chemotherapy. <b>2004</b> ,	
109	Mechanisms of Gastrointestinal Malignancies. <b>2006</b> , 477-498	
108	Chapter 19:Radiation-induced Transgenerational Instability in Mice. <b>2007</b> , 224-234	
107	Genes and Cancer. <b>2007</b> , 637-667	
106	Epigenomics and Cancer. <b>2008</b> , 281-291	
105	COLORECTAL CANCER: EPIDEMIOLOGY, AETIOLOGY, PATHOLOGY, STAGING SYSTEMS, CLINICAL FEATURES, DIAGNOSIS. <b>2008</b> , 979-1027	
104	MOLECULAR BIOLOGY OF COLORECTAL CANCER. 2008, 867-896	
103	Molecular Genetics and Cancer Risks in Lynch Syndrome. <b>2008</b> , 129-147	
102	Genomic Instability in Colorectal Cancer; from Bench to Bed. <b>2009</b> , 25, 129	

Polyposis Syndromes and Colorectal Cancer Predisposition. **2010**, 545-559

100	DNA Mismatch Repair. <b>2010</b> , 67-85	
99	Epigenetic Changes in Cancer: Role of Environment. <b>2010</b> , 153-196	2
98	Mouse Models for Colorectal Cancer. <b>2012</b> , 309-329	
97	Genetics of Colon Cancer Susceptibility. <b>2012</b> , 23-45	
96	Colorectal Cancer. <b>2012</b> , 245-272	
95	Biology and Genetics of Colorectal Cancer and Polyps and Polyposis. 428-437	0
94	Epigenetic Drivers of Genetic Alterations in Cancer.	
93	Molecular Pathology of Colon and Small Bowel Cancers: Sporadic Type. <b>2013</b> , 131-140	
92	Human Cancer Epigenetics. <b>2013</b> , 269-293	
91	NUCLEOTIDE EXCISION REPAIR (NER). <b>2013</b> , 26-38	
90	Colorectal Cancer Genome and Its Implications. <b>2013</b> , 247-265	
89	A case of syncronised hereditery nonpoliposis colorectal tumor with different hystopathological type and k-ras gene mutation: case report. <b>2013</b> , 5, 67-9	1
88	DNA IS THE CRITICAL TARGET. <b>2013</b> , 113-114	
87	Deoxyribonucleic acid (DNA) methylation and its impact in generation of cancer. <b>2014</b> , 3, 181	
86	Pathology, Biomarkers, and Molecular Diagnostics. <b>2014</b> , 226-252.e6	
85	Aberrant DNA Methylation. <b>2014</b> ,	
84	Specific type epigenetic changes in cervical cancers. <b>2015</b> , 1238, 733-49	5

83	DNA Damage Response Pathways in Cancer Predisposition and Progression. <b>2015</b> , 39-74
82	CHAPTER 10:Dosing âlWhen Less is More. <b>2015</b> , 249-266
81	Neoplasia of the Gastrointestinal Tract. 587-616
80	Colorectal Cancer. <b>2016</b> , 403-417
79	A molecular portrait of microsatellite instability across multiple cancers.
78	Immunohistochemical Markers in Endometrial Carcinoma. <b>2017</b> , 43-63
77	Mismatch Repair System and Aging: Microsatellite Instability in Peripheral Blood Cells of the Elderly. <b>2018</b> , 1-22
76	A molecular inversion probe and sequencing-based microsatellite instability assay for high throughput cancer diagnostics and Lynch syndrome screening.
75	Most of transcriptional alterations in glioma result from DNA-methylation independent mechanisms.
74	Werner syndrome helicase is a selective vulnerability of microsatellite instability-high tumor cells.
73	Molecular Diagnostics and Genomic Profiling in Individualized Therapies of Gastrointestinal Cancers. <b>2019</b> , 613-631
72	Mismatch Repair System and Aging: Microsatellite Instability in Peripheral Blood Cells of the Elderly. <b>2019</b> , 483-504
71	Casilio-ME: Enhanced CRISPR-based DNA demethylation by RNA-guided coupling methylcytosine oxidation and DNA repair pathways.
70	GEFT protein expression in digestive tract malignant tumors and its clinical significance. <b>2019</b> , 18, 5577-5590 <sub>2</sub>
69	Correlation-based and feature-driven mutation signature analyses to identify genetic features associated with DNA mutagenic processes in cancer genomes.
68	Syndromic Epithelial Polyps of the Gastrointestinal Tract. <b>2021</b> , 367-386
67	Immune Targets in Colorectal Cancer. <b>2020</b> , 205-230
66	Mechanisms of abnormal gene expression in tumor cells. <b>2006</b> , 351-61

