

## Prof. Koray ÖZDUMAN

### Personal Information

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### Education Information

Expertise In Medicine, Marmara University, School Of Medicine, Surgical Medical Sciences, Turkey 1998 - 2005

Post Graduate, Istanbul University, Istanbul Medical Faculty, Turkey 1992 - 1998

### Dissertations

Expertise In Medicine, Mouse cerebrovascular development model: Gene array Analysis of the newborn retina, Marmara University, School Of Medicine, Surgical Medical Sciences, 2005

### Research Areas

Medicine, Surgery Medicine Sciences, Nervous System Surgery

### Academic Titles / Tasks

Professor, Acibadem Mehmet Ali Aydinlar University, School Of Medicine, Department Of Surgecal Sciences, 2016 - Continues

Associate Professor, Acibadem Mehmet Ali Aydinlar University, 2012 - 2016

Assistant Professor, Acibadem Mehmet Ali Aydinlar University, 2009 - 2012

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Mutations and Copy Number Alterations in *IDH* Wild-Type Glioblastomas Are Shaped by Different Oncogenic Mechanisms.**  
Ülgen E., Karacan S., Gerlevik U., Can Ö., Bilguvar K., Oktay Y., B Akyerli C., K Yüksel Ş., E Danyeli A., Tihan T., et al.  
Biomedicines, vol.8, 2020 (Journal Indexed in SCI Expanded)
- II. **Associations of Meningioma Molecular Subgroup and Tumor Recurrence.**  
Youngblood M. W. , Miyagishima D. F. , Jin L., Gupte T., Li C., Duran D., Montejo J. D. , Zhao A., Sheth A., Tyrtova E., et al.  
Neuro-oncology, 2020 (Journal Indexed in SCI Expanded)
- III. **Identification of IDH and TERTp mutation status using  $^{13}C$ -MRS in 112 hemispheric diffuse gliomas.**  
Ozturk-Isik E., Cengiz S., Ozcan A., Yakicier C., Ersen D., Pamir M. N. , Özduman K., Dincer A.  
Journal of magnetic resonance imaging : JMRI, vol.51, pp.1799-1809, 2020 (Journal Indexed in SCI Expanded)

