



NEWS RELEASE

# SATELLOS Announces Development Candidate

1/3/2023

– SAT-3153 Designated for pre-IND Studies –

**TORONTO, January 03, 2023** – Satellos Bioscience Inc. (TSXV: MSCL | OTCQB: MSCLF) (“Satellos” or the “Company”), a drug discovery company developing small molecule therapeutics to regenerate muscle as a new approach to treating disease conditions from muscular dystrophy to aging, is pleased to announce that it has designated SAT-3153 for development towards an IND filing.

“We are thrilled to be in a position to move SAT-3153 as a novel drug development candidate (“DC”) into pre-IND enabling studies in accordance with our previously announced timelines,” said Frank Gleeson, President and CEO of Satellos. “Collectively, we at Satellos believe passionately that a small molecule drug with the potential to regenerate functional muscle will have many advantages and benefits for patients living with Duchenne and other muscular dystrophies. We are thoroughly committed to bringing our new treatment to them as soon as possible.”

SAT-3153 is a small molecule designed by Satellos to inhibit a particular kinase protein which the company believes controls Notch polarity within muscle stem cells. The Company’s scientists have previously shown that muscle stem cell polarity is compromised in Duchenne, leading to a deficit in the body’s innate ability to regenerate muscle. Satellos believes this finding explains the progressive muscle destruction which characterizes Duchenne as the body cannot repair itself as intended. The Company’s scientists have shown in preclinical studies that inhibiting this kinase protein target enables the modulation of polarity and muscle stem cell divisions, enhances muscle regeneration, and increases muscle mass and critically, muscle function.

“SAT-3153 is one of the numerous compounds generated by Satellos scientists that we evaluated and prioritized pursuant to our press release announcement on November 3<sup>rd</sup>. Results from these preclinical ADME, PK and in vivo

studies have given us confidence to designate and advance SAT-3153 into pre-IND development studies as a DC intended for the treatment of Duchenne muscular dystrophy and potentially other dystrophic conditions,” said Phil Lambert PhD, Chief Technology Officer at Satellos. “With this milestone, we have already begun to schedule and lock-in slots with key IND-enabling service providers towards completing our 2023 objectives.”

## About Satellos Bioscience Inc.

Satellos is a biotechnology company dedicated to developing life-changing medicines to treat degenerative muscle conditions. Our scientists discovered what we believe to be a previously unrecognized root cause of skeletal muscle degeneration. One which has the potential to transform how muscle disorders are treated. Our scientific founder, Dr. Michael Rudnicki, is a thought leader who discovered and has shown how muscle stem cells regulate muscle repair and growth throughout life. He has shown how defects in a process known as stem cell “polarity”, which controls how muscle stem cells divide to create muscle progenitor cells, lead to a failure of muscle regeneration in Duchenne and potentially other muscle disorders. As a result of this ongoing inability to produce sufficient numbers of new muscle cells, the muscles of people living with Duchenne are unable to keep up with and repair the continuous and accumulating damage their muscles experience. Satellos’ lead program is focused on developing an oral therapeutic drug (i.e., a pill) intended to correct muscle stem cell polarity and restore the body’s innate muscle repair and regeneration process. We believe our unique therapeutic approach represents a potential disease modifying treatment for Duchenne and other dystrophies, offering new hope to patients. To expand our programs to other degenerative muscle conditions or disorders, Satellos has created a proprietary discovery platform, MyoReGenX™, which we utilize to identify disease situations where deficits in muscle stem cell polarity and regeneration occur and are amenable to therapeutic treatment. For more information about or to discuss potential collaborations with Satellos concerning our discovery platform and therapeutic candidates or our subsidiary Amphotericin B Technologies Inc., please contact Ryan Mitchell, Ph.D., Director – Business Development at [rmitchell@satellos.com](mailto:rmitchell@satellos.com) or visit [Satellos.com](http://Satellos.com).

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