## (2021-2009)

65	Mismatch Repair System and Aging: Microsatellite Instability in Peripheral Blood Cells of the Elderly and in the T-cell Clone Longitudinal Model. <b>2009</b> , 257-276	
64	CpG Island Methylation and Drug Resistance. <b>2006</b> , 359-375	
63	Molecular Targeting of Colorectal Cancer. <b>2008</b> , 133-163	
62	Genetic Pathways in Pancreatic Tumorigenesis. <b>2008</b> , 513-526	
61	Genetic susceptibility to non-polyposis colorectal cancer. <b>1999</b> , 36, 801-18	500
60	Epigenetics and epigenetic alterations in pancreatic cancer. <i>International Journal of Clinical and Experimental Pathology</i> , <b>2009</b> , 2, 310-26	51
59	Microsatellite instability at tetranucleotide repeats in sporadic colorectal cancer in Japan. <b>2010</b> , 23, 551-61	34
58	Messenger RNA expression and methylation of candidate tumor-suppressor genes and risk of ovarian cancer-a case-control analysis. <b>2010</b> , 1, 1-10	19
57	Molecular and physiological mechanisms of membrane receptor systems functioning. <b>2011</b> , 3, 20-8	
56	Unbalanced replication as a major source of genetic instability in cancer cells. <b>2012</b> , 2, 160-9	7
55	Hypoxia and DNA repair. <b>2013</b> , 86, 443-51	19
54	HEREDITARY, SPORADIC AND METASTATIC COLORECTAL CANCER ARE COMMONLY DRIVEN BY SPECIFIC SPECTRUMS OF DEFECTIVE DNA MISMATCH REPAIR COMPONENTS. <b>2016</b> , 127, 81-97	15
53	Molecular genetic changes in benign colorectal tumors synchronous with microsatellite unstable carcinomas do not support a field defect. <b>2017</b> , 8, 27-39	2
52	Hypermethylated and its clinical significance in colorectal cancer. <b>2018</b> , 10, 4290-4301	3
51	Microsatellite instability in colorectal cancer: overview of its clinical significance and novel perspectives. <b>2018</b> , 16, 735-745	40
50	Translational epigenetics in precision medicine of colorectal cancer. <b>2022</b> , 19-41	
49	Molecular and phenotypic profiling of colorectal cancer patients in West Africa reveals biological insights. <i>Nature Communications</i> , <b>2021</b> , 12, 6821	2
48	Predictive molecular markers for the treatment with immune checkpoint inhibitors in colorectal cancer. <b>2021</b> , 36, e24141	3

Biomarkers in Gastrointestinal System Carcinomas. **2022**, 165-199

46	Beyond the genetic lesions: gene inactivation by promoter hypermethylation in human cancer. <b>2000</b> , 2, 61-66		113
45	Pharmacogenomic research and serum DNA analysis in the treatment of non-small cell lung cancer. <b>2001</b> , 3, 60-71		2
44	Molecular Analysis of Colorectal Cancers Suggests a High Frequency of Lynch Syndrome in Indonesia <i>Cancers</i> , <b>2021</b> , 13,	6.6	O
43	Appendiceal sessile serrated lesions are distinct from their right-sided colonic counterparts and may be precursors for appendiceal mucinous neoplasms <b>2022</b> ,		O
42	GMMchi: Gene Expression Clustering Using Gaussian Mixture Modeling.		
41	High Expression of Casein Kinase 2 Alpha Is Responsible for Enhanced Phosphorylation of DNA Mismatch Repair Protein MLH1 and Increased Tumor Mutation Rates in Colorectal Cancer <i>Cancers</i> , <b>2022</b> , 14,	6.6	О
40	Global genomic instability caused by reduced expression of DNA polymerase In yeast  Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e211958811	9 <sup>11.5</sup>	1
39	Regulation of micro-RNA, epigenetic factor by natural products for the treatment of cancers: Mechanistic insight and translational association <b>2022</b> , 29, 103255		O
38	Neoadjuvant Immunotherapy for MSI-H/dMMR Locally Advanced Colorectal Cancer: New Strategies and Unveiled Opportunities <b>2022</b> , 13, 795972		4
37	Patterns of indolence in prostate cancer (Review) 2022, 23, 351		1
36	The Potential Role of Genomic Signature in Stage II Relapsed Colorectal Cancer (CRC) Patients: A Mono-Institutional Study <b>2022</b> , 14, 1353-1369		O
35	The Two-Hit Hypothesis Meets Epigenetics <b>2022</b> , 82, 1167-1169		1
34	Somatic Genomic Testing in Patients With Metastatic or Advanced Cancer: ASCO Provisional Clinical Opinion <i>Journal of Clinical Oncology</i> , <b>2022</b> , JCO2102767	2.2	7
33	Correlation-based and feature-driven mutation signature analyses to identify genetic features associated with DNA mutagenic processes in cancer genomes <i>Genomics and Informatics</i> , <b>2021</b> , 19, e40	1.9	0
32	Haploinsufficiency by minute MutL homolog 1 promoter DNA methylation may represent unique phenotypes of microsatellite instability-gastric carcinogenesis <i>PLoS ONE</i> , <b>2021</b> , 16, e0260303	3.7	
31	Protein phosphatase 2A inactivation induces microsatellite instability, neoantigen production and immune response <i>Nature Communications</i> , <b>2021</b> , 12, 7297	17.4	1
30	DNA methylation variation along the cancer epigenome and the identification of novel epigenetic driver events. <i>Nucleic Acids Research</i> , <b>2021</b> ,	20.1	1

