

CURRICULUM VITAE

Zeynep Erson Omay, PhD

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Contact Information:

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School: Yale School of Medicine

Education:

09/1999 - 01/2003 BS, Bilkent University, Computer Science, Ankara, Ankara, Turkey
09/2003 - 01/2005 MS, Bilkent University, Computer Science, Ankara, Ankara, Turkey
09/2005 - 01/2011 PhD, Case Western Reserve Univ, Computer Science, Cleveland, OH

Career/Academic Appointments:

02/2011 - 06/2014 Postdoctoral Associate, Neurosurgery, Yale School of Medicine, New Haven, CT
07/2014 - 06/2016 Associate Research Scientist, Neurosurgery, Yale School of Medicine, New Haven, CT
07/2016 - 06/2020 Research Scientist, Neurosurgery, Yale School of Medicine, New Haven, CT
07/2020 - 06/2027 Assistant Professor, Neurosurgery, Yale School of Medicine, New Haven, CT
11/2023 - 06/2027 Assistant Professor, Biomedical Informatics and Data Science, Yale School of Medicine, New Haven, CT

Administrative Positions:

2023 - 2024 Neurosurgery , Biomedical Informatics and Data Science, Yale School of Medicine, New Haven, CT

Professional Honors & Recognition:

Other

2007 Case Western Reserve University, Research ShowCASE-Best Poster Award, Case Western Reserve University
2022 Mission Bio Tapestri Grant, Mission Bio
2022 10x Genomics 2021 Pilot Award , 10x Genomics

Grants/Clinical Trials History:

Current Grants

Agency: National Institute of Neurological Disorders and Stroke/NIH/DHHS
I.D.#: 1R01 NS127469-01A1
Title: Endothelial Cell Reprogramming in Familial Intracranial Aneurysm
P.I.: Murat Günel
Role: Co-Investigator
Percent effort: 10%
Total costs: \$3,172,402.00
Project period: 02/01/2023 - 01/31/2028

Current Clinical Trials

Agencies: Yale University
I.D.#: 2000021841REG
Title: Characterization of anterior skull base tumors
P.I.: Sacit Bulent Omay
Role: Sub-Investigator
Percent effort: N/A
Total costs: -
Project period: 01/12/2018 - ongoing

Invited Speaking Engagements, Presentations & Workshops Not Affiliated With Yale:

Regional

1. "Women in Technology,". Women in Tech Initiative at CWRU, Cleveland, USA, Cleveland, OH, April 2019. (Other)

Peer-Reviewed Presentations Given at Meetings Not Affiliated With Yale:

International/National

1. PHY-SIM: Physiological Simulation, Integration, Modeling Toolkit.. Engineering Principles in Biological Systems Joint Cold Spring Harbor Laboratory/Wellcome Trust Conference, Hinxton, England, May 2009. (Oral Presentation)
2. Phy-SIM: Physiological Model Simulation, Integration and Modeling Framework. VPH 2010, Virtual Physiological Human Network of Excellence Conference, Brussels, Brussels, April 2010. (Oral Presentation)
3. Genomic Profiling of Sporadic Multiple Meningiomas. Society for Neuro-Oncology, Boston, MA, November 2021. (Poster Presentation)
4. **Erson Omay Z** . The Impact of Genomic Characterization for Pituitary Adenoma Classification. North American Skull Base Society, Tampa, FL, February 2023. (Poster Presentation)

5. **Erson Omay Z** . Somatic loss of BCLAF-1 in an Encephalocele Secondary to Idiopathic Intracranial Hypertension. North American Skull Base Society, Atlanta, GA, February 2024. (Poster Presentation)
6. **Erson Omay Z** . Genomic characterization of growth hormone secreting pituitary adenomas. Society of NeuroOncology, Houston, TX, November 2024. (Poster Presentation)

Regional

1. Aspect-Oriented Design of Ant Simulation. First Turkish Aspect-Oriented Software Development Workshop, Ankara, Ankara, May 2003. (Oral Presentation)

Professional Service:

