

Elevating Minds, Defeating Dementia

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NASDAQ: PMN

Corporate Presentation

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Pioneering Solutions for Neurodegenerative Diseases



ProMIS uses Precision Medicine and Artificial Intelligence to develop novel drugs to treat dementia and neurodegenerative diseases



Dementia Disorders

- Alzheimer's Disease
- Amyotrophic Lateral Sclerosis (ALS)
- Parkinson's Disease
- Multiple System Atrophy
- Lewy Body Dementia

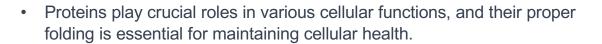
The Challenge: Impaired Cognition



- According to the World Health Organization, currently more than 55 million people have dementia worldwide
- There are nearly 10 million new cases diagnosed every year¹
- Dementia is a term for several diseases that affect memory, thinking, and the ability to perform daily activities
- > Dementia can lead to death, as it affects the brain and other vital organs
- Dementia is currently the seventh leading cause of death and one of the major causes of disability and dependency among older people, globally
- In the US, Alzheimer's disease, the most common form of dementia, the Alzheimer's Association reported that over 82,000 people died from Alzheimer's disease in 2019

¹WHO Fact sheet

Misfolded Proteins: A Leading Cause of Dementia and Neurodegeneration



- However, misfolding, the process in which a protein fails to adopt its correct three-dimensional structure, is a common occurrence.
- Misfolded proteins can arise due to genetic mutations, environmental factors, or errors in cellular processes.
- The gradual and inevitable nature of protein misfolding is part of the aging process
- When proteins misfold, they often lose their functional integrity and may acquire toxic properties.
- Misfolded proteins can aggregate, forming pathogenic clumps that interfere with normal cellular processes.
- These protein aggregates are a hallmark of several neurodegenerative diseases

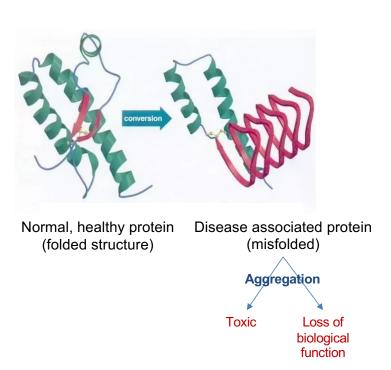


Image adapted from Racaniello V et al, virology.ws, 2016

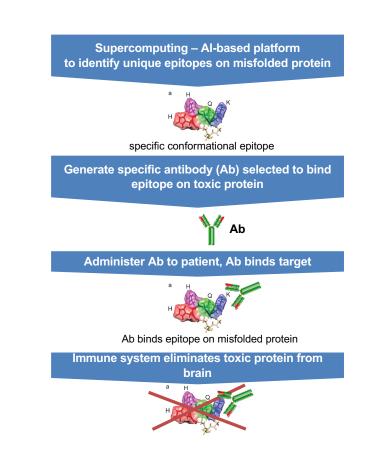
The ProMIS Solution

ProMIS has created a Novel, Unique, Patent Protected, Targeted platform to:

- 1. Predict disease-specific misfolding of proteins and identify unique binding sites (epitopes) on each of these misfolded proteins.
- 2. Create novel antibodies that bind strongly only to the specific epitopes allowing the body's immune system to selectively target and eliminate these toxic proteins from the brain
- 3. Objective: Slow or Halt Disease Progression

Misfolded proteins are different for each disease. Therefore, the platform can provide <u>highly specific drug candidates</u> for multiple diseases





