

# A measurable next step in ALS research

ONQIVA seeks financial support from individuals and philanthropic funders to test whether early motor-neuron recovery after brief stress predicts the response to a second challenge better than a single image.

## IN HAND

Publications and analysis

## TO TEST

ALS recovery prediction

## SEEKING

Individual and philanthropic support

## RESEARCH RECORD

Published: First-author vitamin D and cancer review (PMID 37054849); coauthored osteosarcoma mechanisms paper (DOI 10.3389/fonc.2023.1188641).

Bench: Hands-on protein research and earlier incubator-based culture work. Original culture assay records are being reconstructed; no prior ALS cell result is claimed.

Modeling: Hand-worked mathematics carried into a reproducible NHANES survival analysis (515 adults, 35 observed deaths), with code and limitations public.

## THE PROPOSED TEST

Published C9orf72 motor-neuron research (PMCID PMC10996466) reports impaired TDP-43 recovery after repeated mild injury. ONQIVA's proposed contribution is a prespecified prediction test: can a recovery curve forecast later TDP-43 localization and cell health in held-out cultures better than a baseline snapshot?

If the dynamic measure adds no value across independent lines, that proposed marker fails its key test. This study would not establish a patient test or treatment.

## WHAT SUPPORT WOULD ENABLE

01

### Assay feasibility

Set a reproducible, nonlethal stress-and-recovery imaging protocol in a motor-neuron-like culture. Deliver: protocol and quality criteria.

02

### Human-cell comparison

Compare C9orf72 iPSC-derived motor neurons with isogenic controls across independent differentiations. Deliver: recovery curves and uncertainty.

03

### Held-out prediction

Lock the model and compare recovery-based versus snapshot-based forecasts on independent cultures. Deliver: blinded result, including null findings.

## FINANCIAL SUPPORT REQUEST

Support from individuals and philanthropic funders would pay for qualified research time, lab access, cell models and reagents, imaging, analysis, and reporting. A scoped budget and execution plan would precede any funded experiment. Supporters would receive a protocol and decision report, including null findings.