29	Defects in MMR Genes as a Seminal Example of Personalized Medicine: From Diagnosis to Therapy Journal of Personalized Medicine, <b>2021</b> , 11,	3.6	1
28	The paradigm of drug resistance in cancer: an epigenetic perspective <i>Bioscience Reports</i> , <b>2022</b> , 42,	4.1	2
27	Table_1.docx. <b>2020</b> ,		
26	Table_2.docx. <b>2020</b> ,		
25	Table_3.docx. <b>2020</b> ,		
24	Combined therapy with cisplatin and 5-AZA-2CdR modifies methylation and expression of DNA repair genes in oral squamous cell carcinoma <i>International Journal of Clinical and Experimental Pathology</i> , <b>2022</b> , 15, 131-144	1.4	
23	Biomarkers of Response and Resistance to Immunotherapy in Microsatellite Stable Colorectal Cancer: Toward a New Personalized Medicine <i>Cancers</i> , <b>2022</b> , 14,	6.6	1
22	Transcriptional Control Leading to Clinical Outcomes in Breast Cancer Cases. <b>2022</b> , 281-336		
21	Genomic landscape of microsatellite instability in Chinese tumors: a comparison of Chinese and TCGA cohorts <i>International Journal of Cancer</i> , <b>2022</b> ,	7.5	О
20	Clinicopathologic significance of DNA mismatch repair protein status in endometrial cancer. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , <b>2022</b> , 61, 415-421	1.6	O
19	Targeted genetic and epigenetic profiling of esophageal adenocarcinomas and non-dysplastic BarrettâB esophagus. <i>Clinical Epigenetics</i> , <b>2022</b> , 14,	7.7	
18	Use of DNA from Human Stools to Detect Aberrant CpG Island Methylation of Genes Implicated in Colorectal Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , <b>2004</b> , 13, 1495-1501	4	14
17	Developmental Pathways Are Epigenetically Reprogrammed during Lung Cancer Brain Metastasis. <b>2022</b> , 82, 2692-2703		1
16	Microsatellite instability and oncological outcomes in Thai patients with endometrial cancer. 1-7		
15	Using empirical biological knowledge to infer regulatory networks from multi-omics data. <b>2022</b> , 23,		1
14	Insight into the molecular mechanism of action of anticancer drugs. <b>2023</b> , 477-502		O
13	An overview of cancer and the human microbiome. <b>2022</b> ,		О
12	Genome wide DNA methylation analysis identifies novel molecular subgroups and predicts survival in neuroblastoma.		2

11	DNA methylation regulator-mediated modification pattern defines tumor microenvironment immune infiltration landscape in colon cancer. 13,	О
10	Epigenomic effects of vitamin D in colorectal cancer.	О
9	Genes and cancer: Genetic counselling and clinical management. 2023, 521-559.e6	O
8	Lynch syndrome, molecular mechanisms and variant classification.	O
7	Recognition of 5-methyl-CG and CG base pairs in duplex DNA with high stability using antiparallel-type triplex-forming oligonucleotides with 2-guanidinoethyl-2?-deoxynebularine. <b>2022</b> , 50, 12071-12081	1
6	DNA Mismatch Repair Proteins and BRAF V600E Detection by Immunohistochemistry in Colorectal Cancer Demonstrates Concordance with Next Generation Sequencing. <b>2022</b> , 3, 339-354	O
5	Functional characterization of MLH1 missense variants unveils mechanisms of pathogenicity and clarifies role in cancer. <b>2022</b> , 17, e0278283	0
4	Role of epigenetics in pancreatic ductal adenocarcinoma.	O
3	Epigenetics in cancer development, diagnosis and therapy. 2023,	O
2	MLH1-methylated endometrial cancer under 60 years of age as the allentinelale carriers of high-risk constitutional MLH1 epimutation. <b>2023</b> , 171, 129-140	O
1	A robust microsatellite instability detection model for unpaired colorectal cancer tissue samples. Publish Ahead of Print,	0