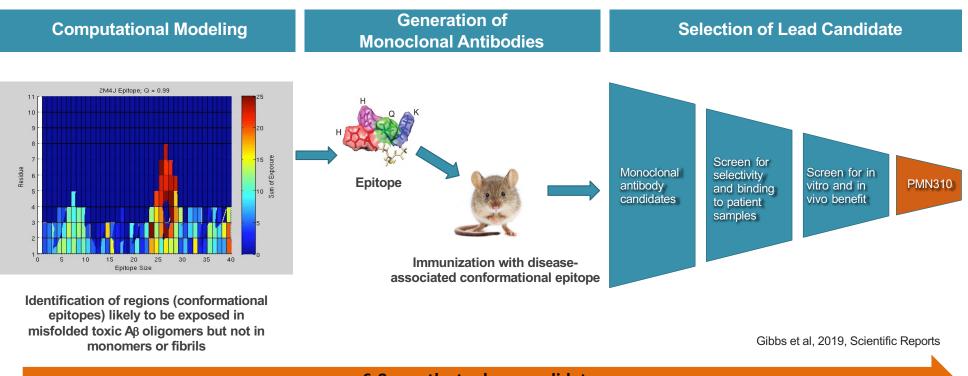
ProMIS Platform has Generated a Robust Pipeline of Selective ProMIS[™] Antibody/Vaccine Candidates for Toxic Misfolded Proteins

Product Candidate	Target Protein	Disease Indication	Discovery	Pre-Clinical	Phase 1	Phase 2	Phase 3
PMN310	Amyloid-Beta	AD					
PMN267	TDP-43	ALS					
PMN442	Alpha-Synuclein	MSA ¹					
Discovery	RACK1	ALS ² , HD					
Discovery	Tau	Alzheimer's², FTLD, PSP, CBD					
Discovery	DISC1+Interactome	Schizophrenia					
Discovery	Amyloid-Beta Vaccine	Alzheimer's Prevention					
Discovery	Alpha-Synuclein Vaccine	Synucleinopathies Prevention					

¹ The company plans to investigate additional synucleinopathies, including Parkinson's disease and dementia with Lewy bodies ²Initial indication AD: Alzheimer's disease, ALS: Amyotrophic lateral sclerosis, MSA: Multiple system atrophy, HD: Huntington's disease, FTLD: Frontotemporal lobar degeneration, PSP: Progressive supranuclear palsy, CBD: Corticobasal degeneration

ProMIS Computational Platform and Rational Design Capabilities Enabled the Creation of PMN310





6-8 months to drug candidates

ProMIS Extensive Patent Estate



- Over 125 total patent filings for entire portfolio, growing
- Global patent estate: Applications have been filed in the US, CA, with the EPO, Japan, and other globally strategic regions
- Extensive patent estate for the amyloid area (PMN310 plus other antibodies)
 - 9 issued patents and 43 pending
 - Patent coverage for PMN310 in US until 2036, plus potential data exclusivity extensions to 2042

Three-pronged IP strategy

- 1. Composition of Matter: Methods & Systems for Predicting Misfolded Peptide Epitopes (two computational algorithms, ProMIS[™] and Collective Coordinates)
- 2. Immunogens and methods directed to these disease-specific epitopes
- 3. Methods of use: antibodies targeting disease specific epitopes, and methods of use thereof

Experienced Leadership Team





ALZHEIMER'S DISEASE

ProMIS Lead Program: PMN310

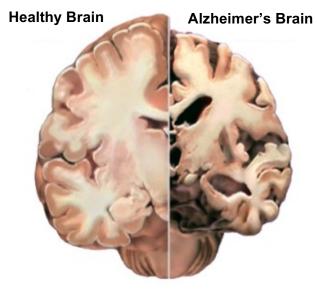
Differentiated Antibody Highly Selective for Misfolded, Toxic Oligomers of Amyloid-β





The Alzheimer's Brain: Neurodegeneration, Atrophy, Dementia





Anatomic view of the human Alzheimer's brain

- · Evidence of atrophy, or loss of brain substance
- · Thinning and widening of brain gyri and fissures
- Enlargements of the fluid spaces, including the lateral ventricle

