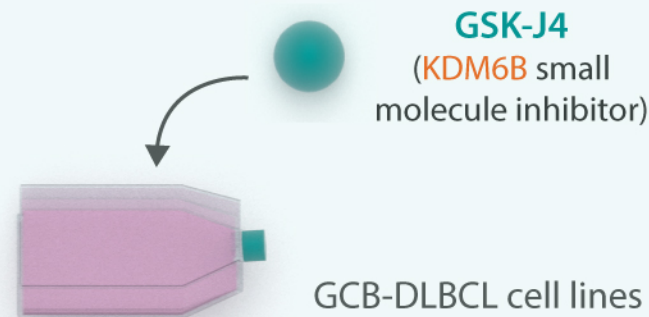


# GSK-J4 mediated inhibition of demethylase KDM6B sensitizes diffuse large B-cell lymphoma to chemotherapeutic drugs



## KDM6B over expression

- Present in the germinal center B-cell subtype DLBCL
- Associated with worse survival in DLBCL patients treated with R-CHOP



- ⦿ Cell lines expressing high Bcl6 levels or CREBBP/EP300 mutations were sensitive to GSK-J4  
Apoptosis induction in 5/9 GCB-DLBCL cell lines (SUDHL-6, OCI-Ly1, Toledo, OCI-Ly8, SU-DHL-8)
- ⦿ BCR dependent downregulation of Bcl6 is responsible for GSK-J4-induced cytotoxicity  
Downregulation of BCR signaling and Bcl6
- ⦿ GSK-J4 mediated inhibition of KDM6B sensitizes GCB-DLBCL cells to chemotherapy agents that are currently utilized in DLBCL treatment regimens