## Supplementary Table 1. Differential Radiomics features (n=146) between IDH mutant and IDH wildtype groups in the training set.

Features Type			
Shape and size based features			
Surface to Volume Ratio			
First order statistics			
Energy	Entropy	Ν	ſedian
Mean	Root mean square		
Gray Level Co-occurrence Mat	rix		
Contrast	Dissimilarity		
Energy	Entropy		
Difference entropy	IMC1		
Gray Level Run-Length Matrix			
Short run emphasis	Run Percentage		
Wavelet features			
Cluster shade_HLL	Energy_HHL (group 1 derived)	Maximum_LLH	Root mean square_HLL
Contrast_LLL	Energy_HHL (group 3 derived)	Maximum_LHL	Root mean square_HLH
Contrast_LLH	Energy_HHH (group 1 derived)	Maximum_LHH	Root mean square_HHL
Contrast_LHL	Energy_HHH (group 3 derived)	Maximum_HLL	Root mean square_HHH
Contrast_HLH	Entropy_LLL (group 1 derived)	Maximum_HLH	Run percentage_LLL
Contrast_HHL	Entropy_LLL (group 3 derived)	Maximum_HHL	Run percentage_LHL
Contrast_HHH	Entropy_LLH (group 1 derived)	Maximum_HHH	Run percentage_LHH
Difference entropy_LLL	Entropy_LLH (group 3 derived)	Mean_LLL	Run percentage_HLL
Difference entropy_LLH	Entropy_LHL (group 1 derived)	Mean_LLH	Run percentage_HLH
Difference entropy_LHL	Entropy_LHL (group 3 derived)	Mean_LHL	Run percentage_HHH
Difference entropy_HLL	Entropy_LHH (group 1 derived)	Mean_LHH	Short run emphasis_LLL
Difference entropy_HLH	Entropy_LHH (group 3 derived)	Mean_HLL	Short run emphasis_LLH
Difference entropy_HHL	Entropy_HLL (group 1 derived)	Mean_HLH	Short run emphasis_LHL
Difference entropy_HHH	Entropy_HLL (group 3 derived)	Mean_HHL	Short run emphasis_LHH
Dissimilarity_LLL	Entropy_HLH (group 1 derived)	Mean_HHH	Short run emphasis_HLL
Dissimilarity_LLH	Entropy_HLH (group 3 derived)	Median_LLL	Short run emphasis_HLH
Dissimilarity_LHL	Entropy_HHL (group 1 derived)	Median_LLH	Short run emphasis_HHL
Dissimilarity_HLL	Entropy_HHL (group 3 derived)	Median_LHL	Short run emphasis_HHH
Dissimilarity_HLH	Entropy_HHH (group 1	Median_LHH	Standard deviation_LLH

## Features Type

	derived)		
	Entropy_HHH (group 3		
Dissimilarity_HHL	derived)	Median_HLH	Standard deviation_LHL
Dissimilarity_HHH	IMC1_LLL	Median_HHL	Standard deviation_LHH
Energy_LLL (group 1 derived)	IMC1_HLL	Median_HHH	Standard deviation_HLL
Energy_LLL (group 3 derived)	IMC1_HLH	Minimum_LLL	Standard deviation_HLH
Energy_LLH (group 1 derived)	IMC1_HHL	Range_LLH	Standard deviation_HHL
Energy_LLH (group 3 derived)	IMC1_HHH	Range_LHL	Standard deviation_HHH
Energy_LHL (group 1 derived)	Mean absolute deviation_LLH	Range_HLL	Sum entropy_HHL
Energy_LHL (group 3 derived)	Mean absolute deviation_LHL	Range_HLH	Variance_LLH (group 1 derived)
Energy_LHH (group 1 derived)	Mean absolute deviation_LHH	Range_HHL	Variance_LHL (group 1 derived)
Energy_LHH (group 3 derived)	Mean absolute deviation_HLL	Range_HHH	Variance_LHH (group 1 derived)
Energy_HLL (group 1 derived)	Mean absolute deviation_HLH	Root mean square_LLL	Variance_HLL (group 1 derived)
Energy_HLL (group 3 derived)	Mean absolute deviation_HHL	Root mean square_LLH	Variance_HLH (group 1 derived)
Energy_HLH (group 1 derived)	Mean absolute deviation_HHH	Root mean square_LHL	Variance_HHL (group 1 derived)
Energy_HLH (group 3 derived)	Maximum_LLL	Root mean square_LHH	Variance_HHH (group 1 derived)

IMC1 = Informational measure of correlation 1.