

O6-Methylguanine-DNA Methyltransferase

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Recent Publications on O6-Methylguanine-DNA Methyltransferase:



- [Transcriptional repression of O6-methylguanine DNA methyltransferase gene rendering cells hypersensitive to N,N'-bis\(2-chloroethyl\)-N-nitrosurea in camptothecin-resistant cells.](#)
*O(6)-Methylguanine-DNA methyltransferase (MGMT) is a DNA repair protein...*23rd August, 2008
National Institute of Cancer Research, National Health Research- Mol Pharmacol. 2008 Aug;74(2):517-26. Epub 2008 May 20. ([DOI Direct Link](#))
- [Individual adjuvant therapy for malignant gliomas based on O6-methylguanine-DNA methyltransferase messenger RNA quantitation by real-time reverse-transcription polymerase chain-reaction.](#)
*A new adjuvant therapy, individual adjuvant therapy (IAT), which is...*22nd August, 2008
Department of Neurosurgery, Kawasaki Hospital, Ibaraki 313-8511, Japan.- Oncol Rep. 2008 Jul;20(1):165-71.
- [Careful exclusion of non-neoplastic brain components is required for an appropriate evaluation of O6-methylguanine-DNA methyltransferase status in glioma: relationship between immunohistochemistry and methylation analysis.](#)
*Evaluation of O6-methylguanine-DNA methyltransferase (MGMT) expression is...*15th August, 2008
Laboratory of Molecular and Cellular Pathology, Hokkaido University- Am J Surg Pathol. 2008 Aug;32(8):1220-7. ([DOI Direct Link](#))
- [Relevance of MSP assay for the detection of MGMT promoter hypermethylation in glioblastomas.](#)
*O6-Methylguanine-DNA methyltransferase (MGMT) promoter hypermethylation...*13th August, 2008
Department of Neurological Surgery, Nihon University School of Medicine,- Int J Oncol. 2008 Sep;33(3):469-75.
- [Reciprocal relationship between O6-methylguanine-DNA methyltransferase P140K expression level and chemoprotection of hematopoietic stem cells.](#)
*Retroviral-mediated delivery of the P140K mutant O(6)-methylguanine-DNA...*5th August, 2008
Division of Experimental Hematology, Cincinnati Children's Hospital- Cancer Res. 2008 Aug 1;68(15):6171-80. ([DOI Direct Link](#))
- [Different initial steps of apoptosis induced by two types of antineoplastic drugs.](#)
*O6-Methylguanine and O6-chloroethylguanine are primary DNA lesions...*5th August, 2008
Frontier Research Center, Fukuoka Dental College, 2-15-1, Tamura,- Biochem Pharmacol. 2008 Aug 1;76(3):303-11. Epub 2008 May 15. ([DOI Direct Link](#))
- [O6-Methylguanine-DNA-methyltransferase in recurring anaplastic ependymomas: PCR and immunohistochemistry.](#)
*Ependymomas are the third most common brain tumor in children. The post...*22nd July, 2008
Department of Human Pathology and Oncology, University of Florence,- J Chemother. 2008

Apr;20(2):263-8.