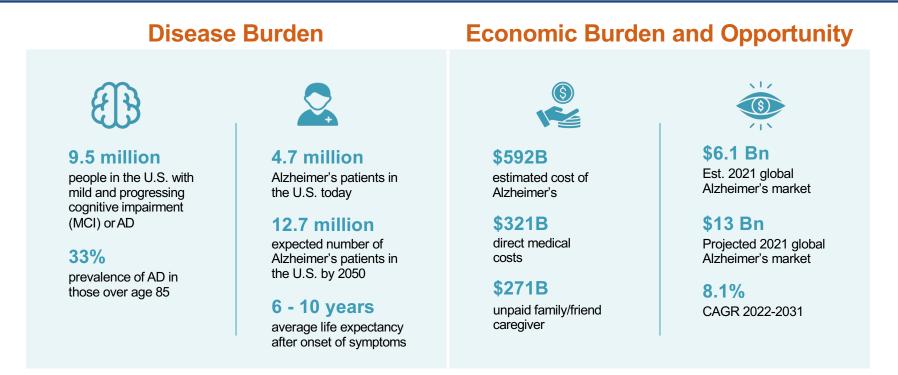
Images, National Institute on Aging

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Alzheimer's Disease is a Growing Problem: Significant Medical Need, Significant Cost Burden





Sources: Alzheimer's Association <u>www.alz.org</u> accessed 25Jan23; direct costs (2022) <u>https://www.alz.org/alzheimers-dementia/facts-figures</u> cost of unpaid caregiving (2021) <u>https://www.alz.org/news/2022/six-essential-alzheimers-terms; Allied Market Research</u>

PMN310 exclusively targets toxic forms of Aβ oligomers



- Alzheimer's disease (AD) is characterized by the accumulation of misfolded proteins, including highly toxic amyloid-beta (Aβ) oligomers
- > Toxic oligomers are a leading cause of disease pathology in AD
- ProMIS' lead drug candidate (PMN310) is a highly specific antibody that exclusively binds a specific epitope on the misfolded Aβ protein in toxic oligomers
- Binding, we believe, will result in elimination of the harmful and toxic protein from the brain to slow down or halt progression of Alzheimer's

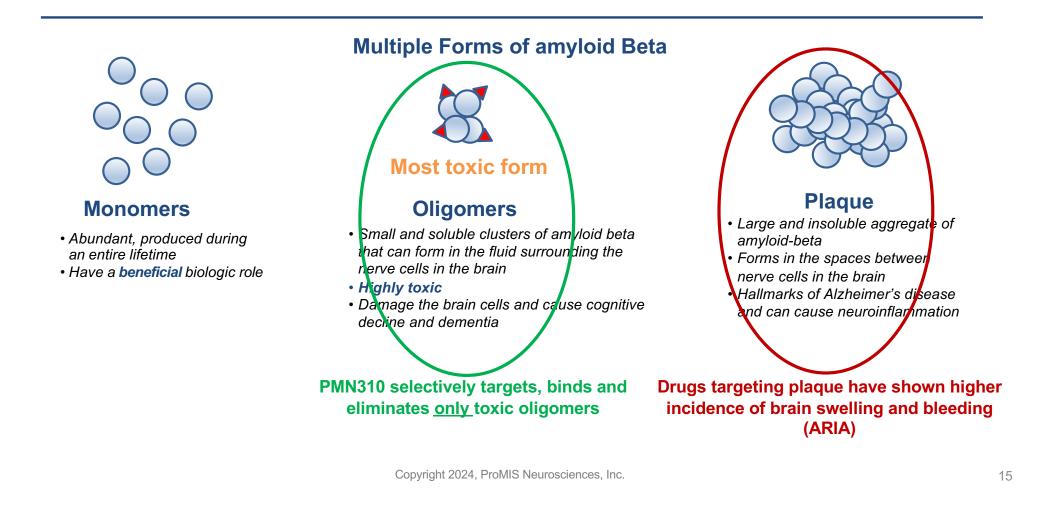
PMN310 is currently undergoing a Phase 1a human US clinical trial

