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Preview

# Plasma cell and cancer stem cell crosstalk in glioblastoma

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Cancer Cell, Available online 2 January 2025, Pages

Jiancheng Gao, Danling Gu, Kailin Yang, Junxia Zhang, Qiankun Lin, Wei Yuan, Xu Zhu, Deobrat Dixit, Ryan C. Gimple, Hao You, Qian Zhang, Zhumei Shi, Xiao Fan, Qiulian Wu, Chenfei Lu, Zhangchun Cheng, Daqi Li, Linjie Zhao, Bin Xue, Zhu Zhu, Zhe Zhu, Hui Yang, Ningwei Zhao, Wei Gao, Yingmei Lu, Junfei Shao, Chuandong Cheng, Dapeng Hao, Shuo Yang, Yun Chen, Xiaoming Wang, Chunsheng Kang, Jing Ji, Jianghong Man, Sameer Agnihotri, Qianghu Wang, Fan Lin, Xu Qian, Stephen C. Mack, Zhibin Hu, Chaojun Li, Michael D. Taylor, Yan Li, Nu Zhang, Jeremy N. Rich, Yongping You, Xiuxing Wang

Plasma cells (PCs) are the main producers of antibodies and have context-dependent roles in tumor immunity. In this issue of *Cancer Cell*, Gao et al. report that intratumoral PCs drive maintenance of glioblastoma stem cells to promote tumor growth via IgG secretion that activates a FcγRIIA-SYK-AKT signaling axis.

## Section snippets

### Main text

Glioblastoma (GBM) is the deadliest central nervous system (CNS) malignancy, attributed to high

relapse rates and the immunosuppressive brain tumor microenvironment (TME).<sup>1</sup> Glioblastoma stem cells (GSCs) are a small population of progenitor cancer cells that drive aggressiveness through their capacity for self-renewal, tumor initiation/maintenance, and insensitivity to cytotoxic therapies.<sup>2</sup> However, crosstalk between GSCs and the TME that facilitates these features remains incompletely defined.

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## Declaration of interests

The authors declare no competing interests. ...

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There are more references available in the full text version of this article.

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