November 6, 2018

ProMIS Neurosciences Discusses Critical Importance of Selectively Targeting the Root Cause of Alzheimer's Disease

Narrated white paper reveals lessons learned from15 years of drug development; pressing need to selectively target the toxic oligomer

TORONTO and CAMBRIDGE, MA, Nov. 6, 2018 /PRNewswire/ - ProMIS Neurosciences, Inc. (TSX: PMN) (OTCQB: ARFXF), a biotechnology company focused on the discovery and development of antibody therapeutics targeting toxic oligomers implicated in the development of neurodegenerative diseases, today issued a narrated scientific white paper titled: "The critical importance of selectivity when developing antibody therapies for Alzheimer's disease." The white paper highlights the lessons learned from more than 15 years of drug development for Alzheimer's disease (AD) and why selectively targeting its root cause, now understood to be the toxic oligomer, is the most promising therapeutic approach. The presentation is available on the company's website at https://bit.ly/2zpPtpq

In this presentation, Dr. James Kupiec, ProMIS Chief Medical Officer, discusses why selectively targeting toxic oligomers (known as pathologic, misfolded proteins) is critical when developing medicines for neurodegenerative disorders such as Alzheimer's disease, Parkinson's disease and ALS (amyotrophic lateral sclerosis). Dr. Kupiec outlines why PMN310, ProMIS' next-generation antibody, has the potential to become a best-in-class therapy among antibody treatments for AD. The paper also discusses design considerations for ProMIS' first clinical trial with PMN310, highlighting the use of novel biomarkers to capture potential early signs of efficacy of PMN310.

"Over the last dozen years, scientists across the Alzheimer's disease research community have come to recognize that it is the toxic oligomer form of amyloid beta (Aβ), and not the other forms such as Aβ monomers and plaque, that initiates the process of brain cell death in Alzheimer's, ultimately leading to the symptoms associated with this devastating disease", commented Dr. Kupiec. "Recent scientific data indicate that a best-in-class antibody therapeutic for Alzheimer's disease should target toxic oligomers without binding to non-toxic

forms of Aβ."

Results of preclinical evaluations clearly indicate PMN310 strongly and preferentially binds the toxic oligomers from humans with Alzheimer's disease, and it is therefore highly selective. Contrary to current antibody candidates in development, PMN310 as designed does not bind to Aβ monomers nor plaques or vascular deposits of amyloid.

"Owing to its highly selective binding to toxic oligomers, we do not anticipate observing a dose-limiting side effect such as brain swelling; and because of its unique selectivity, therapeutic doses would not be wasted on superfluous targets. Accordingly, we hope to demonstrate a greater clinical benefit than other Aβ-directed antibodies currently showing encouraging results in clinical trials", stated Dr. Kupiec.

Potential partners and members of the Alzheimer's disease community can access both the narrated white paper and a written transcript directly on the ProMIS Neurosciences website or at https://bit.ly/2zpPtpq

About ProMIS Neurosciences
ProMIS Neurosciences, Inc. is a development stage biotechnology company focused on discovering and developing antibody therapeutics selectively targeting toxic oligomers implicated in the development and progression of neurodegenerative diseases, in particular Alzheimer's disease (AD), amyotrophic lateral sclerosis (ALS) and Parkinson's disease (PD). The Company's proprietary target discovery engine is based on the use of two complementary techniques. The Company applies its thermodynamic, computational discovery platform -ProMIS™ and Collective Coordinates - to predict novel targets known as Disease Specific Epitopes on the molecular surface of misfolded proteins. Using this unique precision medicine approach, the Company is developing novel antibody therapeutics for AD, ALS and PD. ProMIS is headquartered in Toronto, Ontario, with offices in Cambridge, Massachusetts. ProMIS is listed on the Toronto Stock Exchange under the symbol PMN, and on the OTCQB Venture Market under the symbol ARFXF.

For further information about ProMIS Neurosciences, please consult the Company's website at: www.promisneurosciences.com

Follow us on Twitter
Like us on LinkedIn

The TSX has not reviewed and does not accept responsibility for the adequacy or accuracy of this release. This information release contains certain forward-looking information. Such information involves known and unknown risks, uncertainties and other factors that may cause actual results, performance or achievements to be materially different from those implied by statements herein, and therefore these statements should not be read as guarantees of future performance or results. All forward-looking statements are based on the Company's current beliefs as well as assumptions made by and information currently available to it as well as other factors. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date of this press release. Due to risks and uncertainties, including the risks and uncertainties identified by the Company in its public securities filings, actual events may differ materially from current expectations. The Company disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

View original content to download multimedia: http://www.prnewswire.com/news-releases/promis-neurosciences-discusses-critical-importance-of-selectively-targeting-the-root-cause-of-alzheimers-disease-300744403.html

SOURCE ProMIS Neurosciences Inc.