- IV. **Clinoidal meningiomas.**  
Pamir M., Özduman K.  
Handbook of clinical neurology, vol.170, pp.25-35, 2020 (Journal Indexed in SCI)
- V. **Current decision-making in meningiomas.**  
Pamir M. N. , Özduman K.  
Handbook of clinical neurology, vol.169, pp.229-252, 2020 (Journal Indexed in SCI Expanded)
- VI. **Elderly Patients with Intracranial Meningioma: Surgical Considerations in 228 Patients with a Comprehensive Analysis of the Literature.**  
Ekşi M. Ş. , Canbolat C., Akbas A., Ozmen B. B. , Akpınar E., Usseli M. İ. , Güngör A., Güdük M., Hacıhanefioglu M., Danyeli A., et al.  
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- VII. **Correlations between genomic subgroup and clinical features in a cohort of more than 3000 meningiomas.**  
Youngblood M., Duran D., Montejo J, Li C., Omay S., Özduman K., Sheth A., Zhao A., Tyrtova E., Miyagishima D., et al.  
Journal of neurosurgery, pp.1-10, 2019 (Journal Indexed in SCI Expanded)
- VIII. **Ventricular Meningiomas: Surgical Strategies and a New Finding That Suggest an Origin From the Choroid Plexus Epithelium.**  
Güngör A., Danyeli A., Akbas A., Ekşi M. Ş. , Güdük M., Özduman K., Pamir M. N.  
World neurosurgery, vol.129, 2019 (Journal Indexed in SCI)
- IX. **Sphenoid Wing Meningiomas: Surgical Outcomes in a Series of 141 Cases and Proposal of a Scoring System Predicting Extent of Resection**  
Güdük M., Özduman K., Pamir M. N.  
WORLD NEUROSURGERY, vol.125, 2019 (Journal Indexed in SCI)
- X. **Whole exome sequencing-based analysis to identify DNA damage repair deficiency as a major contributor to gliomagenesis in adult diffuse gliomas.**  
Ülgen E., Can Ö., Bilguvar K., Oktay Y., Akyerli C., Danyeli A., Yakıcıer M. C. , Sezerman O. U. , Pamir M. N. , Özduman K.  
Journal of neurosurgery, pp.1-12, 2019 (Journal Indexed in SCI Expanded)
- XI. **Meningiomas Display a Specific Immunoexpression Pattern in a Rostrocaudal Gradient: An Analysis of 366 Patients**  
Ülgen E., Bektaşoğlu P., Sav M., Can Ö., Danyeli A., Hızal D., Pamir M. N. , Özduman K.  
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- XII. **Use of telomerase promoter mutations to mark specific molecular subsets with reciprocal clinical behavior in IDH mutant and IDH wild-type diffuse gliomas**  
AKYERLİ BOYLU C., Yuksel Ş., CAN Ö., Erson-Omay E. Z. , OKTAY Y., COŞGUN E., Ulgen E., Erdemgil Y., Sav A., von Deimling A., et al.  
JOURNAL OF NEUROSURGERY, vol.128, pp.1102-1114, 2018 (Journal Indexed in SCI)
- XIII. **Longitudinal analysis of treatment-induced genomic alterations in gliomas**  
Erson-Omay E. Z. , Henegariu O., Omay S. B. , Harmanci A. S. , Youngblood M. W. , Mishra-Gorur K., Li J., ÖZDUMAN K., Carrion-Grant G., Clark V. E. , et al.  
GENOME MEDICINE, vol.9, 2017 (Journal Indexed in SCI)
- XIV. **Pterional and Unifrontal Approaches for the Microsurgical Resection of Olfactory Groove Meningiomas: Experience with 61 Consecutive Patients.**  
Güdük M., Yener U., Sun H. I. , Hacıhanefioglu M., Özduman K., Pamir M. N.  
Turkish neurosurgery, vol.27, pp.707-715, 2017 (Journal Indexed in SCI)
- XV. **IDH-mutant glioma specific association of rs55705857 located at 8q24.21 involves MYC deregulation**  
OKTAY Y., Ulgen E., CAN Ö., AKYERLİ BOYLU C., Yuksel Ş., Erdemgil Y., Durasi I. M. , Henegariu O. I. , Nanni E. P. , Selevsek N., et al.  
SCIENTIFIC REPORTS, vol.6, 2016 (Journal Indexed in SCI)
- XVI. **Integrated genomic characterization of IDH1-mutant glioma malignant progression**  
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- XVII. **Somatic POLE mutations cause an ultramutated giant cell high-grade glioma subtype with better prognosis**  
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- XVIII. **Sporadic Spinal Hemangioblastomas Can be Effectively Treated by Microsurgery Alone**  
Sun H. I. , ÖZDUMAN K., Usseli M. İ. , Ozgen S., Pamir M. N.  
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- XIX. **Quantification of fibrin degradation products in glioma and meningioma patients**  
CAN Ö., Erdemgil Y., Yildirim Z. Z. , ÖZDUMAN K., Pamir M. N. , Sav A., ÖZPINAR A.  
CANCER BIOMARKERS, vol.14, pp.253-258, 2014 (Journal Indexed in SCI)
- XX. **Using intraoperative dynamic contrast-enhanced T1-weighted MRI to identify residual tumor in glioblastoma surgery**  
ÖZDUMAN K., Yildiz E., Dincer A., Sav A., Pamir M. N.  
JOURNAL OF NEUROSURGERY, vol.120, pp.60-66, 2014 (Journal Indexed in SCI)
- XXI. **Intraoperative magnetic resonance spectroscopy and gliomas Response**  
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- XXII. **Intraoperative magnetic resonance spectroscopy for identification of residual tumor during low-grade glioma surgery Clinical article**  
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- XXIII. **Genomic Analysis of Non-NF2 Meningiomas Reveals Mutations in TRAF7, KLF4, AKT1, and SMO**  
Clark V. E. , Erson-Omay E. Z. , Serin A., Yin J., Cotney J., ÖZDUMAN K., Avsar T., Li J., Murray P. B. , Henegariu O., et al.  
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- XXIV. **The Impact of German-Speaking Academicians on Higher Education in Turkey**  
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WORLD NEUROSURGERY, vol.79, pp.25-31, 2013 (Journal Indexed in SCI)
- XXV. **LuIII parvovirus selectively and efficiently targets, replicates in, and kills human glioma cells.**  
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- XXVI. **Oncolytic Virus Therapy for Glioblastoma Multiforme Concepts and Candidates**  
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- XXVII. **Aneurysmal Subdural Hemorrhage Due To Pericallosal Artery Aneurysms**  
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- XXVIII. **Current Status of Neurosurgery in Turkey**  
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- XXIX. **Temporal expression of angiogenesis-related genes in developing neonatal rodent retina: a novel in vivo model to study cerebral vascular development.**  
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- XXX. **First intraoperative, shared-resource, ultrahigh-field 3-Tesla magnetic resonance imaging system and its application in low-grade glioma resection Clinical article**  
Pamir M. N. , ÖZDUMAN K., Dincer A., Yildiz E., Peker S., Ozek M. M.  
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- XXXI. **Peripheral immunization blocks lethal actions of vesicular stomatitis virus within the brain.**  
Ozduman K., Wollmann G., Ahmadi S., van d.

