

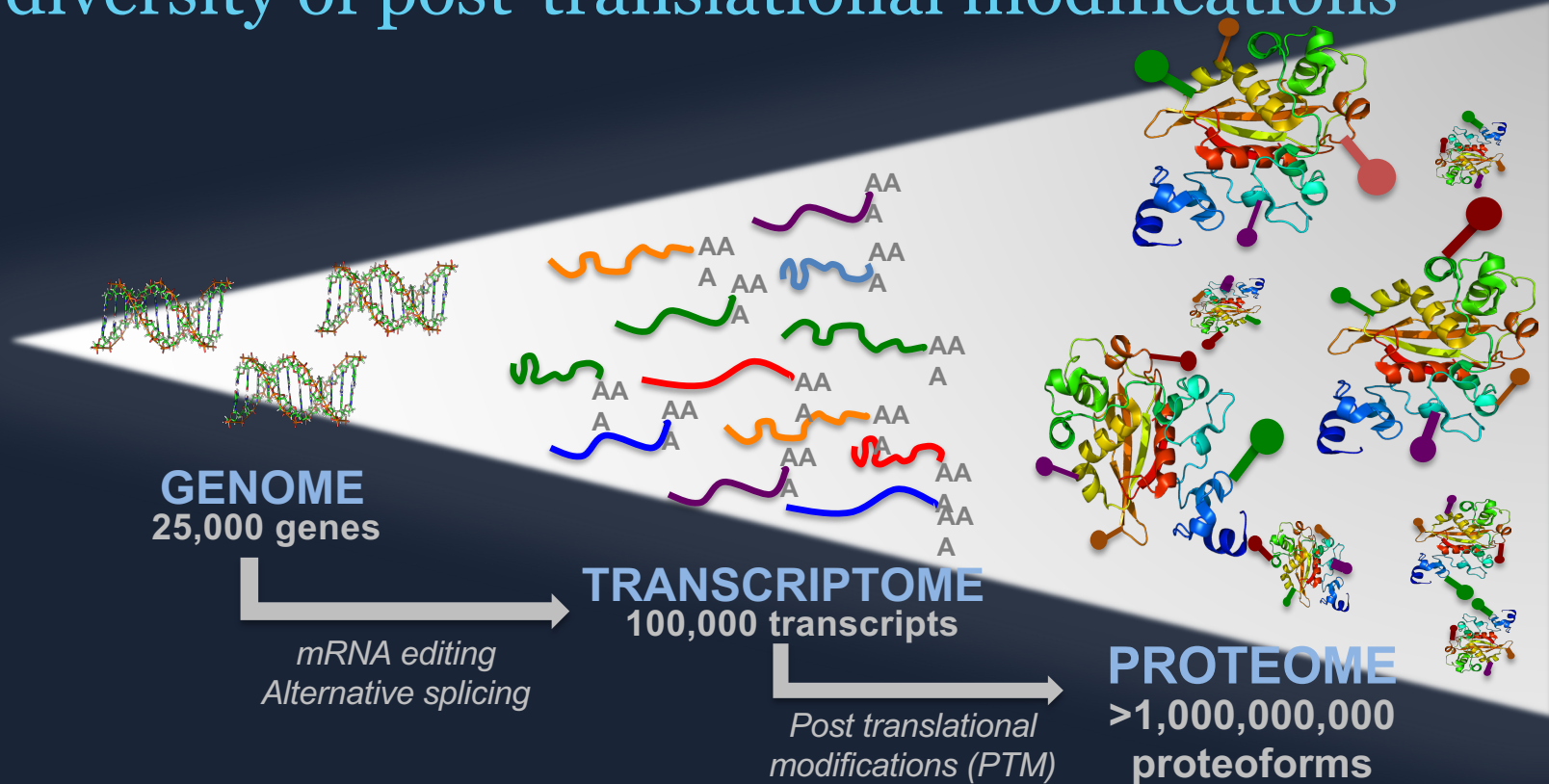


Nonconfidential Corporate Overview

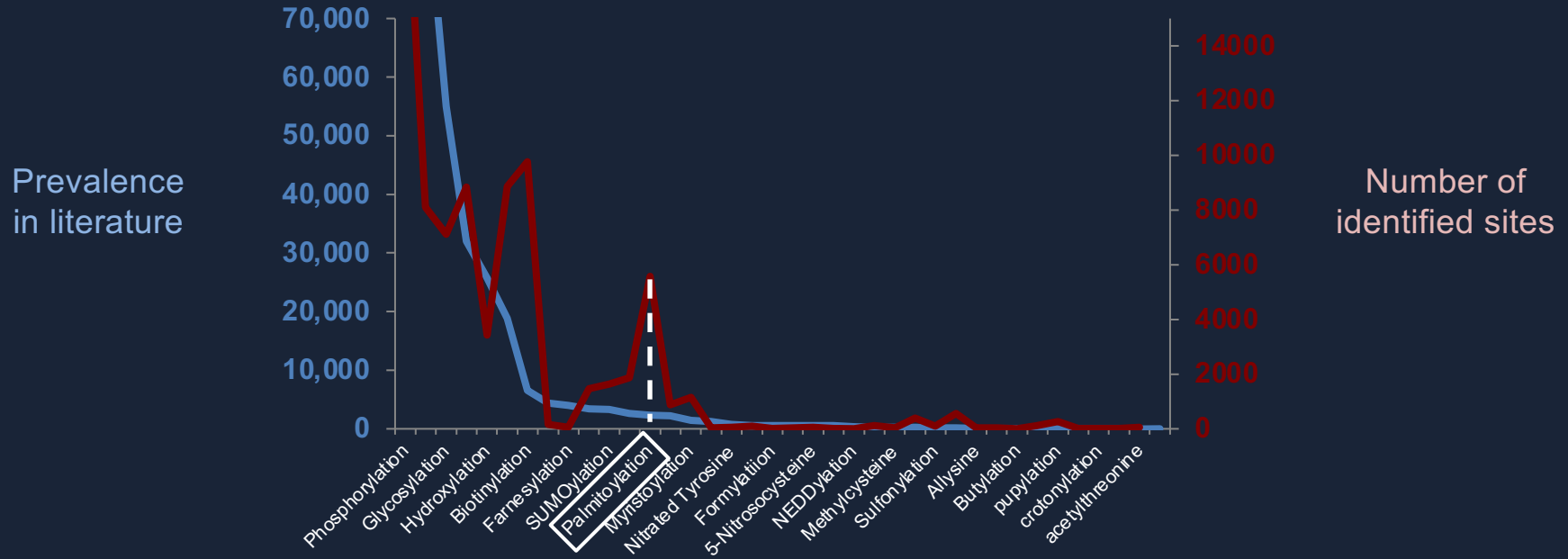


Envisioning a world
where each individual
retains full brain
function and cognitive