Phase 1a data expected mid-2024



Specificity of PMN310 is key to efficacy and safety





Differentiation of PMN310 from other Aβ-Directed Antibodies

lecanemab gantenerumab **PMN310** solanezumab crenezumab aducanumab \diamond donanemab Δ_{Δ} Δ Monomers Δ Plaque-ARIA Non-Toxic Aggregates **Toxic Oligomers ProMIS**[™] **Non-Selective Antibodies Aggregate-Selective Antibodies** rosciences crenezumab, gantenerumab, solanezumab aducanumab, lecanemab, donanemab Drug **PMN310** Target oligomers more effectively Specific targeting of toxic oligomers Bind abundant non-toxic but incur increased risk of ARIA expected to result in increased monomers/aggregates and are Mechanism diverted away from the toxic associated with plaque binding efficacy and improved safety (reduced oligomer target risk of ARIA) **Clinical Benefit Potentially High** None Modest



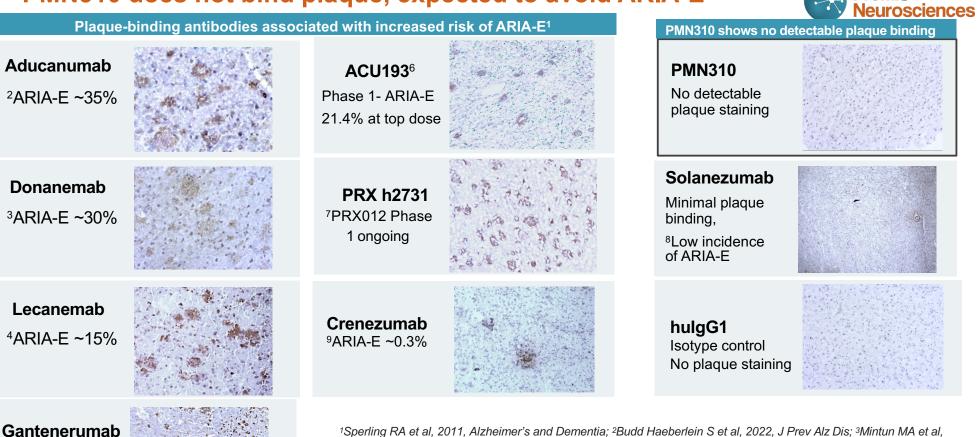


PMN310 is differentiated from other A β -directed antibodies

Antibody	Binding to toxic oligomers over monomers	Binding to plaque/ Plaque clearance	ARIA-E	Clinical outcomes
PMN310	+++	- / TBD	Not Expected	TBD – PMN310 selectivity has potential for greater efficacy (entire dose focused on toxic A β O) and improved safety (no ARIA)
PRX h2731	-	+ / TBD	TBD	TBD - Reported "encouraging amyloid reductions" at 6 months
ACU193	+++	+/+	21.4% at top dose	Effect on cognition TBD. Improvement in blood and CSF biomarkers.
Gantenerumab	-	+/+	~25%	No cognitive benefit. Some Improvement in blood and CSF biomarkers.
Donanemab	++	+/+	~30%	~29% reduction in cognitive decline (CDR-SB). Improvement in blood and CSF biomarkers.
Lecanemab	++	+/+	~15%	~27% reduction in cognitive decline (CDR-SB). Improvement in blood and CSF biomarkers.
Aducanumab	+	+ /+	~35%	~22% reduction in cognitive decline (CDR-SB). Improvement in blood and CSF biomarkers.

PMN310 does not bind plaque, expected to avoid ARIA-E

⁵ARIA-E ~25%



2021, NEJM; ⁴Swanson CJ et al, 2021, Alzheimer's Research and Therapy; ⁵https://www.roche.com/media/releases/med-