- [Validation of real-time methylation-specific PCR to determine O6-methylguanine-DNA methyltransferase gene promoter methylation in glioma.](#)
*Epigenetic silencing of the DNA repair protein O(6)-methylguanine-DNA...*17th June, 2008
OncoMethylome Sciences SA, Tour 5 GIGA (B34), +3, Avenue de l'Hopital 11,- J Mol Diagn. 2008 Jul;10(4):332-7. Epub 2008 Jun 13. ([DOI Direct Link](#))
- [Alterations in S-adenosylhomocysteine metabolism decrease O6-methylguanine DNA methyltransferase gene expression without affecting promoter methylation.](#)
*The DNA repair enzyme O(6)-methylguanine DNA methyltransferase (MGMT)...*14th June, 2008
Department of Pharmacology and Toxicology, Faculty of Medicine, University- Biochem Pharmacol. 2008 Jun 1;75(11):2100-11. Epub 2008 Mar 8. ([DOI Direct Link](#))
- [A methylation-specific and SYBR-green-based quantitative polymerase chain reaction technique for O6-methylguanine DNA methyltransferase promoter methylation analysis.](#)
*The O(6)-methylguanine DNA methyltransferase (MGMT) gene encodes a DNA...*13th June, 2008
Department of Anatomy, University of Kiel, Olshausenstr. 40, 24098 Kiel,- Anal Biochem. 2008 Jun 1;377(1):62-71. Epub 2008 Mar 14. ([DOI Direct Link](#))
- [An O6-methylguanine-DNA Methyltransferase-like Protein from Thermus thermophilus Interacts with a Nucleotide Excision Repair Protein.](#)
*The major damage to DNA caused by alkylating agents involves the formation...*17th May, 2008
Department of Biological Sciences, Graduate School of Science, Osaka- J Biochem. 2008 Aug;144(2):267-77. Epub 2008 May 15. ([DOI Direct Link](#))
- [Survival and tumorigenesis in O6-methylguanine DNA methyltransferase-deficient mice following cyclophosphamide exposure.](#)
*O(6)-methylguanine DNA methyltransferase (MGMT) deficiency is associated...*15th May, 2008
Department of Pediatrics.- Mutagenesis. 2008 May 13. ([DOI Direct Link](#))
- [Ras regulation of DNA-methylation and cancer.](#)
*Genome wide hypomethylation and regional hypermethylation of cancer cells...*15th May, 2008
Cancer Epigenetics Research, Kalyani (B-7/183), Nadia, West Bengal, India.- Exp Cell Res. 2008 Apr 1;314(6):1193-201. Epub 2008 Jan 26. ([DOI Direct Link](#))
- [Anti-O6-Methylguanine-Methyltransferase \(MGMT\) Immunohistochemistry in Glioblastoma Multiforme: Observer Variability and Lack of Association with Patient Survival Impede Its Use as Clinical Biomarker.](#)
*Silencing of O6-methylguanine-DNA methyltransferase (MGMT) protein...*11th April, 2008
Department of Internal Medicine 1, Medical University of Vienna, Vienna,- Brain Pathol. 2008 Apr 8. ([DOI Direct Link](#))
- [O6-Methylguanine-DNA methyltransferase inactivation and chemotherapy.](#)
*INTRODUCTION: Alkylating agents are frequently used in the chemotherapy of...*5th February, 2008
Cancer Research UK Carcinogenesis Group, Paterson Institute for Cancer- Br Med Bull. 2008;85:17-33. Epub 2008 Feb 1. ([DOI Direct Link](#))

O6-Methylguanine-DNA Methyltransferase Clinical Trials:



- [Combination Chemotherapy Plus Gene Therapy in Treating Patients With CNS Tumors](#)
Bone Marrow Suppression; Brain and Central Nervous System Tumors; Drug/Agent Toxicity by Tissue/Organ



O6-Methylguanine-DNA Methyltransferase Patents:

- 7229759- [Highly sensitive method for the detection of cytosine methylation patterns](#)
- 6046036- [DNA sequences encoding fusions of DNA repair proteins and uses thereof](#)
- 6200754- [Inhibitors of alternative alleles of genes encoding products that mediate cell response to environmental changes](#)
- 6465448- [Methoxyamine potentiation of temozolomide anti-cancer activity](#)
- 6635677- [Methoxyamine combinations in the treatment of cancer](#)
- 6652853- [Method for treating cancer using A33 specific antibodies and chemotherapeutic agents](#)
- 6800649- [Method for inhibiting c-jun expression using JAK-3 inhibitors](#)
- 6911306- [TMS1 compositions and methods of use](#)
- 7214485- [Nested methylation-specific polymerase chain reaction cancer detection method](#)
- 6017962- [Method of depletion of methionine in plasma and solid tumors and uses thereof](#)

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