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 Scope: Format: Amount: GEO accession:

Series GSE222520

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Status	Public on Jun 23, 2024
Title	Immune landscape of Isocitrate Dehydrogenase (IDH) stratified human gliomas [scRNA-seq]
Organism	Homo sapiens
Experiment type	Expression profiling by high throughput sequencing
Summary	The brain tumor immune microenvironment (TIME) continuously evolves during glioma progression, but only a limited view of a highly complex glioma associated immune contexture across isocitrate dehydrogenase mutation (IDH) classified gliomas is known. Herein, we present an unprecedentedly comprehensive view of myeloid and lymphoid cell type diversity with our single cell RNA sequencing interrogation.
Overall design	The glioma associated CD45+ leukocyte were subjected to Fluorescence-activated cell sorting (FACS) from cryopreserved single cells. The leukocyte enriched single cell suspensions were obtained from freshly resected tumors of IDH-mutant primary (IMP; n=4), IDH-mutant recurrent (IMR; n=6), IDH-wild type primary (IWP; n=4), or IDH-wild type recurrent (IWR; n=4) glioma patients and quasi-normal non-glioma brain (NGB; n=3) from two epilepsy patients and a dysembryoplastic neuroepithelial tumor *** Raw data are not provided for this study. Raw data are protected by MD Anderson internal review board (IRB)-approved protocol numbers LAB03-0687, LAB04-0001 and 2012-0441 and Baylor College of Medicine IRB-approved protocol number H-13798. ***
Contributor(s)	Gupta P , Dang M , Wang L , Bhat K
Citation missing	<i>Has this study been published? Please login to update or notify GEO.</i>
Submission date	Jan 10, 2023
Last update date	Jun 24, 2024
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- Platforms (1)

[GPL24676](#) Illumina NovaSeq 6000 (Homo sapiens)
- Samples (21)

[GSM6925378](#) NGB1, replicate1, scRNAseq

[More...](#)

[GSM6925379](#) NGB2, replicate1, scRNAseq

[GSM6925380](#) NGB4, replicate1, scRNAseq

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[GSE222522](#) Immune landscape of Isocitrate Dehydrogenase (IDH) stratified human gliomas

Relations

BioProject

[PRJNA922463](#)

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SOFT formatted family file(s)	SOFT ?
MINiML formatted family file(s)	MINiML ?
Series Matrix File(s)	TXT ?

Supplementary file	Size	Download	File type/resource
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Raw data not provided for this record
Processed data provided as supplementary file