faculties throughout
life

The PROTEOME world is huge due to the diversity of post-translational modifications

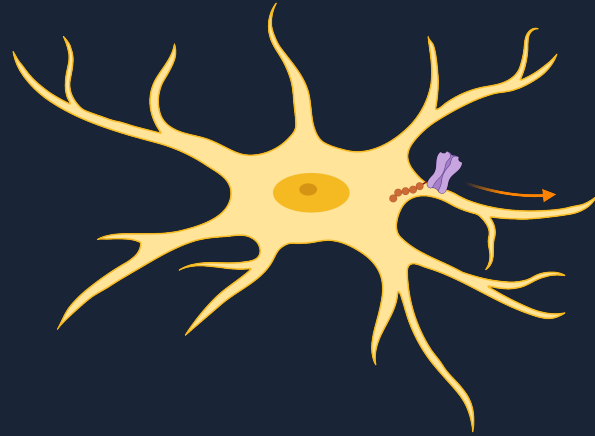
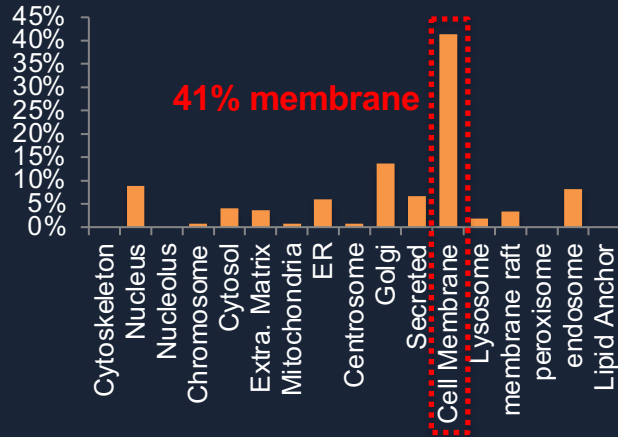


