

Enabling the Nervous System to Repair Itself

Corporate Presentation

June 2024

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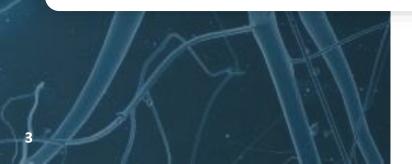
NervGen Highlights

NVG-291, a novel first-in-class drug candidate with potential to **repair nervous system damage** and restore motor, sensory and cognitive function

Demonstrated functional improvement in **six different preclinical models** in several independent labs

Phase 1b/2a in spinal cord injury underway

Our pipeline of indications includes ALS, stroke, multiple sclerosis, and Alzheimer's disease





Leadership



Mike Kelly, MBA **Chief Executive Officer**

Mike has over 30 years of pharmaceutical experience. Most recently, as President of US Operations for Adapt Pharma, Inc., which developed and commercialized NARCAN (naloxone HCl) Nasal Spray in the US and Canada and was sold to Emergent BioSolutions for US\$735 million.



Bill Adams, CPA, CA **Chief Financial Officer**

Bill has over 25 years of strategic financial management experience that includes mergers and acquisitions, operations and capital markets in Canada and the US.



Chief Medical Officer Dan has over 25 years of pharmaceutical experience as

a practicing physician conducting clinical research in the field of neurology. Most recently, at Amgen he served as the Head of clinical development in neuroscience and nephrology and was instrumental in the approval of Aimovig. Dan was also the development lead for Tysabri at Biogen and supported the Japan approval of Tysabri for relapsing multiple sclerosis.



Chuck Olson, DSc Sr. VP, Technical Operations

Chuck has over 40 years of experience as a biotechnology industry professional with a broad scientific and operational experience in process development, manufacturing and CMC associated quality and regulatory activities for many clinical and commercial products.



Liz Eberhardt, BSc Sr. VP, Project Management

Liz has over 25 years of biotech experience in product leadership and program management. Throughout her career, Liz has taken multiple compounds through all stages of development including preclinical and commercialization



Matvey Lukashev, PhD VP, Research & Preclinical Dev.

Matvey has over 30 years of experience in academia, industry and biotech settings focused on translational research and drug discovery.

RESPONSE AnorMED EMD Anandia UILFORD DHARMACEUTICALS



AMGEN



BOMARIN

VIROPHARMA





ADAPT

AZUR PHARMA

Jazz Pharmaceuticals.

History of NervGen Technology

1990s

Dr. Silver discovered that glial scars contains chondroitin sulfate proteoglycans (**CSPG**), a group of molecules known to inhibit cellular events central to neural tissue repair





Dr. Silver and collaborators from Harvard codiscovered that CSPGs bind to protein tyrosine phosphatase sigma (**PTPo**), a receptor present in the brain and spinal cord and involved in CSPGdependent inhibition of neuroplasticity

2009



2015

Dr. Silver's team designed a peptide (NVG-291-R) derived from PTPo shown to relieve CSPG-mediated inhibition of nervous system repair. **NVG-291** is the humanized version of NVG-291-R



2018

NervGen licensed NVG-291 **global rights for development and commercialization** in all indications from Case Western with intellectual property protection until 2037

2023

NervGen has initiated a Phase 1b/2a placebocontrolled proof-ofconcept trial (NCT05965700) to evaluate the efficacy of NVG-291





Phase 1b/2a Trial



NVG-291: Product Candidate Overview



- Designed to cross cell membranes for enhanced cellular uptake of the drug
- Route of administration is subcutaneous injection
- Manufactured by chemical synthesis
- Discovery focused on analogs with new composition of matter IP, improvements in pharmacology and cost of manufacturing



All Trial: NVG-291-All hophilized powder for subteditected by clinical pro-6611019 Retest Date: I Store at -20°C Australia) Tel: +61.2.8

