

# Cofactor Genomics: A Sequencing Service Company Emerges from the Technology Development Laboratory

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## The Cofactor Genomics Story

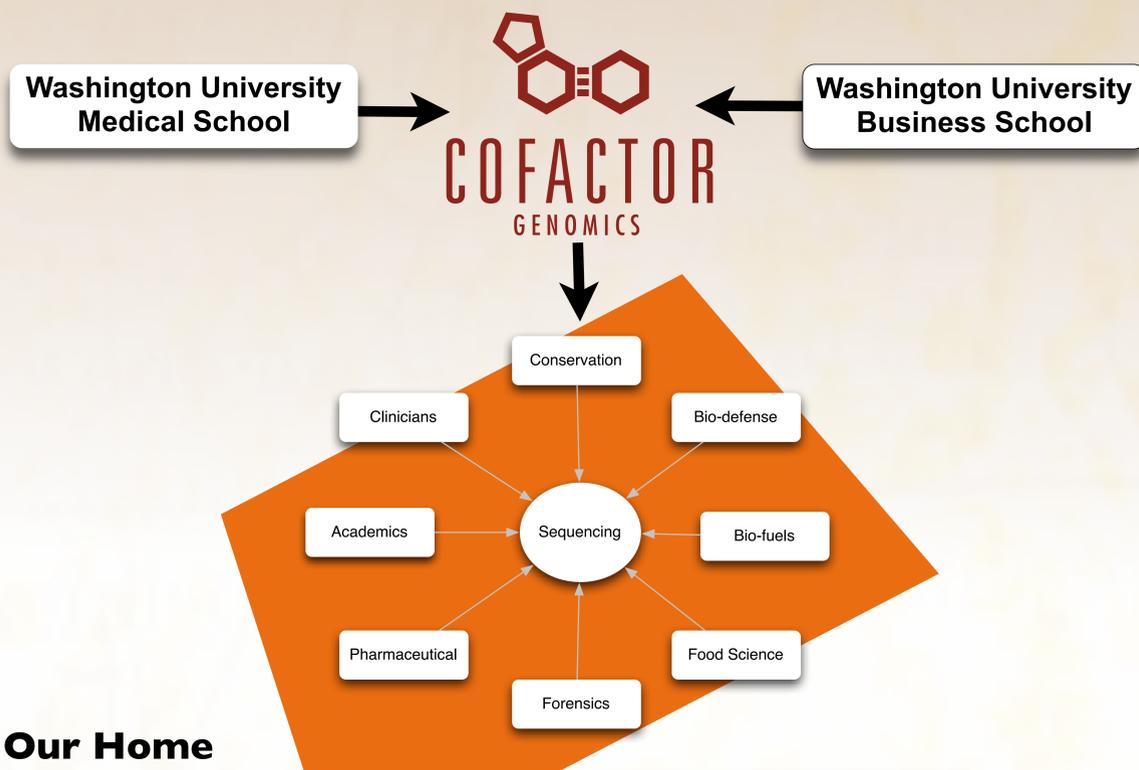
- Sequence service provider based in St. Louis, Missouri committed to changing the service sequencing paradigm by offering our customers front-to-back solutions; experimental design, next-generation sequencing, and advanced analytics for their work.

- Founders came from the Genome Center at Washington University Medical School as few of the first individuals in the world to test the hardware and characterize data generated by next-generation DNA sequencing instruments.

- The executive management team has a collective 30 years of experience in genome sequencing technology development.

- Cofactor has been in operation for 2 years and already established a proven track record of capability, versatility, remarkably consistent high quality data generation, and delivering custom data analysis solutions.

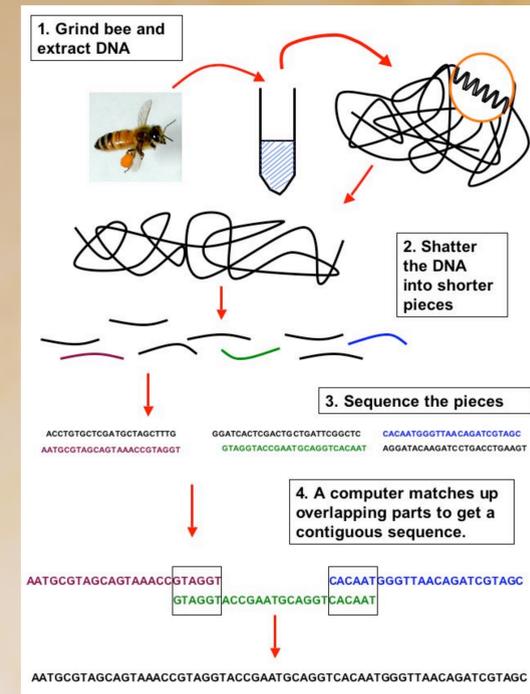
## Cofactor Genomics' Formation



## Our Home



## How Do We Sequence DNA?



## What can we do with the sequence?

- Evolutionary conservation among organisms.
- Correlation of SNPs (single-base DNA variations among individuals) with health and disease.
- Knowledge of the effects of variation of DNA among individuals can revolutionize the ways to diagnose, treat and even prevent a number of diseases that affects the human beings.
- We can derive meaningful knowledge from DNA sequences that will define biological research through the coming decades and require the expertise and creativity of teams of biologists, chemists, engineers, and computational scientists, among others.

## Specialized Hardware = Gigantic Strides in Technology

- Able to produce 15-30 billion bases/letters (GATC) per week. This summer, machine upgrades will enable be 300 billion per week!!!
- We can sequence a bacteria in one day, a fly in 3 days, and a human in one week for the cost of \$20,000. In contrast, the human genome project took over 10 years to complete at a cost of \$10,000,000,000.
- Desktop units will be released this year that are the size of a large printer.

## Illumina GAIIX



## Applied Biosystems 3+