Peer Review Groups/Grant Study Sections

2009 - 2023 Ad-hoc reviewer, IEEE Engineering in Medicine and Biology Conference

Journal Services

Reviewer

2020 - Present Reviewer, Scientific Reports, Nature
2021 - 2023 Reviewer, Frontiers in Molecular Neuroscience
2021 - Present Reviewer, Cancer Immunology, Immunotherapy, Springer
2022 - 2023 Reviewer, Frontiers in Neurology
2022 - 2023 Reviewer, Frontiers in Immunology
2023 - Present Reviewer, Frontiers in Oncology
2024 - Present Reviewer, Nature Communications
2024 - Present Reviewer, Journal of Clinical Oncology
2024 - Present Reviewer, NeuroOncology Advances
2025 - Present Reviewer, BMC Cancer
2025 - Present Reviewer, NPJ Genomic Medicine
2025 - Present Reviewer, Journal of NeuroOncology

Yale University / Hospital System

Medical School

2023 - 2024 Member, Yale Taskforce for AI-YSM Basic Science Panel, Yale Taskforce on AI, YSM Basic Science Panel Member
2025 - Present Liaison, Status of Women in Medicine

Bibliography:

Peer-Reviewed Original Research

1. Dogrusoz U, **Erson EZ** , Giral E, Demir E, Babur O, Cetintas A, Colak R. PATIKAwEB: a Web interface for analyzing biological pathways through advanced querying and visualization. *Bioinformatics* (Oxford, England) 2006, 22: 374-5. [PMID: 16287939](#) , [DOI: 10.1093/bioinformatics/bti776](#) .