Product Pipeline

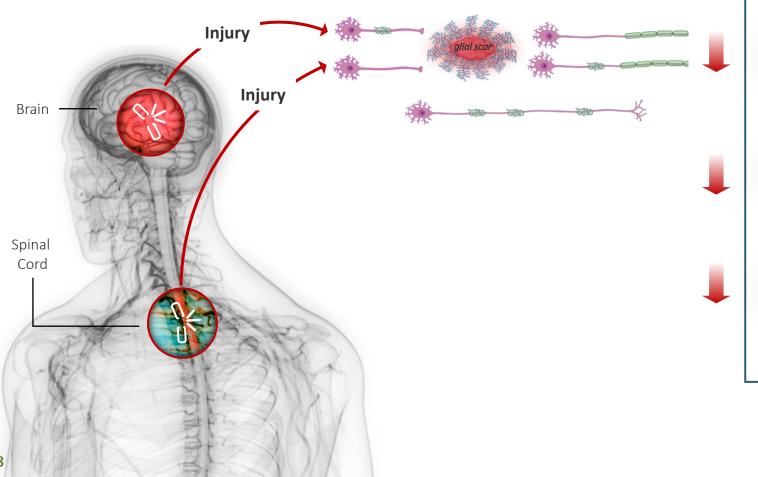
Multiple development opportunities

CANDIDATE	PROGRAM	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 1b/2a
NVG-291	Spinal Cord Injury				
	Stroke				
	Amyotrophic Lateral Sclerosis				
NVG-300*	Stroke				
	Amyotrophic Lateral Sclerosis				
	Alzheimer's Disease				
	Multiple Sclerosis				
Next-Generation Compounds	Candidate Selection				



Nervous System Damage Has Limited Treatment Alternatives

Glial scars and accumulation of CSPGs suppress CNS repair



Plasticity Formation of new neuronal connections and rewiring of existing ones

Key Repair Mechanisms

Axonal Regeneration

The ability of a severed axon to reestablish connectivity with other neurons

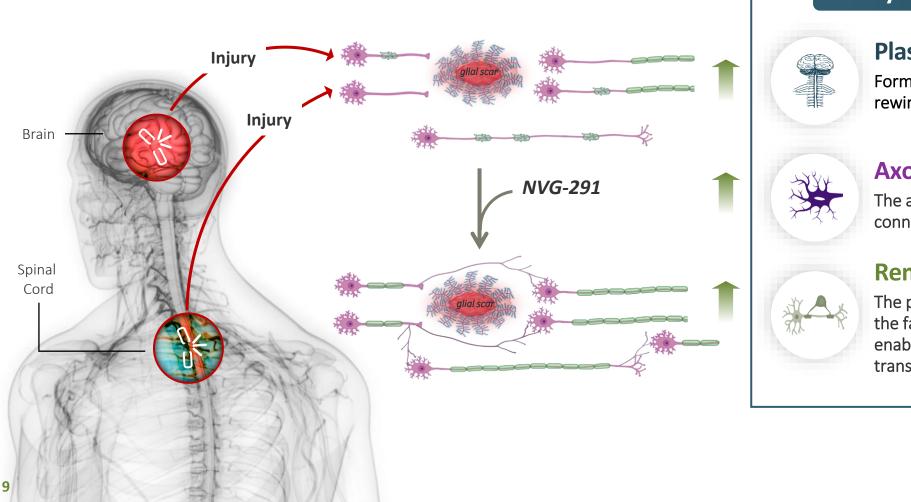
Remyelination

The process of repairing damaged myelin, the fatty substance that protects axons and enables fast electrochemical impulse transmission