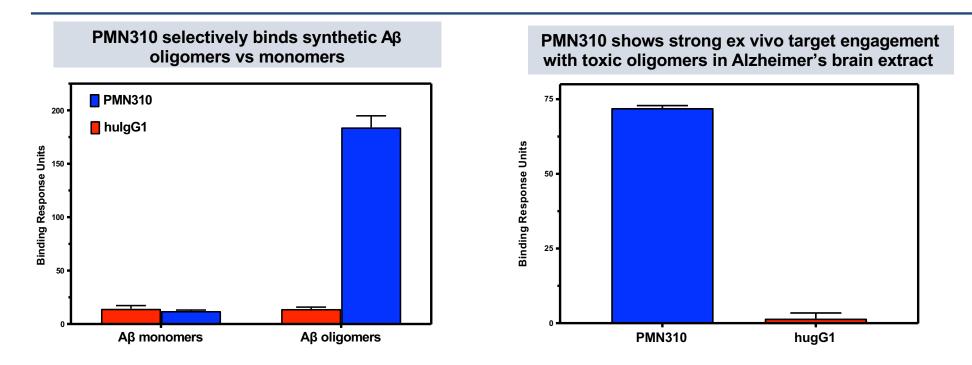
cor-2022-11-14; 6Siemers E et al, 2023, J Prev Alz Dis; 7Tam S et al, 2021, Alzheimer's and Dementia; 8Ostrowitzki S et al,

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2022, JAMA Neurol; 9Carlson C et al, 2016, Alzheimer's and Dementia

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PMN310 targets a conformational epitope present on toxic A β \bigotimes **ProMISTM** Neurosciences oligomers, not monomers

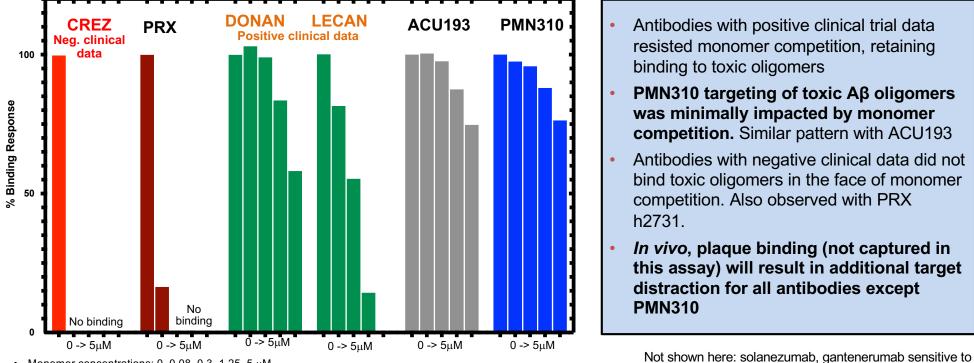


Surface plasmon resonance (SPR) was used to measure the binding of immobilized PMN310, or a human IgG1 isotype control (hulgG1), to synthetic A β monomers or oligomers, and to the toxic oligomer-enriched low molecular weight fraction of soluble AD brain extract (~8-70 kDa)

PMN310 binding to toxic oligomers is minimally impacted by monomer competition, a potential correlate of clinical efficacy



Binding to toxic oligomer-enriched fraction of AD brain with monomer competition from 0-5 μ M



Monomer concentrations: 0, 0.08, 0.3, 1.25, 5 μM

• CREZ: crenezumab, PRX: Prothena PRX h2371, DONAN: donanemab, LECAN: lecanemab. All comparator antibodies are biosimilars.

· Percent binding response: [(Binding response units (BRU) with monomers) / (BRU without monomers)]X100

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monomer competition; aducanumab more resistant

Clinical Differentiation of PMN310



PNM310 is unique in that it binds only to the toxic oligomer form of amyloid-beta

- PMN310 does not bind plaque or monomers
- Most drugs are not able to distinguish the different forms of Aβ and therefore, bind all three or at least two forms of Aβ
- > Drugs that bind several forms of A β limit the amount of drug that can bind the key toxic form (oligomers)
- > Drugs that bind plaque are associated with increased serious side effects swelling of the brain (ARIA)

Expected effect of PMN310

- Higher efficacy (at lower doses)
- Improved safety profile (no ARIA)
- Higher therapeutic index