- Journal of virology, vol.83, pp.11540-9, 2009 (Journal Indexed in SCI)
- XXXII. **3-T ultrahigh-field intraoperative MRI for low-grade glioma resection.**  
Pamir M. N. , ÖZDUMAN K.  
Expert review of anticancer therapy, vol.9, pp.1537-9, 2009 (Journal Indexed in SCI)
- XXXIII. **Viral strategies for studying the brain, including a replication-restricted self-amplifying delta-G vesicular stomatitis virus that rapidly expresses transgenes in brain and can generate a multicolor golgi-like expression.**  
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The Journal of comparative neurology, vol.516, pp.456-81, 2009 (Journal Indexed in SCI)
- XXXIV. **Anterior clinoidal meningiomas: analysis of 43 consecutive surgically treated cases.**  
Pamir M. N. , Belirgen M., Ozduman K., Kilic T., Oezek M.  
Acta neurochirurgica, vol.150, 2008 (Journal Indexed in SCI Expanded)
- XXXV. **Systemic vesicular stomatitis virus selectively destroys multifocal glioma and metastatic carcinoma in brain.**  
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The Journal of neuroscience : the official journal of the Society for Neuroscience, vol.28, pp.1882-93, 2008 (Journal Indexed in SCI)
- XXXVI. **Adenoviral-mediated gene transfer into the canine brain in vivo - Comments**  
Chiocca E. A. , Ozduman K., Piepmeier J. M.  
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- XXXVII. **Cytomegalovirus induces interferon-stimulated gene expression and is attenuated by interferon in the developing brain.**  
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- XXXVIII. **Non-meningeal tumours of the cavernous sinus: a surgical analysis.**  
Pamir M. N. , Kilic T., Ozek M. M. , Ozduman K., Ture U.  
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- XXXIX. **Analysis of radiological features relative to histopathology in 42 skull-base chordomas and chondrosarcomas.**  
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- XL. **The galenic venous system: surgical anatomy and its angiographic and magnetic resonance venographic correlations.**  
Kilic T., Ozduman K., Cavdar S., Ozek M., Pamir M. N.  
European journal of radiology, vol.56, pp.212-9, 2005 (Journal Indexed in SCI Expanded)
- XLI. **Outcome determinants of pterional surgery for tuberculom sellae meningiomas.**  
Pamir M. N. , Ozduman K., Belirgen M., Kilic T., Ozek M.  
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- XLII. **Hypertension, age, and location predict rupture of small intracranial aneurysms.**  
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- XLIII. **Experience of a single institution treating foramen magnum meningiomas.**  
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- XLIV. **Relief of hemifacial spasm after radiosurgery for intracanalicular vestibular schwannoma.**  
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- XLV. **Long-term outcome after epilepsy surgery for focal cortical dysplasia.**  
Cohen-Gadol A., Ozduman K., Bronen R., Kim J., Spencer D.