Palmitoylation—one of the most prevalent PTMs—has not been widely investigated



A functional relationship exists between palmitoylation and protein localization

Localization of palmitoyl-proteins



Half of all palmitoyl-proteins are found in synapses

Palmitoylation can rapidly and dynamically localize proteins to lipid membranes

Harnessing the biology of protein palmitoylation to treat serious neurological diseases

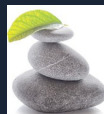
\$4M in seed funding raised to date



DAYLI



THE LONGEVITY FUND



Keystone
Capital

Circumvent's Pipeline and Key Activities



Palmitate erasers for Batten's Disease

Development Candidate in IND-enabling studies for CLN1 Disease

Targeting palmitoyl-proteins in other synaptopathies

Drug discovery and patient subtyping

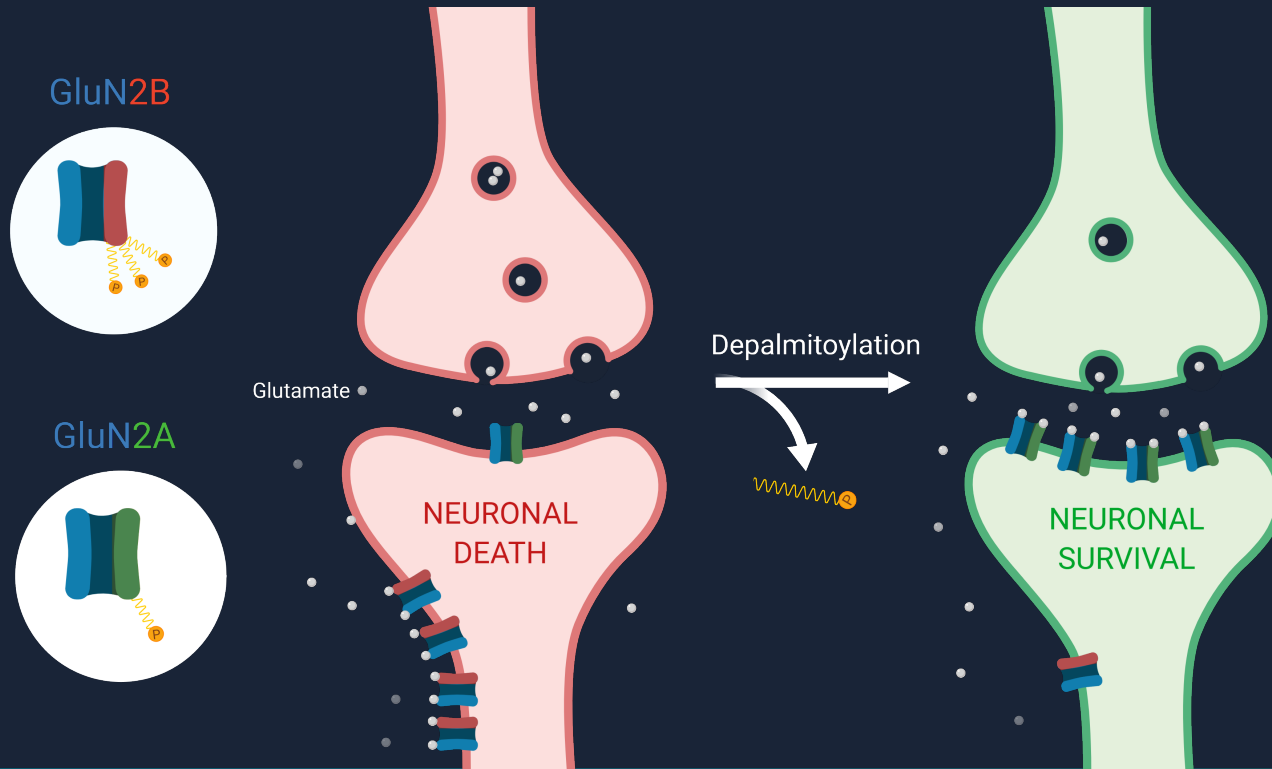
Palmitoyl-proteomic profiling and target ID in other serious diseases

Discovery Research Platform

Mapping the palmitoylome and palmitoylation gene interactome yields putative disease targets

1. We mapped out the network of palmitoylation pathway genes, their interaction partners, and known substrates
2. We mine this network for any disease-associated proteins and score these targets based on disease relevance
3. We generate hypotheses of how dysregulation of palmitoylation and protein mislocalization drives disease

