

# The Ivy GBM Atlas Project: Anatomic gene expression atlas of human glioblastoma

## PRINCIPAL INVESTIGATORS:



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## OBJECTIVES:

- Create an anatomic gene expression atlas for glioma-specific and glioma-enriched genes in GBM.
- Create an anatomic gene express atlas for brain tumor stem cell (BTSC)-associated genes in GBM.
- Create supporting information technology features and fully searchable online application for presentation of anatomic gene expression atlas of human glioblastoma made freely available to the public.
- Create an anatomic gene expression atlas for glioma-specific and glioma-enriched genes in recurrent GBM.

## PROGRESS REPORT:

- An open public image database of glioblastoma (<http://glioblastoma.alleninstitute.org/>) development and progression has been created. The database includes basic clinical data and advanced search tools to review over 4,000 high-resolution images of gene expression and associated histological data suitable for neuropathological examination.
- A clinical and genomic database for glioblastoma requiring registered access (<http://ivygap.org/>) has been created for review of detailed clinical, genomic, gene expression array data, and supporting pathology images and MRI data.
- Four additional sites have joined the Ivy GBM Atlas Project network of institutions dedicated to advance the scope of the program through collaboration and enrollment of patients.

[www.IvyFoundation.org](http://www.IvyFoundation.org)