Journal of neurosurgery, vol.101, pp.55-65, 2004 (Journal Indexed in SCI)

- XLVI. **Fetal stroke**  
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PEDIATRIC NEUROLOGY, vol.30, pp.151-162, 2004 (Journal Indexed in SCI)
- XLVII. **Clinicopathological review: Giant intraventricular cavernous malformation**  
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NEUROSURGERY, vol.53, pp.374-378, 2003 (Journal Indexed in SCI)
- XLVIII. **Effect of surgery on tumor progression and malignant degeneration in hemispheric diffuse low-grade astrocytomas**  
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- XLIX. **Primary hypophysitis: Idiopathic inflammatory disorders of the pituitary gland**  
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- L. **Infratentorial lateral supracerebellar approach for trochlear nerve schwannoma**  
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- LI. **Tenascin in meningioma: Expression is correlated with anaplasia, vascular endothelial growth factor expression, and peritumoral edema but not with tumor border shape**  
Kilic T, Bayri Y, Ozduman K, Acar M, Diren S, Kurtkaya O, Ekinci G, Bugra K, Sav A, Ozek M, et al.  
NEUROSURGERY, vol.51, pp.183-192, 2002 (Journal Indexed in SCI)
- LII. **Spinal hydatid disease**  
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- LIII. **Photo quiz**  
Özduman K, Kiliç T.  
Marmara Medical Journal, vol.14, 2001 (Journal Indexed in SCI)
- LIV. **Effects of valproate, phenytoin, and MK-801 in a novel model of epileptogenesis**  
Applegate C., Samoriski G., Ozduman K.  
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## Articles Published in Other Journals

- I. **Molecular Biology of Meningiomas**  
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- II. **Tumor-biology and current treatment of skull-base chordomas.**  
Pamir M. N. , Ozduman K.  
Advances and technical standards in neurosurgery, vol.33, pp.35-129, 2008 (Refereed Journals of Other Institutions)
- III. **Delayed intracerebral hemorrhage after ventriculoperitoneal shunting**  
Peker S., Özduman K., Özgen S., Pamir M. N.  
Marmara Medical Journal, vol.17, pp.28-31, 2004 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **19-Perioperative management of patients with meningiomas**  
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## Refereed Congress / Symposium Publications in Proceedings