2. **Erson EZ** , Cavuşoğlu MC. A software framework for multiscale and multilevel physiological model integration and simulation. Annual International Conference Of The IEEE Engineering In Medicine And Biology Society. IEEE Engineering In Medicine And Biology Society. Annual International Conference 2008, 2008: 5449-53. [PMID: 19163950](#) , [DOI: 10.1109/IEMBS.2008.4650447](#) .
3. **Erson E** , Cavusoglu M. Design of a framework for modeling, integration and simulation of physiological models. Annual International Conference Of The IEEE Engineering In Medicine And Biology Society. IEEE Engineering In Medicine And Biology Society. Annual International Conference 2010, 2010: 1485-9. [PMID: 21096363](#) , [DOI: 10.1109/IEMBS.2010.5626848](#) .
4. **Erson EZ** , Cavuşoğlu MC. Design of a framework for modeling, integration and simulation of physiological models. Computer Methods And Programs In Biomedicine 2012, 107: 524-37. [PMID: 22309809](#) , [DOI: 10.1016/j.cmpb.2011.11.010](#) .
5. Clark VE, Erson-Omay EZ, Serin A, Yin J, Cotney J, Özdoğan K, Avşar T, Li J, Murray PB, Henegariu O, Yılmaz S, Günel JM, Carrión-Grant G, Yılmaz B, Grady C, Tanrikulu B, Bakırcıoğlu M, Kaymakçalan H, Çağlayan AO, Sencar L, Ceyhan E, Atik AF, Bayrı Y, Bai H, Kolb LE, Hebert RM, Omay SB, Mishra-Gorur K, Choi M, Overton JD, Holland EC, Mane S, State MW, Bilgüvar K, Baehring JM, Gutin PH, Piepmeyer JM, Vortmeyer A, Brennan CW, Pamir MN, Kılıç T, Lifton RP, Noonan JP, Yasuno K, Günel M. Genomic Analysis of Non-NF2 Meningiomas Reveals Mutations in TRAF7, KLF4, AKT1, and SMO. Science 2013, 339: 1077-1080. [PMID: 23348505](#) , [PMCID: PMC4808587](#) , [DOI: 10.1126/science.1233009](#) .
6. Vilarinho S, Erson-Omay EZ, Harmanci AS, Morotti R, Carrion-Grant G, Baranoski J, Knisely AS, Ekong U, Emre S, Yasuno K, Bilguvar K, Günel M. Paediatric hepatocellular carcinoma due to somatic CTNNB1 and NFE2L2 mutations in the setting of inherited bi-allelic ABCB11 mutations. Journal Of Hepatology 2014, 61: 1178-1183. [PMID: 25016225](#) , [DOI: 10.1016/j.jhep.2014.07.003](#) .
7. Çağlayan AO, Baranoski JF, Aktar F, Han W, Tuysuz B, Guzel A, Guclu B, Kaymakçalan H, Aktekin B, Akgumus GT, Murray PB, Erson-Omay EZ, Çağlar C, Bakırcıoğlu M, Sakalar YB, Guzel E, Demir N, Tuncer O, Senturk S, Ekici B, Minja FJ, Šestan N, Yasuno K, Bilguvar K, Caksen H, Gunel M. Brain Malformations Associated With Knobloch Syndrome—Review of Literature, Expanding Clinical Spectrum, and Identification of Novel Mutations. Pediatric Neurology 2014, 51: 806-813.e8. [PMID: 25456301](#) , [PMCID: PMC5056964](#) , [DOI: 10.1016/j.pediatrneurol.2014.08.025](#) .
8. Çağlayan AO, Comu S, Baranoski JF, Parman Y, Kaymakçalan H, Akgumus GT, Çağlar C, Dolen D, Erson-Omay EZ, Harmanci AS, Mishra-Gorur K, Freeze HH, Yasuno K, Bilguvar K, Gunel M. NGLY1 mutation causes neuromotor impairment, intellectual disability, and neuropathy. European Journal Of Medical Genetics 2014, 58: 39-43. [PMID: 25220016](#) , [PMCID: PMC4804755](#) , [DOI: 10.1016/j.ejmg.2014.08.008](#) .
9. Mishra-Gorur K, Çağlayan AO, Schaffer AE, Chabu C, Henegariu O, Vonhoff F, Akgümüş GT, Nishimura S, Han W, Tu S, Baran B, Gümüş H, Dilber C, Zaki MS, Hossni HA, Rivière JB, Kayserili H, Spencer EG, Rosti RÖ, Schroth J, Per H, Çağlar C, Çağlar Ç, Dölen D, Baranoski JF, Kumandaş S, Minja FJ, Erson-Omay EZ, Mane SM, Lifton RP, Xu T, Keshishian H, Dobyns WB, C. N, Šestan N, Louvi A, Bilgüvar K, Yasuno K, Gleeson JG, Günel M. Mutations in KATNB1 Cause Complex Cerebral Malformations by Disrupting Asymmetrically Dividing Neural Progenitors. Neuron 2014, 84: 1226-1239. [PMID: 25521378](#) , [PMCID: PMC5024344](#) , [DOI: 10.1016/j.neuron.2014.12.014](#) .
10. Mishra-Gorur K, Çağlayan AO, Schaffer AE, Chabu C, Henegariu O, Vonhoff F, Akgümüş GT, Nishimura S, Han W, Tu S, Baran B, Gümüş H, Dilber C, Zaki MS, Hossni HAA, Rivière JB, Kayserili H, Spencer EG, Rosti RÖ, Schroth J, Per H, Çağlar C, Çağlar Ç, Dölen D, Baranoski JF, Kumandaş S, Minja

