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**Abstract Topic:** - Cancer

**Abstract Title:** - Diagnosis on Formalin fixed paraffin embedded tissue sections- potential valuable resource for medical research

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**Aims:** - : FFPE tissue repertoires with patient clinical data have been gathered for decades, presenting a valuable resource for retrospective studies. Since long term storage and access of fresh tissues have many challenges, development of archives of formalin fixed and paraffin embedded (FFPE) sections are widely adopted. FFPE tissues are routinely used world-wide for histopathological diagnosis of various diseases. We have attempted to carry out gene expression analysis and DNA methylation profiles on FFPE tissue samples in patients with lymphomas and glioblastomas to understand the molecular basis of the disease and to identify molecular biomarkers

**Methods:** - Immunohistochemistry and FISH were carried out on tissue microarrays (TMA). Methylation specific PCR was carried on the same tissue sections. Gene expression analysis was also done on glioblastoma FFPE tissue sections

**Results:** - Comparable results were obtained on lymphomas and glioblastoma FFPE tissue sections.

**Conclusions:** - With growing interest in understanding the molecular basis of any disease, FFPE samples represent a valuable resource since follow-up clinical data and disease prognosis are often collected years after the specimen collection. Furthermore, data from FFPE tissue based assays not only complement disease diagnosis but also allow designing of personalized therapeutic regimens.

**Keywords:** - Comparable results were obtained on lymphomas and glioblastoma FFPE tissue sections.