- I. **ASSOCIATION OF RADIOMICS BASED TUMOR SHAPE IRREGULARITY MEASURES AND GAMMA KNIFE DOSE PLANNING INDICES IN VESTIBULAR SCHWANNOMAS**  
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25th Virtual Annual Scientific Meeting and Education Day of the Society-for-Neuro-Oncology (SNO), ELECTR NETWORK, 19 - 21 November 2020, vol.22, pp.160-161
- II. **ASSOCIATIONS OF GENOMIC SUBGROUP WITH RECURRENCE IN LOW-GRADE MENINGIOMAS**  
Youngblood M., Miyagishima D., Jin L., Gupte T., Li C., Duran D., Montejo J., Zhao A., Sheth A., Tyrtova E., et al.  
25th Virtual Annual Scientific Meeting and Education Day of the Society-for-Neuro-Oncology (SNO), ELECTR NETWORK, 19 - 21 November 2020, vol.22, pp.173
- III. **Mutations and copy number alterations in diffuse gliomas are shaped by different mechanisms**  
ÖZDUMAN K., Ulgen E., Karacan S., Gerlevik U., CAN Ö., Bilguvar K., Akyerli C. B. , Yuksel Ş., Ersen-Danyeli A., Tihan T., et al.  
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- IV. **Lower-Grade Gliomas With Molecular Features Of Glioblastoma Have Distinct Tumor Characteristics and Better Survival Than WHO-Grade IV Counterparts.**  
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- V. **IDH-Mutant Gliomas Differ in Distribution of Mitochondrial Genomic Alterations**  
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- VI. **Beyin Tümörlerinin Manyetik Rezonans Görüntülerinden Üç Boyutlu Modellerinin Çıkarılıp Radyomik Özelliklerinin Değerlendirilmesi**  
Dinçer A., Pamir M. N. , Özduman K., Öztürk Işık E.  
Uluslararası Katılımlı 40. Radyoloji Kongresi-TÜRKRAD, Antalya, Turkey, 6 - 09 November 2019, pp.1
- VII. **MENINGIOMA GENOMIC SUBGROUP AS A PREDICTOR OF POST-OPERATIVE PATIENT OUTCOMES: IMPLICATIONS FOR TREATMENT AND FOLLOW-UP**  
Youngblood M., Sheth A., Zhao A., Montejo J., Duran D., Li C., Tyrtova E., ÖZDUMAN K., Peyre M., Boetto J., et al.  
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- VIII. **MENINGIOMA WITH MULTIPLE DRIVERS: GENOMIC LANDSCAPE AND CLINICAL CORRELATIONS**  
Li C., Tyrtova E., Youngblood M., Miyagishima D., Duran D., Montejo J., ÖZDUMAN K., Sheth A., Zhao A., Fomchenko E., et al.  
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- IX. **Outcome Analysis Among Meningioma Genomic Subgroups Identifies Decreased Recurrence Free Survival in PI3K Activated Tumors**  
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- X. **IS THE PATHOLOGICAL-GRADE RELEVANT IN "IDH-WILD TYPE, TERT-MUTANT" DIFFUSE-GLIOMAS? AN ANALYSIS IN 147 PATIENTS**

Danyeli A., Akyerli C., DİNÇER A., Cosgun E., Abacioglu U., PAMİR M. N. , ÖZDUMAN K.