- FJ, Erson-Omay EZ, Mane SM, Lifton RP, Xu T, Keshishian H, Dobyns WB, C. NC, Šestan N, Louvi A, Bilgüvar K, Yasuno K, Gleeson JG, Günel M. Mutations in KATNB1 Cause Complex Cerebral Malformations by Disrupting Asymmetrically Dividing Neural Progenitors. *Neuron* 2015, 85: 228. [PMID: 29654772](#) , [DOI: 10.1016/j.neuron.2014.12.046](#) .
11. Erson-Omay EZ, Çağlayan AO, Schultz N, Weinhold N, Omay SB, Özdoğan K, Köksal Y, Li J, Serin Harmancı A, Clark V, Carrión-Grant G, Baranoski J, Çağlar C, Barak T, Coşkun S, Baran B, Köse D, Sun J, Bakırcioğlu M, Moliterno Günel J, Pamir MN, Mishra-Gorur K, Bilguvar K, Yasuno K, Vortmeyer A, Huttner AJ, Sander C, Günel M. Somatic POLE mutations cause an ultramutated giant cell high-grade glioma subtype with better prognosis. *Neuro-Oncology* 2015, 17: 1356-1364. [PMID: 25740784](#) , [PMCID: PMC4578578](#) , [DOI: 10.1093/neuonc/nov027](#) .
 12. Bai H, Harmancı AS, Erson-Omay EZ, Li J, Coşkun S, Simon M, Krschek B, Özdoğan K, Omay SB, Sorensen EA, Turcan Ş, Bakırcioğlu M, Carrión-Grant G, Murray PB, Clark VE, Ercan-Sencicek AG, Knight J, Sencar L, Altınok S, Kaulen LD, Gülez B, Timmer M, Schramm J, Mishra-Gorur K, Henegariu O, Moliterno J, Louvi A, Chan TA, Tannheimer SL, Pamir MN, Vortmeyer AO, Bilguvar K, Yasuno K, Günel M. Integrated genomic characterization of IDH1-mutant glioma malignant progression. *Nature Genetics* 2015, 48: 59-66. [PMID: 26618343](#) , [PMCID: PMC4829945](#) , [DOI: 10.1038/ng.3457](#) .
 13. Çağlayan AO, Tüysüz B, Coşkun S, Quon J, Harmancı AS, Baranoski JF, Baran B, Erson-Omay EZ, Henegariu O, Mane SM, Bilgüvar K, Yasuno K, Günel M. A patient with a novel homozygous missense mutation in FTO and concomitant nonsense mutation in CETP. *Journal Of Human Genetics* 2016, 61: 395-403. [PMID: 26740239](#) , [PMCID: PMC4880488](#) , [DOI: 10.1038/jhg.2015.160](#) .
 14. Oktay Y, Ülgen E, Can Ö, Akyerli CB, Yüksel Ş, Erdemgil Y, Durası İ, Henegariu OI, Nanni EP, Selevsek N, Grossmann J, Erson-Omay EZ, Bai H, Gupta M, Lee W, Turcan Ş, Özpınar A, Huse JT, Sav MA, Flanagan A, Günel M, Sezerman OU, Yakicier MC, Pamir MN, Özdoğan K. IDH-mutant glioma specific association of rs55705857 located at 8q24.21 involves MYC deregulation. *Scientific Reports* 2016, 6: 27569. [PMID: 27282637](#) , [PMCID: PMC4901315](#) , [DOI: 10.1038/srep27569](#) .
 15. Li H, Bielas SL, Zaki MS, Ismail S, Farfara D, Um K, Rosti RO, Scott EC, Tu S, C. NC, Gabriel S, Erson-Omay EZ, Ercan-Sencicek AG, Yasuno K, Çağlayan AO, Kaymakçalan H, Ekici B, Bilguvar K, Günel M, Gleeson JG. Biallelic Mutations in Citron Kinase Link Mitotic Cytokinesis to Human Primary Microcephaly. *American Journal Of Human Genetics* 2016, 99: 501-510. [PMID: 27453578](#) , [PMCID: PMC4974110](#) , [DOI: 10.1016/j.ajhg.2016.07.004](#) .
 16. Çağlayan A, **Omay Z** , Köksal Y, Coşkun S, Unal E, Per H, Bilguvar K, Yasuno K, Ostergaard J, Günel M. Constitutive mismatch repair defect syndrome: New insights from whole exome sequencing data and functional studies. *Journal Of Biotechnology* 2016, 231: s12. [DOI: 10.1016/j.jbiotec.2016.05.067](#) .
 17. Clark VE, Harmancı AS, Bai H, Youngblood MW, Lee TI, Baranoski JF, Ercan-Sencicek AG, Abraham BJ, Weintraub AS, Hnisz D, Simon M, Krschek B, Erson-Omay EZ, Henegariu O, Carrión-Grant G, Mishra-Gorur K, Durán D, Goldmann JE, Schramm J, Goldbrunner R, Piepmeier JM, Vortmeyer AO, Günel JM, Bilgüvar K, Yasuno K, Young RA, Günel M. Recurrent somatic mutations in POLR2A define a distinct subset of meningiomas. *Nature Genetics* 2016, 48: 1253-1259. [PMID: 27548314](#) , [PMCID: PMC5114141](#) , [DOI: 10.1038/ng.3651](#) .
 18. Erson-Omay EZ, Henegariu O, Omay SB, Harmancı AS, Youngblood MW, Mishra-Gorur K, Li J, Özdoğan K, Carrión-Grant G, Clark VE, Çağlar C, Bakırcioğlu M, Pamir MN, Tabar V, Vortmeyer AO, Bilguvar K, Yasuno K, DeAngelis LM, Baehring JM, Moliterno J, Günel M. Longitudinal analysis of