Localization of Glutamate Receptors Mediating Neuronal Excitotoxicity is Regulated by Palmitoylation

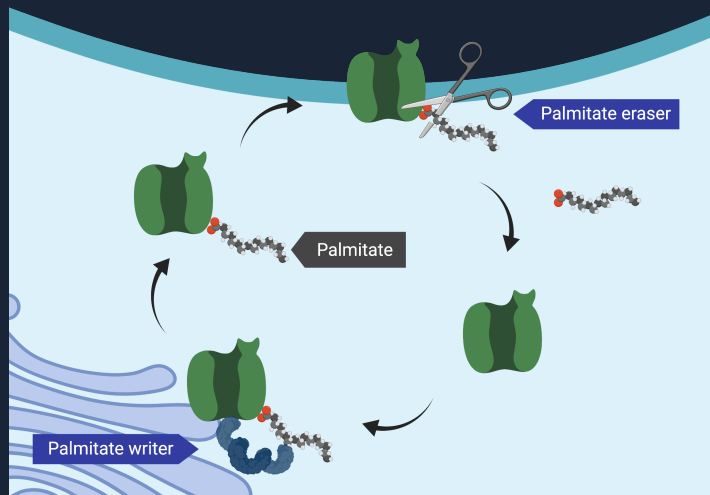


Higher **extrasynaptic** : **synaptic** NMDA receptor distribution makes neurons susceptible to glutamate excitotoxicity

Palmitoylation regulates **extrasynaptic** : **synaptic** NMDA receptor distribution

Modulating palmitoylation can improve on the safety and efficacy of clinically validated anti-glutamatergic drugs that block NMDA receptors broadly

Circumvent's Medicinal Chemistry Platform for Small Molecule Palmitate Erasers

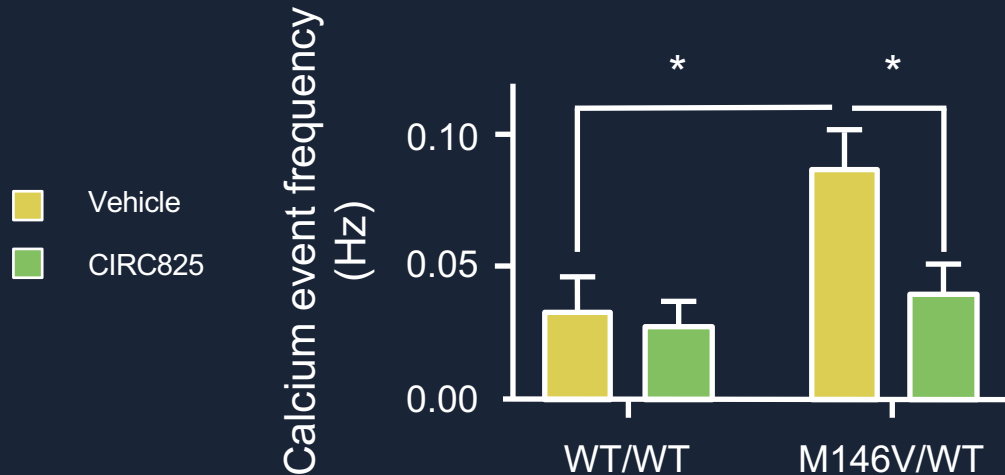


Palmitate is added to proteins by acetyltransferases (palmitate writers) and removed by thioesterases (palmitate erasers)



We've developed a platform of small molecule palmitate erasers that exploit a well-known chemical reaction to cleave palmitoyl-thioester bonds

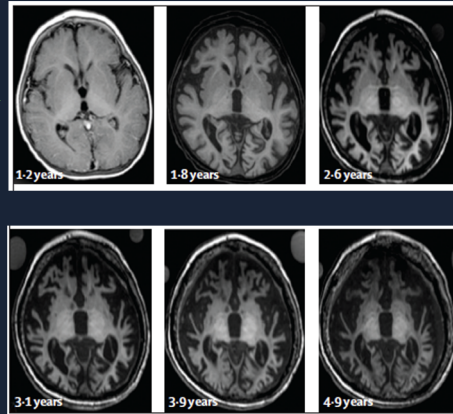
Small Molecule Palmitate Erasers Reduce Hyperexcitability in AD hiPSC-Derived Cerebrocortical Neurons



