

Sporadic multiple meningioma

Genomic profiling

Both NF2-loss and non-NF2-driven MMs can form due to monoclonal expansion and those tumors can acquire inter-tumoral heterogeneity through branched evolution. Grade I and II meningiomas can occur in the same patient. Thus, the molecular makeup and clinical behavior of one tumor in MMs, cannot reliably lend insight into that of the others and suggests the clinical management strategy for MMs should be tailored individually. ^{1) 2)}.

Genomic profiling can provide an unbiased adjunct to traditional meningioma classification and provides a basis for exploring the different genetic underpinnings of tumor initiation and progression. Most importantly, the striking difference observed between sporadic and familial multiple meningiomas indicates that genomic profiling can provide valuable information for differential diagnosis of subjects with multiple meningiomas and for considering the risk for tumor occurrence in their family members ³⁾.

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Erson-Omay EZ, Vetsa S, Vasandani S, Barak T, Nadar A, Marianayagam NJ, Yalcin K, Miyagishima D, Aguilera SM, Robert S, Mishra-Gorur K, Fulbright RK, McGuone D, Günel M, Moliterno J. Genomic profiling of sporadic multiple meningiomas. *BMC Med Genomics*. 2022 May 14;15(1):112. doi: 10.1186/s12920-022-01258-0. Erratum in: *BMC Med Genomics*. 2022 Jun 13;15(1):131. PMID: 35568945; PMCID: PMC9107270.

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Erson-Omay EZ, Vetsa S, Vasandani S, Barak T, Nadar A, Marianayagam NJ, Yalcin K, Miyagishima D, Aguilera SM, Robert S, Mishra-Gorur K, Fulbright RK, McGuone D, Günel M, Moliterno J. Correction: Genomic profiling of sporadic multiple meningiomas. *BMC Med Genomics*. 2022 Jun 13;15(1):131. doi: 10.1186/s12920-022-01273-1. Erratum for: *BMC Med Genomics*. 2022 May 14;15(1):112. PMID: 35698142.

³⁾

Shen Y, Nunes F, Stemmer-Rachamimov A, James M, Mohapatra G, Plotkin S, Betensky RA, Engler DA, Roy J, Ramesh V, Gusella JF. Genomic profiling distinguishes familial multiple and sporadic multiple meningiomas. *BMC Med Genomics*. 2009 Jul 9;2:42. doi: 10.1186/1755-8794-2-42. PubMed PMID: 19589153; PubMed Central PMCID: PMC2716362.

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