- treatment-induced genomic alterations in gliomas. *Genome Medicine* 2017, 9: 12. [PMID: 28153049](#) , [PMCID: PMC5290635](#) , [DOI: 10.1186/s13073-017-0401-9](#) .
19. Harmancı AS, Youngblood MW, Clark VE, Coşkun S, Henegariu O, Duran D, Erson-Omay EZ, Kaulen LD, Lee TI, Abraham BJ, Simon M, Krischek B, Timmer M, Goldbrunner R, Omay SB, Baranoski J, Baran B, Carrión-Grant G, Bai H, Mishra-Gorur K, Schramm J, Moliterno J, Vortmeyer AO, Bilgüvar K, Yasuno K, Young RA, Günel M. Integrated genomic analyses of de novo pathways underlying atypical meningiomas. *Nature Communications* 2017, 8: 14433. [PMID: 28195122](#) , [PMCID: PMC5316884](#) , [DOI: 10.1038/ncomms14433](#) .
 20. Akyerli CB, Yüksel Ş, Can Ö, Erson-Omay EZ, Oktay Y, Coşgun E, Ülgen E, Erdemgil Y, Sav A, von Deimling A, Günel M, Yakicier MC, Pamir MN, Özdoğan K. Use of telomerase promoter mutations to mark specific molecular subsets with reciprocal clinical behavior in IDH mutant and IDH wild-type diffuse gliomas. *Journal Of Neurosurgery* 2017, 128: 1102-1114. [PMID: 28621624](#) , [DOI: 10.3171/2016.11.jns16973](#) .
 21. Harmancı AS, Youngblood MW, Clark VE, Coşkun S, Henegariu O, Duran D, Erson-Omay EZ, Kaulen LD, Lee TI, Abraham BJ, Simon M, Krischek B, Timmer M, Goldbrunner R, Omay SB, Baranoski J, Baran B, Carrión-Grant G, Bai H, Mishra-Gorur K, Schramm J, Moliterno J, Vortmeyer AO, Bilgüvar K, Yasuno K, Young RA, Günel M. Correction: Author Correction: Integrated genomic analyses of de novo pathways underlying atypical meningiomas. *Nature Communications* 2018, 9: 16215. [PMID: 29676392](#) , [PMCID: PMC5919704](#) , [DOI: 10.1038/ncomms16215](#) .
 22. Nygaard HB, Erson-Omay EZ, Wu X, Kent BA, Bernales CQ, Evans DM, Farrer MJ, Vilariño-Güell C, Strittmatter SM. Whole-Exome Sequencing of an Exceptional Longevity Cohort. *The Journals Of Gerontology Series A* 2018, 74: 1386-1390. [PMID: 29750252](#) , [PMCID: PMC6696723](#) , [DOI: 10.1093/gerona/gly098](#) .
 23. Fomchenko EI, Duran D, Jin SC, Dong W, Erson-Omay EZ, Antwi P, Allocco A, Gaillard JR, Huttner A, Günel M, DiLuna ML, Kahle KT. De novo MYH9 mutation in congenital scalp hemangioma. *Molecular Case Studies* 2018, 4: a002998. [PMID: 29903892](#) , [PMCID: PMC6071566](#) , [DOI: 10.1101/mcs.a002998](#) .
 24. Shear BM, Jin L, Zhang Y, David WB, Fomchenko EI, Erson-Omay EZ, Huttner A, Fulbright RK, Moliterno J. Extent of resection of epidermoid tumors and risk of recurrence: case report and meta-analysis. *Journal Of Neurosurgery* 2019, 133: 291-301. [PMID: 31277071](#) , [DOI: 10.3171/2019.4.jns19598](#) .
 25. Fomchenko EI, Erson-Omay EZ, Zhao A, Bindra RS, Huttner A, Fulbright RK, Moliterno J. DNMT3A co-mutation in an IDH1-mutant glioblastoma. *Molecular Case Studies* 2019, 5: a004119. [PMID: 31371348](#) , [PMCID: PMC6672028](#) , [DOI: 10.1101/mcs.a004119](#) .
 26. Fomchenko EI, Erson-Omay EZ, Kundishora AJ, Hong CS, Daniel AA, Allocco A, Duy PQ, Darbinyan A, Marks AM, DiLuna ML, Kahle KT, Huttner A. Genomic alterations underlying spinal metastases in pediatric H3K27M-mutant pineal parenchymal tumor of intermediate differentiation: case report. *Journal Of Neurosurgery Pediatrics* 2019, 25: 121-130. [PMID: 31653819](#) , [DOI: 10.3171/2019.8.peds18664](#) .
 27. Youngblood MW, Duran D, Montejo JD, Li C, Omay SB, Özdoğan K, Sheth AH, Zhao AY, Tyrtova E, Miyagishima DF, Fomchenko EI, Hong CS, Clark VE, Riche M, Peyre M, Boetto J, Sohrabi S, Koljaka S, Baranoski JF, Knight J, Zhu H, Pamir MN, Avşar T, Kilic T, Schramm J, Timmer M, Goldbrunner R, Gong Y, Bayri Y, Amankulor N, Hamilton RL, Bilgüvar K, Tikhonova I, Tomak PR, Huttner A, Simon M, Krischek B, Kalamirides M, Erson-Omay EZ, Moliterno J, Günel M. Correlations between genomic

