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Bio-Mine Drags Mining into its Most Advanced Research Ever

Life Science May Hold the Answers

Sudbury—December 3, 2019 — Some of the most advanced research in Life Science involves mapping and modifying the very essence of life, DNA/RNA; the sequencing code that makes up every living system in the world. This highly advanced research is the driving force behind potential lifesaving solutions for diseases like Cancer, Alzheimer's and Diabetes, as new products designed from the DNA code are being developed every day.

One would never think that mining could be one of the industries benefitting from this type of advanced research, but Bio-Mine Ltd. believes its exactly the industry that can benefit.

Bio-Mine is in possession of an evolution to biotechnology in mining, with its entire community of organisms that form an extremophile ecosystem that can adapt and survive in a variety of environments with all different nutrients, making it valuable to numerous typical mine chemistries such as oxidation, leaching and remediation.

And now the Company is taking it to the next level for research, opening a DNA/RNA division into how these organisms are functioning, AND potentially modifying them to enhance their performance.

“It really is remarkable; the ability to modify the DNA of microorganisms to enhance their existing capabilities. The potential for mining is immense. Imagine increasing the Sulfur metabolism in a bio-community designed for Chalcopyrite Leaching, eliminating sulfur-based passivation. Microorganisms have been mining mineralogy's for billions of years, and their DNA may hold the secrets to extracting the metals safely from their hosts”

said Kurtis Vanwallegham, CEO at Bio-Mine Ltd..

To accomplish this advancement, Bio-Mine Ltd. spent months in 2019 preparing their 7500 sq. ft Lab Facility for Advanced Genomics and Sequencing work, and in early 2020 Bio-Mine Ltd. will run its first 10 versions of our bio-community through the MiSEQ sequencer, signifying the beginning of how the most advanced research can benefit one the world's oldest industries.

Company

Founded in 2016, Bio-Mine Ltd. is an advanced research incubator for cleaner mine processes and remediation using biochemistry and advanced molecular science as its foundation. Bio-Mine believes the answers to cleaner mining will not come from metallurgy or conventional thinking, so the company approaches “*clean mining*” from a completely different, and highly scientific direction.

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