



STRENGTHENING GENOMIC RESEARCH AT TEXAS A&M

A BASEPAIR CASE STUDY

EXECUTIVE SUMMARY

The Texas A&M Institute for Genome Sciences and Society (TIGSS) faced challenges in expanding their NGS sequencing facility due to limited bioinformatics analysis resources. By implementing Basepair's hosted service, TIGSS streamlined RNA-seq, WGS and other analyses, improved efficiency, and simplified onboarding and accounting processes. Basepair's user-friendly interface and flexible pricing enabled TIGSS to focus on unique sample types and provide robust research support.

SCALING NGS SEQUENCE ANALYSIS RESOURCES

(TIGSS) faced the challenge of supporting genomic research while dealing with a fluctuating budget and limited bioinformatics resources. With sequencing requests flooding in, Associate Director Andrew Hillhouse, PhD, sought a user-friendly solution to alleviate bioinformatics constraints.

EXPLORING AND IDENTIFYING THE IDEAL SOLUTION

Initially considering Illumina's Basespace software, Andrew found its workflow too complex for TIGSS's requirements. He sought a more straightforward solution that would simplify the process and remove the initial time commitment from the equation.

"Honestly, I just wanted to be able to click one button to run an analysis pipeline, not five buttons."

DISCOVERING BASEPAIR AND ACCELERATED ANALYSIS

After discovering Basepair through an online search, Andrew signed up for a trial. The ease of use and intuitive design of the Software-as-a-Service (SaaS) enabled swift analysis of sequence files from the lab's backlog, delivering publication-ready results for principal investigators.

"All I had to do was click and drag to upload the FASTQ files and choose a pipeline. It does the work for you."

EFFORTLESS ONBOARDING AND STREAMLINED ACCOUNTING

As TIGSS expanded its team, integrating new members with Basepair was effortless. Principal investigators can now do routine analyses themselves and get their results much faster, and by relieving the bioinformatics lab of these routine operations it has more time to help members of the department with their more complex issues. In addition, Basepair's pay-as-you-go pricing also improved the bioinformatics lab's accounting and finance operations, enabling them to pass analysis costs directly to investigators.

SUPPORTING UNIQUE SAMPLE TYPE ANALYSIS AND PROVIDING ASSISTANCE

TIGSS processes a wide range of species samples, including unique sample types from their affiliated vet school and college of agriculture. By allocating standardized sample analyses to Basepair, the team can focus on these special samples. Basepair's attentive customer support has proven invaluable for the university's students and staff.

"We let Basepair handle the heavy lifting with more standardized samples, and that frees us up to handle the more oddball samples."



ANDREW HILLHOUSE, PHD

Sought a user-friendly solution to alleviate bioinformatics constraints

FUTURE PROSPECTS AND BENEFITS FOR ACADEMIC CORES

Andrew plans to evaluate Basepair for single cell genomics analyses to further enhance the lab's research capabilities. Basepair's dedication to addressing academic NGS analysis needs allows institutions like Texas A&M to benefit from its streamlined approach, catering to both bioinformaticians and bench scientists.

To find out if Basepair will do the heavy lifting in bioinformatics for your own core, email sales@basepairtech.com or visit www.basepairtech.com to start your free trial of Basepair's hosted service.



Basepair. NGS insight.



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