- subgroup and clinical features in a cohort of more than 3000 meningiomas. *Journal Of Neurosurgery* 2019, 133: 1345-1354. [PMID: 31653806](#) , [DOI: 10.3171/2019.8.jns191266](#) .
28. Cao H, Erson-Omay EZ, Li X, Günel M, Moliterno J, Fulbright RK. Correction to: A quantitative model based on clinically relevant MRI features differentiates lower grade gliomas and glioblastoma. *European Radiology* 2020, 30: 4145-4145. [PMID: 32152743](#) , [DOI: 10.1007/s00330-020-06774-0](#) .
 29. Hong CS, Jin L, David WB, Shear B, Zhao AY, Zhang Y, Erson-Omay EZ, Fulbright RK, Huttner A, Kveton J, Moliterno J. The Clinical Implications of Spontaneous Hemorrhage in Vestibular Schwannomas. *Journal Of Neurological Surgery Part B Skull Base* 2020, 82: e22-e32. [PMID: 34306914](#) , [PMCID: PMC8289498](#) , [DOI: 10.1055/s-0040-1701676](#) .
 30. Hong CS, Vasquez JC, Kundishora AJ, Elsamadicy AA, Beckta JM, Sule A, Marks AM, Leelatian N, Huttner A, Bindra RS, DiLuna ML, Kahle KT, Erson-Omay EZ. Persistent STAG2 mutation despite multimodal therapy in recurrent pediatric glioblastoma. *Npj Genomic Medicine* 2020, 5: 23. [PMID: 32528726](#) , [PMCID: PMC7264170](#) , [DOI: 10.1038/s41525-020-0130-7](#) .
 31. Karschnia P, Erson-Omay EZ, Huttner AJ, Kaulen LD, Duran D, Fulbright RK, Günel M, Baehring JM. Genomic alterations in Turcot syndrome: Insights from whole exome sequencing. *Journal Of The Neurological Sciences* 2020, 417: 117056. [PMID: 32739502](#) , [DOI: 10.1016/j.jns.2020.117056](#) .
 32. Caglayan AO, Aktar F, Bilguvar K, Baranoski JF, Akgumus GT, Harmanci AS, Erson-Omay EZ, Yasuno K, Caksen H, Gunel M. METAP1 mutation is a novel candidate for autosomal recessive intellectual disability. *Journal Of Human Genetics* 2020, 66: 215-218. [PMID: 32764695](#) , [PMCID: PMC7785574](#) , [DOI: 10.1038/s10038-020-0820-0](#) .
 33. Hong CS, Murari K, Gossmann M, Mahajan A, Erson-Omay Z, Manes RP, Omay SB. Molecular Diagnosis and Extracranial Extension in Cushing Disease. *JAMA Otolaryngology - Head & Neck Surgery* 2020, 146: 865-867. [PMID: 32644156](#) , [DOI: 10.1001/jamaoto.2020.1471](#) .
 34. S ., Kundishora AJ, Elsamadicy AA, Koo AB, Beckta JM, McGuone D, Erson-Omay EZ, Omay SB. Genetic characterization of a case of sellar metastasis from bronchial carcinoid neuroendocrine tumor. *Surgical Neurology International* 2020, 11: 303. [PMID: 33093980](#) , [PMCID: PMC7568119](#) , [DOI: 10.25259/sni_265_2020](#) .
