Sequence Assembly using the PoPLAR Science Gateway

Mary Lauren Harris
Catherine Eason
Bhanu Rekepalli PhD
Background

Huge volume of NGS data prepared
Assembly is still developing
Trade-offs of current algorithms
Current Progress

Installed two assembly programs: ALLPATHS-LG and Velvet

Running MPI and HSP programs on Darter and Nautilus

Scalability studies for BLAST
Future goals

Optimize sequence assembly tools to perform on HPC resources

Integrate sequence assembly tools into the PoPLAR pipeline
References


Questions?

For more information contact:
Mary_L_Harris@baylor.edu or catheason09@gmail.com