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Unique case of oligoastrocytoma with recurrence and grade progression: Exhibiting differential expression of HMGA1 and hTERT

Puneet Gandhi, Richa Khare, Kavita Niraj, Nitin Garg, Sandeep K. Sorte and Hanni Gulwani

#### Abstract

2 Mixed gliomas, primarily oligoastrocytomas, account for about 5-10% of all gliomas.

Distinguishing oligoastrocytoma based on histological features alone has limitations in predicting the exact biological behavior, necessitating ancillary markers for greater specificity. In this case report, Human Telomerase Reverse Transcriptase (hTERT) and High Mobility Group-A1 (HMGA1); markers of proliferation and stemness, have been quantitatively analyzed in formalin-fixed paraffin-embedded tissue samples of a 34 year old patient with oligoastrocytoma. Customized florescence-based immunohistochemistry protocol with enhanced sensitivity and specificity is used in the study. The patient presented with a history of general seizures and his MRI scans revealed infiltrative ill-defined mass lesion with calcified foci within the left frontal white matter, suggestive of glioma. He was surgically treated at our center for four

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### Abstracts from the World Federation of Neuro-Oncology ...

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In more than 80% of cases, the first manifestation of low-grade glioma (LGG) is a ... The most frequently considered differential diagnosis includes encephalitis in ... On the other hand, tumors with P53 expression are more heterogeneous: .... However, about two-thirds of adults with LGG will develop tumor progression by five ...

缺少字词: hmga1

### BIOLOGY - NCBI - National Institutes of Health

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作者: TIN ETANTR - 2012

RESULTS: TF was highly expressed on vascular endothelial cells of ... To our knowledge this is the second case report of this tumor presenting as an isolated .... risk of cancer development or recurrence in humans treated with  $\beta$ -blocking agents..... HGG exhibit differential expression of chemokines and related receptors.

缺少字词: hmga1

### Abstracts from the Eleventh International Symposium on ...

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The majority of high-grade glioma patients die within a several years of diagnosis. ... IV) represents the most malignant form of astrocytoma with a time to progression .... The two arrays together evaluate the expression of 24,698 unique genes. ... of recurrent vs. nonrecurrent PAs), and sets of genes showing differential RNA ...



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### Complete Issue (PDF) - Neuro-Oncology - Oxford Journals

[https://neuro-oncology.oxfordjournals.org/content/17/suppl\\_5/.../complete-issue.pdf](https://neuro-oncology.oxfordjournals.org/content/17/suppl_5/.../complete-issue.pdf) ▾

2015年11月19日 - OBJECT: The prognosis of recurrent glioblastoma multiforme (GBM) ... Progression-free survival at 6 months after ICE treatment was 35% (95% CI ..... WHO grade IV malignant glioma were enrolled after surgical intervention. .... differential expression of microRNAs (miRs) in tumor and normal cells. We.

### DAVID: Database for Annotation, Visualization, and Integrated ...

<https://david.ncifcrf.gov/geneReportFull.jsp?rowids=809345> ▾ 翻译此页

May also influence disease recurrence interval and survival time. .... p53 activity exhibited up-regulation of surface CD95 after ionizing irradiation. The ..... were not associated with other classic recurrence and tumor progression parameters. .... expression of hTERT reduces the number of foci and the level of active p53. ....

### significantly reduces glioma: Topics by WorldWideScience.org

[worldwidescience.org/topicpages/s/significantly+reduces+glioma.html](http://worldwidescience.org/topicpages/s/significantly+reduces+glioma.html)

We found that the expression of PAX3 was upregulated in high-grade glioma tissues .... progression in low-grade gliomas with high pre-treatment uptake of MET. .... However, fixed and permeabilized cells exhibited positive staining as ..... Adult Brain Tumor; Adult Anaplastic Oligoastrocytoma; Recurrent High Grade Glioma.

### glioma cells involvement: Topics by WorldWideScience.org

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ASPM-associated stem cell proliferation is involved in malignant progression of ... Aspm expression was strongly correlated with tumor grade and increased at .... and that may be extrapolated to the differential aggressiveness of glioma tumors. .... Adult Brain Tumor; Adult Anaplastic Oligoastrocytoma; Recurrent High Grade ...

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## Abstracts for the Eleventh Annual Meeting of the Society for Neuro ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > [NCBI](#) > [Literature](#) > [PubMed Central \(PMC\)](#) ▾

In this study, we examined the effects of **human** brain endothelial cells .... The morphology of the vessels also changes with **higher grade**. ... and **exhibit** a significantly **higher expression** of the pro-angiogenic growth factors: ..... surgical and chemotherapeutic intervention, tumor **recurrence** or **progression** is almost universal.

## TP53 tumor protein p53 [ (human)] - NCBI

[www.ncbi.nlm.nih.gov/gene/7157](http://www.ncbi.nlm.nih.gov/gene/7157) ▾ [翻译此页](#)

6 天前 - Report **differential expression** of TP53/Bcl-3/c-kit protein in pure versus .... regulate the HIPK2-p53 cell death pathway. **identified a unique case** of adult acute B-cell ... **high grade** endometrial carcinomas are highly associated with TP53 ..... p53, **human telomerase reverse transcriptase**, Wilms tumor-1, and ...

## Abstracts for the Thirteenth Annual Meeting of the Society for Neuro ...

[neuro-oncology.oxfordjournals.org/content/10/5/759.full](http://neuro-oncology.oxfordjournals.org/content/10/5/759.full) ▾

In **human** glioblastoma multiforme (GBM), signaling through the ..... C282Y-expressing glioma cells also **expressed high** levels of p16INK4A protein. Thus ..... primary brain endothelial cells was measured by **reverse transcriptase** and real-time PCR. .... and **oligoastrocytomas**) from five **case-control** studies of adult gliomas.

## TP53

[proteom.elte.hu/\\_networks/anxiety/Anxiety-ox-stress/1426.html](http://proteom.elte.hu/_networks/anxiety/Anxiety-ox-stress/1426.html) ▾ [翻译此页](#)

A **case-control** study showed that polymorphism in codon 72 of the p53 gene was not a .... and p53 pathways and **recurrent** mechanisms which play into the **unique** genetic .... **Differential expression** of genes induced by resveratrol in LNCaP cells: ... to inhibitors of **human** immunodeficiency virus type 1 **reverse transcriptase**