



UMass Chan
MEDICAL SCHOOL



Genomics &
Computational
Biology

Poster: #5

The Evolution of KoRV-A Transcriptional Silencing in Wild Koalas

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- The piRNA pathway keeps integrity of our genome by silencing transposons and endogenous retroviruses.
- *How? When?*
- We used multi-omic to study koala retroviruses — the youngest endogenous retrovirus in mammals — to reveal
- **The Evolution of KoRV-A Transcriptional Silencing in Wild Koalas**

Multi-omic analysis of koala populations revealed two phases of genome immune response to KoRV-A retroviral invasion

