Resource Summary Report

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Ivy Glioblastoma Atlas Project

RRID:SCR_005044
Type: Tool

Proper Citation

Ivy Glioblastoma Atlas Project (RRID:SCR_005044)

Resource Information

URL: http://glioblastoma.alleninstitute.org/

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Description: Platform for exploring the anatomic and genetic basis of glioblastoma at the cellular and molecular levels that includes two interactive databases linked together by de-identified tumor specimen numbers to facilitate comparisons across data modalities: * The open public image database, here, providing in situ hybridization data mapping gene expression across the anatomic structures inherent in glioblastoma, as well as associated histological data suitable for neuropathological examination * A companion database (Ivy GAP Clinical and Genomic Database) offering detailed clinical, genomic, and expression array data sets that are designed to elucidate the pathways involved in glioblastoma development and progression. This database requires registration for access. The hope is that researchers all over the world will mine these data and identify trends, correlations, and interesting leads for further studies with significant translational and clinical outcomes. The Ivy Glioblastoma Atlas Project is a collaborative partnership between the Ben and Catherine Ivy Foundation, the Allen Institute for Brain Science and the Ben and Catherine Ivy Center for Advanced Brain Tumor Treatment.

Abbreviations: Ivy GAP

Resource Type: image collection, data or information resource, database, atlas

Keywords: glioblastoma, in situ hybridization, hematoxylin and eosin stain, brain, tumor, gene expression, anatomic structure, histology, clinical, genomic, expression array, gene, FASEB list

Related Condition: Brain cancer, Cancer

Funding: Ben and Catherine Ivy Foundation

Resource Name: Ivy Glioblastoma Atlas Project

Resource ID: SCR_005044

Alternate IDs: nlx_99161

Record Creation Time: 20220129T080228+0000

Record Last Update: 20260729T044112+0000

Ratings and Alerts

No rating or validation information has been found for Ivy Glioblastoma Atlas Project.

No alerts have been found for Ivy Glioblastoma Atlas Project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 126 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Gong S, et al. (2025) Hyperbaric oxygen promotes both the proliferation and chemosensitization of glioblastoma cells by inhibiting HIF1?/HIF2?-ABCG2. Frontiers in molecular neuroscience, 18, 1584407.

Xue J, et al. (2025) Limitations of nomogram models in predicting survival outcomes for glioma patients. Frontiers in immunology, 16, 1547506.

Zhou H, et al. (2025) MMP14-Dependent Activation of TGF-? Signaling Enhances Malignancies via Promoting Necroptosis in Glioblastoma. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(24), e71343.

Yu M, et al. (2025) Human visual attention-inspired knowledge distillation underlying interpretable computational pathology. Scientific reports, 15(1), 42124.

Hsu WW, et al. (2025) COL22A1 expression identifies aggressive glioma and independently predicts survival through integrated multiomics and clinical validation. Discover oncology, 16(1), 1945.

Vinel C, et al. (2025) Mapping chromatin remodelling in glioblastoma identifies epigenetic regulation of key molecular pathways and novel druggable targets. BMC biology, 23(1), 26.

Kim J, et al. (2025) Assembly of glioblastoma tumoroids and cerebral organoids: a 3D in vitro model for tumor cell invasion. Molecular oncology, 19(3), 698.

Mo Y, et al. (2025) Identification of inflammation-related genes signature to establish a prognostic model in MGMT unmethylated glioblastoma patients. Discover oncology, 16(1), 154.

Kyritsi K, et al. (2025) Brain CD73 modulates interferon signaling to regulate glioblastoma invasion. Neuro-oncology advances, 7(1), vdaf080.

Liu T, et al. (2025) Dissecting PTPN7-driven aggressiveness in IDH-wildtype astrocytomas: multi-omics, clinical validation, and spatial transcriptomics for prognostic insights. Discover oncology, 16(1), 914.

Jimenez-Macias JL, et al. (2025) Modulation of blood-tumor barrier transcriptional programs improves intratumoral drug delivery and potentiates chemotherapy in GBM. Science advances, 11(9), eadr1481.

Xiao Y, et al. (2025) Bulk and single-cell transcriptome revealed the metabolic heterogeneity in human glioma. Heliyon, 11(1), e41241.

Kim SY, et al. (2025) Involvement of p38 MAPK and MAPKAPK2 in promoting cell death and the inflammatory response to ischemic stress associated with necrotic glioblastoma. Cell death & disease, 16(1), 12.

Yang G, et al. (2025) Glioblastoma exploits ATP from leading-edge astrocytes to fuel its infiltrative growth revealed by spatially resolved chimeric analysis. Science advances, 11(39), eadv5673.

Ware TMB, et al. (2025) Systemic brain dissemination of glioblastoma requires transdifferentiation into endothelial-like cells via TGF-?-ALK1-Smad1/5 signaling. Neoplasia (New York, N.Y.), 60, 101110.

Motevasseli M, et al. (2024) Distinct tumor-TAM interactions in IDH-stratified glioma microenvironments unveiled by single-cell and spatial transcriptomics. Acta neuropathologica communications, 12(1), 133.

Sun Y, et al. (2024) Polyunsaturated fatty acid-binding protein FABP7, an attractive metabolic target for inhibition of glioblastoma stem cells. Neuro-oncology, 26(3), 587.

Jimenez-Macias JL, et al. (2024) Modulation of blood-tumor barrier transcriptional programs improves intra-tumoral drug delivery and potentiates chemotherapy in GBM. bioRxiv : the preprint server for biology.

Cha J, et al. (2024) Collagen VI deposition primes the glioblastoma microenvironment for invasion through mechanostimulation of ?-catenin signaling. PNAS nexus, 3(9), pgae355.

Wang W, et al. (2024) KCNA1 promotes the growth and invasion of glioblastoma cells through ferroptosis inhibition via upregulating SLC7A11. Cancer cell international, 24(1), 7.