 35. Youngblood MW, Miyagishima DF, Jin L, Gupte T, Li C, Duran D, Montejó JD, Zhao A, Sheth A, Tyrtova E, Özdoğan K, Iacoangeli F, Peyre M, Boetto J, Pease M, Avşar T, Huttner A, Bilguvar K, Kilic T, Pamir MN, Amankulor N, Kalamarides M, Erson-Omay EZ, Günel M, Moliterno J. Associations of meningioma molecular subgroup and tumor recurrence. *Neuro-Oncology* 2020, 23: 783-794. [PMID: 33068421](#) , [PMCID: PMC8099468](#) , [DOI: 10.1093/neuonc/noaa226](#) .
 36. Hong CS, Flíney G, Fisayo A, An Y, Gopal PP, Omuro A, Pointdujour-Lim R, Erson-Omay EZ, Omay SB. Genetic characterization of an aggressive optic nerve pilocytic glioma. *Brain Tumor Pathology* 2020, 38: 59-63. [PMID: 33098465](#) , [PMCID: PMC7585354](#) , [DOI: 10.1007/s10014-020-00383-x](#) .
 37. Gupte T, Jin L, Li C, Yalcin K, Youngblood M, Miyagishima D, Gorur K, Zhao A, Fulbright R, **Omay Z** , Günel M, Moliterno J. Clinical and Genomic Factors Associated With Seizures in Meningiomas. *Neurosurgery* 2020, 67 [DOI: 10.1093/neuros/nyaa447_796](#) .
 38. Gupte TP, Li C, Jin L, Yalcin K, Youngblood MW, Miyagishima DF, Mishra-Gorur K, Zhao AY, Antonios J, Huttner A, McGuone D, Blondin NA, Contessa JN, Zhang Y, Fulbright RK, Günel M, Erson-Omay Z, Moliterno J. Clinical and genomic factors associated with seizures in meningiomas. *Journal Of Neurosurgery* 2020, 135: 835-844. [PMID: 33276341](#) , [DOI: 10.3171/2020.7.jns201042](#) .
 39. Fadel S, **Omay Z** , Darbinyan A, Bronen R, Fulbright R, Mahajan A, Aboian M. LGG-09. CORRELATING GENETIC SIGNATURE OF PILOMYXOID ASTROCYTOMAS AND PILOCYTIC ASTROCYTOMAS WITH

- QUALITATIVE AND QUANTITATIVE MR IMAGING CHARACTERISTICS. *Neuro-Oncology* 2020, 22: iii367-iii368. [PMCID: PMC7715503](#) , [DOI: 10.1093/neuonc/noaa222.392](#) .
40. Cao H, Erson-Omay EZ, Günel M, Moliterno J, Fulbright RK. A Quantitative Assessment of Pre-Operative MRI Reports in Glioma Patients: Report Metrics and IDH Prediction Ability. *Frontiers In Oncology* 2021, 10: 600327. [PMID: 33585216](#) , [PMCID: PMC7879978](#) , [DOI: 10.3389/fonc.2020.600327](#) .
 41. Hong CS, Kuzmik GA, Kundishora AJ, Elsamadicy AA, Koo AB, McGuone D, Blondin NA, DiLuna ML, Erson-Omay EZ. Hypermutated phenotype in gliosarcoma of the spinal cord. *Npj Precision Oncology* 2021, 5: 8. [PMID: 33580181](#) , [PMCID: PMC7881101](#) , [DOI: 10.1038/s41698-021-00143-w](#) .
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