- AD neurons (containing familial PSEN1 mutation) manifest enhanced intracellular calcium levels and spontaneous transients compared with WT isogenic neurons
- Calcium event frequency is quantified before and after addition of compound
- Small molecule palmitate eraser inhibits spontaneous calcium activity

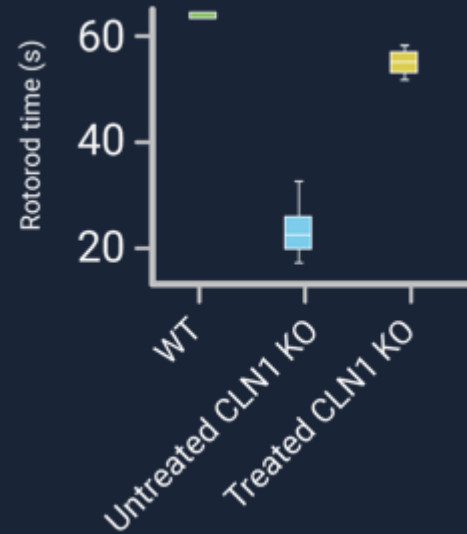
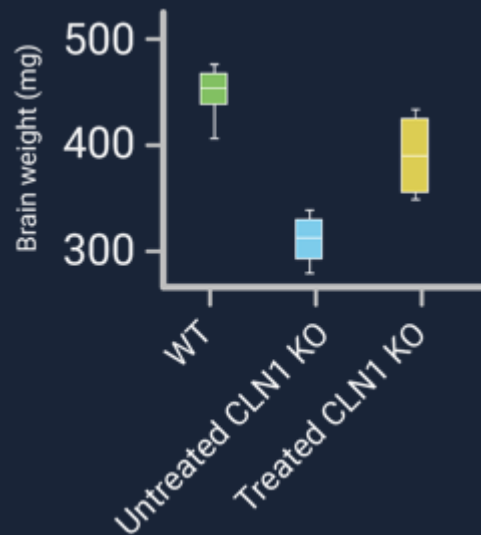
CLN1 Batten Disease is a Genetically Defined Synaptopathy Caused by Aberrant Palmitoyl Protein Processing

Garrett



- Accelerated form of **neurodegeneration** that occurs in infants and children
- Caused by loss-of-function mutation in a palmitoyl-protein thioesterase (Ppt1)
- Causes over-palmitoylation of synaptic proteins, resulting in excitotoxic neuronal death

CIRC825 Drives Efficacy in Clinically Meaningful Endpoints of CLN1 Disease Animal Model



Conditions for CLN1 KO *in vivo* studies: 15 mg/kg oral dosing, initiated at 3 months of age, observation at 6 months of age

Highly Accomplished Leadership Team

Andrew Lim
Chief Executive Officer



Samy Hamdouche PhD
Chief Business Officer



Devin Wiley MD PhD
Chief Medical Officer



Robert Steiner MD
Head of Translational Medicine



Robert DeVita PhD
Head of Drug Discovery



Steven Duddy PhD
Head of Toxicology



Supported by Leading Experts



Anil Mukherjee, MD, PhD
National Institutes of Health
CLN1 Disease Biology



Stuart Lipton, MD, PhD
Scripps Research
Alzheimer's Disease Biology
Inventor of Namenda®



Angela Schulz, MD, PhD
UKE Hamburg
Batten Disease Clinician
PI of Brineura® Trial



Rudy Tanzi, MD, PhD
Harvard MassGen
Alzheimer's Disease Biology
Discovered Familial AD Genes



Leonard Post, PhD
Former CSO of BioMarin
Batten Disease Biology
Led Brineura® Development



Dale Martin, PhD
University of Waterloo
ALS and Huntington's Biology
Palmitoyl proteomics innovator

Upcoming Milestones

Milestone	Timing
CIRC825: Advance palmitate eraser Development Candidate to IND	4Q 2021
Expand palmitoyl proteomics and biology platform across a range of ND conditions including AD, PD, HD and neuropsychiatric disorders	2021
Evaluate partnership opportunities	1H 2021
Designate a Development Candidate for additional palmitoylation driven synaptopathies	2Q 2021

Currently raising \$1M in additional funds

Exit Scenarios – Significant Demand in Neuro

- Merck acquisition of TRPML1 agonist developer Calporta for up to \$567M (preclinical) – Nov 2019
- Lilly acquisition of Disarm for \$135M upfront (preclinical) – Oct 2020



Harnessing the biology of protein palmitoylation