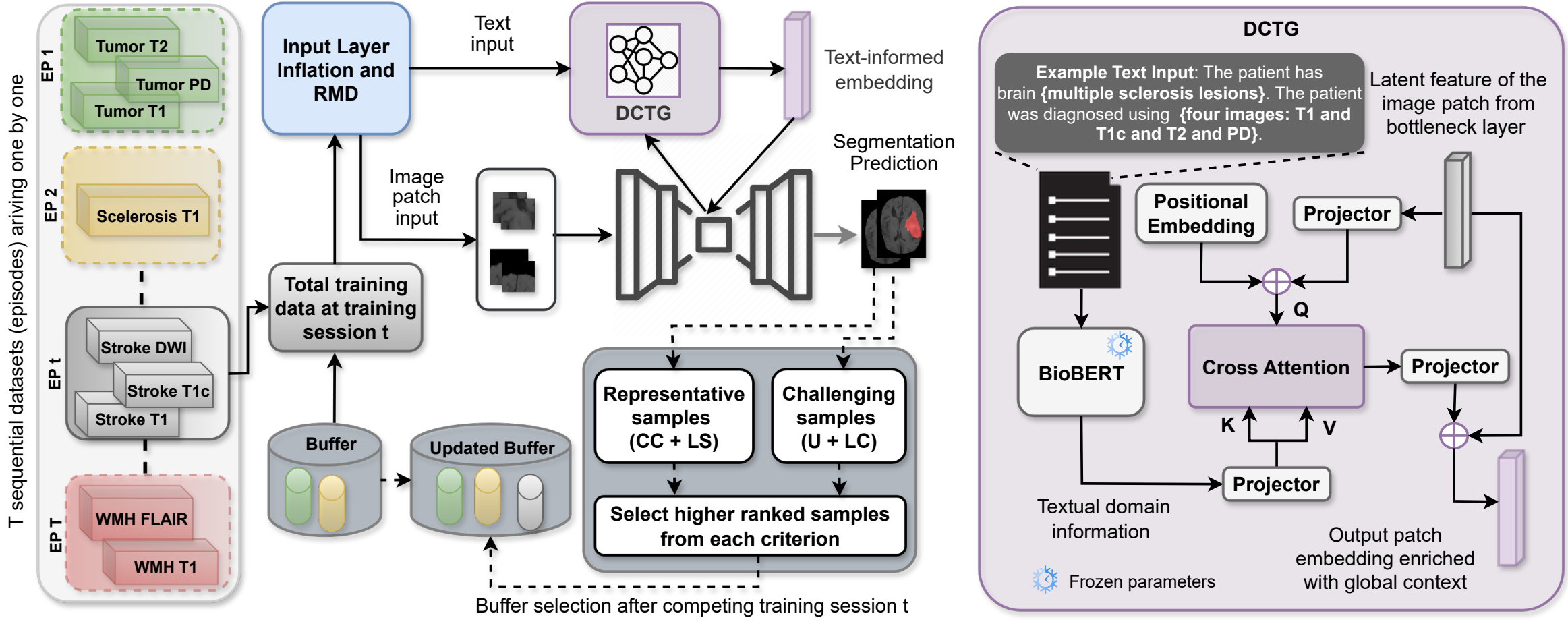
T sequential datasets (episodes) ariving one by one
EP 1
Tumor T2
Tumor PD
Tumor T1
EP 2
Scelerosis T1
EP t
Stroke DWI
Stroke T1c
Stroke T1
EP T
WMH FLAIR
WMH T1
Input Layer Inflation and RMD
Text input
DCTG
Text-informed embedding
Image patch input
Segmentation Prediction
Total training data at training session t
Buffer
Updated Buffer
Representative samples (CC + LS)
Challenging samples (U + LC)
Select higher ranked samples from each criterion
Buffer selection after competing training session t
DCTG
Example Text Input: The patient has brain {multiple sclerosis lesions}. The patient was diagnosed using {four images: T1 and T1c and T2 and PD}.
Latent feature of the image patch from bottleneck layer
Positional Embedding
Projector
Q
BioBERT
Cross Attention
Projector
K
V
Projector
Textual domain information
Output patch embedding enriched with global context
Frozen parameters