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- XI. **Chromatin Modifier Alterations Are Very Common But Mostly Random in Diffuse Gliomas**  
Özduman K., Can Ö., Erşen Danyeli A., Akyerli Boylu C., Pamir M. N.  
AANS, California, United States Of America, 13 - 17 April 2019, pp.1
- XII. **Analysis of mutational processes in 23 adult hemispheric diffuse gliomas identifies DNA-damage repair deficiency as a major contributor to gliomagenesis**  
Ozduman K., Ulgen E., Can Ö., Akyerli C., Pamir M. N.  
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- XIII. **Surgical Outcome of Adult Hemispheric Glioblastoma is Determined by the Molecular-Subset: An Analysis of 142 Patients.**  
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- XIV. **An analysis for the role of telomerase (hTERT) promoter mutations in gliomagenesis**  
Ozduman K., Akyerli C., Yuksel Ş., Can Ö., Oktay Y., Nanni P., Selevsek N., Grossmann J., Ozpinar A., Sav A., et al.  
83rd Annual Scientific Meeting of the American-Association-of-Neurological-Surgeons, San-Francisco, Costa Rica, 5 - 09 April 2014, vol.122
- XV. **Özge Can, Cemaliye Akyerli, Şirin Yüksel, Yavuz Oktay, Paolo Nanni, Nathalie Selevsek, Jonas Grossmann, Aysel Özpınar, Aydın Sav, Cengiz Yakicier, M Necmettin Pamir, Koray Özduman (2014) Tumor biomarker research in neuroscience: Application to brain tumors.**  
Can Ö., Akyerli Boylu C., Yüksel Kılıçturgay Ş., Oktay Y., Özpınar A., Yakicier M. C. , Pamir M. N. , Özduman K.  
International Workshop on MS-Based Proteomics Bioinformatics and Health Informatics,, İzmir, Turkey, 14 - 16 May 2014, pp.1
- XVI. **Analysis of the effect of 1p/19q co-deletions in WHO grade-II oligodendrogliomas**  
Can Ö., Yüksel Kılıçturgay Ş., Oktay Y., Akyerli Boylu C., Özpınar A., Yakicier M. C. , Pamir M. N. , Özduman K.  
65th Annual Meeting of the German Society of Neurosurgery, Dresden, Germany, 11 - 14 May 2014, pp.1
- XVII. **Proteomic correlation of telomerase mutations in gliomas**  
Akyerli Boylu C., Yüksel Kılıçturgay Ş., Can Ö., Oktay Y., Özpınar A., Yakicier M. C. , Pamir M. N. , Özduman K.  
65th Annual Meeting of the German Society of Neurosurgery, Dresden, Germany, 11 - 14 May 2014, pp.1
- XVIII. **Do oncogenic changes differ according to anatomic localization in low- grade gliomas?**  
Can Ö., Oktay Y., Akyerli Boylu C., Yüksel Kılıçturgay Ş., Yakicier M. C. , Pamir M. N. , Özduman K.  
American Association of Neurological Surgeons (AANS) 82nd Annual Scientific Meeting,, California, United States Of America, 5 - 09 April 2014, pp.1
- XIX. **Correlation of hTERT promoter mutations in gliomas with other major oncogenic changes**  
Özduman K., Akyerli Boylu C., Yüksel Kılıçturgay Ş., Can Ö., Oktay Y., Yakicier M. C. , Pamir M. N.  
American Association of Neurological Surgeons (AANS) 82nd Annual Scientific Meeting , California, United States Of America, 5 - 09 April 2014, pp.1
- XX. **Oncogenic changes beyond the intraoperative-MRI determined T2-hyperintense tumor border in gliomas**  
Akyerli Boylu C., Yüksel Kılıçturgay Ş., Can Ö., Oktay Y., Yakicier M. C. , Pamir M. N. , Özduman K.  
American Association of Neurological Surgeons (AANS) 82nd Annual Scientific Meeting, California, United States Of America, 5 - 09 April 2014, pp.1
- XXI. **Analysis of hTERT promoter mutations in gliomas**  
Akyerli Boylu C., Yüksel Kılıçturgay Ş., Can Ö., Oktay Y., Pamir M. N. , Özduman K.  
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- XXIV. **Subarachnoid hemorrhage caused by aneurysms smaller than 7 mm: Implications for treatment of unruptured aneurysms**  
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- XXV. **Grading angiogenesis of cerebrovascular malformations with a dynamic experimental model**  
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70th Annual Meeting of the American-Association-of-Neurological-Surgeons, CHICAGO, ILLINOIS, 6 - 11 April 2002, vol.100

### **Memberships / Tasks in Scientific Organizations**

World Academy of Neurological Surgery, Member, 2019 - Continues, United States Of America  
Society for Neurooncology, Member, 2017 - Continues, United States Of America  
AANS/CNS Section on Tumors, Member, 2015 - Continues, United States Of America  
American Association of Neurological Surgery, Member, 2015 - Continues, United States Of America

### **Scientific Refereeing**

ACTA NEUROCHIRURGICA, SCI Journal, November 2019

### **Scientific Research / Working Group Memberships**

Acibadem Üniversitesi Beyin Tümör Araştırma Grubu, Acibadem Mehmet Ali Aydınlar University, Turkey, Yoktur, 2012 - Continues

### **Citations**

Total Citations (WOS):1537  
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### **Entrepreneurship Activities**

Limited, Not Neurooncology Technologies , 04 July 2020, Co-Founder