ALZHEIMER'S DISEASE

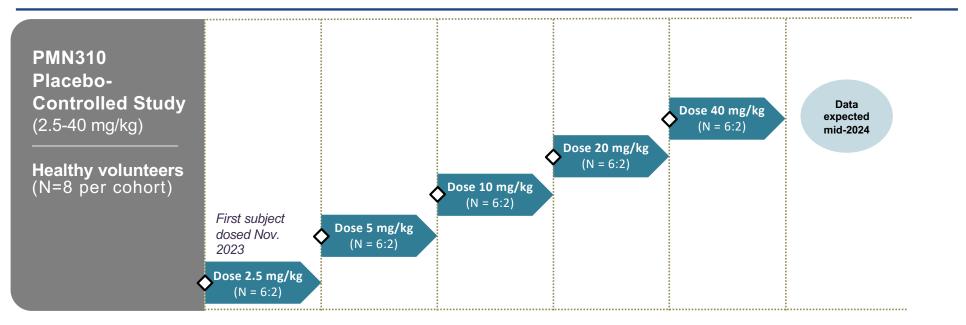
PMN310 Clinical Development

Phase 1 study is ongoing in the U.S.





PMN310 Phase 1a First-in-Human Single Ascending Dose (SAD) PK Study: Ongoing, data expected mid-year



SAD Study Delivers: • Safety and tolerability across wide dose range, enabling confident dose selection for MAD study in AD patients

• Safe, well-tolerated dose that provides CSF concentrations required for target engagement

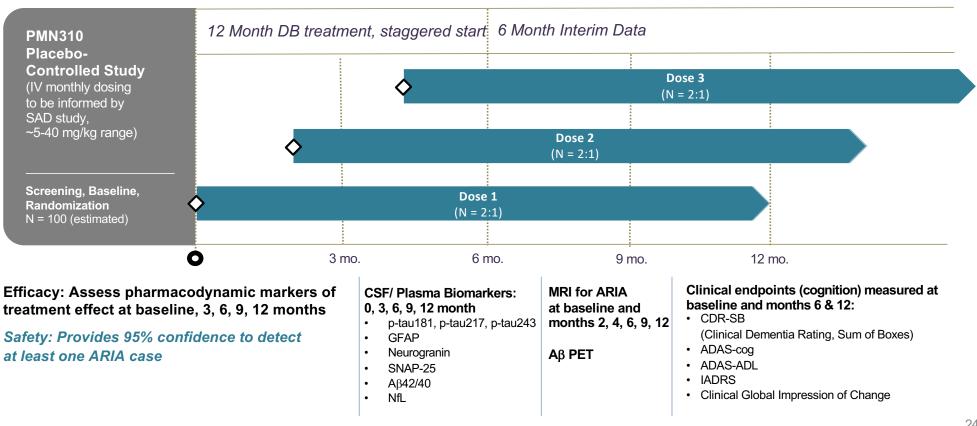
SAD, Single Ascending Dose; MAD, Multiple Ascending Dose; AD, Alzheimer's Disease

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Preliminary PMN310 Phase 1b MAD Trial Design in AD Patients 12-month double-blinded treatment, interim 6-month data, N=100 completers



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ProMIS Investment Thesis





ProMIS Investment Thesis



- > Developing novel treatments for multiple dementias and neurodegenerative diseases: strong patent estate
- Unique in its ability to identify novel binding sites (epitopes) on misfolded proteins, responsible for disease progression
- > PMN310, lead drug candidate, in the clinic for treatment of Alzheimer's disease
- > Phase 1a ongoing, proof of concept 1b trial expected to initiate 2H'24
- PMN310 is unique in ability to only bind the most toxic form of amyloid-beta (toxic oligomers), there appears to be no binding of plaque, and, therefore, fewer side effects, including ARIA (brain swelling/ hemorrhage) are expected
- > Broad platform has potential to treat numerous dementias including AD, ALS, Parkinson's, MSA
- > Pipeline products are poised to enter clinic with demonstrated Proof-of-Concept in Alzheimer's disease
- > World-class management team, global expertise in drug development and commercialization





Elevating Minds, Defeating Dementia

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