Novel Therapy Under Development to Repair Nervous System Damage

NVG-291 targets negative effects of CSPGs on CNS repair



Key Repair Mechanisms

Plasticity

Formation of new neuronal connections and rewiring of existing ones

Axonal Regeneration

The ability of a severed axon to reestablish connectivity with other neurons

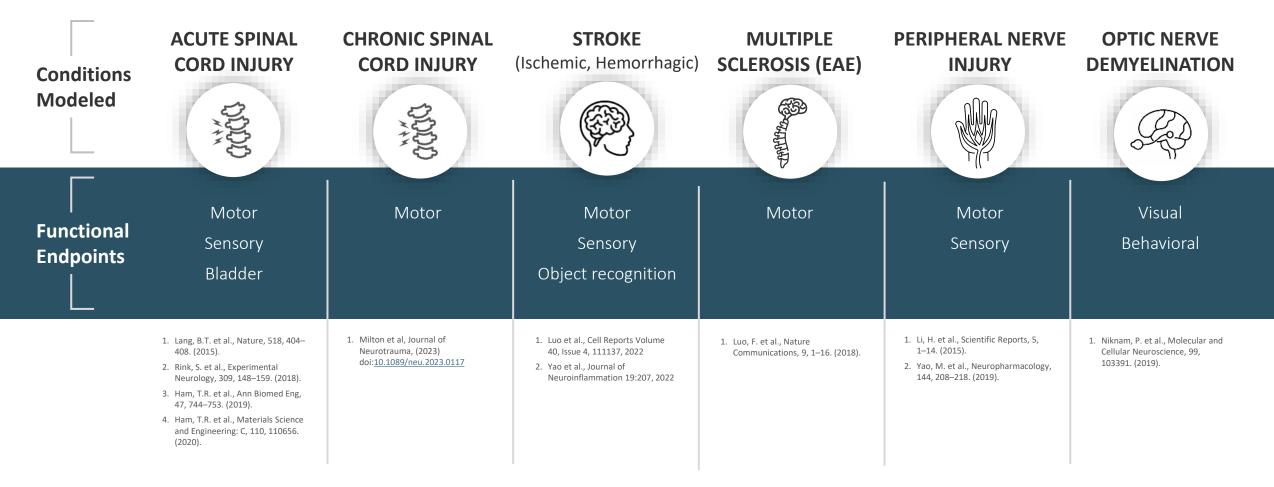
Remyelination

The process of repairing damaged myelin, the fatty substance that protects axons and enables fast electrochemical impulse transmission



Multiple Preclinical Studies Using NVG-291-R* Report Improved CNS/PNS Repair

Enhanced Plasticity, Repair (Axonal, Myelination), and Recovery of Function





Nervous System Damage Markets and Opportunity

Significant medical costs and morbidity

	COCCO	(FB)		Contraction of the second seco	
	SCI	Ischemic Stroke	ALS	MS	AD
Incidence*	18,000	~690,000	~7,000	10,000	500,000
Prevalence*	291,000	9.4M	~25K-30K	~1M	6.7M
Lifetime Cost*	\$1M-\$4M+	\$140,000+	\$1.4M	\$4M+	\$400,000
System Cost*	\$50B+	\$57B	\$250M-\$1.0B	\$85B	\$320B-\$345B
Current Treatment [*]	Decompressive surgery and rehabilitation	TPA must be given within hours of stroke; rehabilitation	Disease modifying agents (e.g. riluzole, edaravone) to slow progression – none stop progression	Immunomodulatory/ immunosuppressive therapies to reduce relapses and/or slow progression	Symptomatic therapies (e.g. cholinesterase inhibitors) to temporarily improve cognition; anti- beta mAbs to slow progression
Unmet Needs [*]	Effective treatments to enhance recovery	Effective treatments to enhance recovery	Treatment that improve function	Treatments to remyelinate axons and improve function	Treatments to effect enduring improvements



* US only
Depicts current market opportunity of lead indication

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SCI Demographics

- Average age: ~43
- Male (78%), female (22%)
- Cause: vehicle (38%); fall (33%); violence (15%); sports (8%)
- Annual hospitalization (30%): UTI, pneumonia, decubitus ulcer
- Duration of hospitalization and rehabilitation: 2 to 3 months
- Chance of depression: 25%
- Significant urinary and sexual dysfunction



No FDA approved drugs to enable sustained functional recovery



SCI Facts and Figures

Incidence and Prevalence

~18,000

Spinal cord injuries every year in the US¹

~300,000

People living in the US who have suffered a spinal cord injury in 2019¹

^{up to} 500,000

13

Worldwide, the estimated **annual incidence** of spinal cord injury²

(1) NSCSC: SCI Facts and Figures at a Glance; 2019 SCI Data Sheet Accessed May 11,2023. (2) World Health Organization, Key Facts on Spinal Cord Injury, 2013; https://www.who.int/news-room/fact-sheets/detail/spinal-cord-injury. (3) DeVivo MJ, et. Al. Costs of Care Following Spinal Cord Injury, Top. Spinal Cord Inj. Rehab. 2011;16(4):1-9. (4) Cao Y, Chen Y, DeVivo MJ, Lifetime Direct Costs After Spinal Cord Injury, Top. Spinal Cord Inj. Rehab. 2011;16(4):10-16 (5) Merritt CH, Taylor MA, Yelton CJ, Ray SK Economic impact of traumatic spinal cord injuries in the US, Neuroimmunol. Neuroinflammation 2019;6:9

Economic Impact

Individuals with SCI face a difficult and expensive journey through the healthcare system; that journey begins with **2-3 months in rehabilitation** and **costs \$200,000 or more per patient**³

Each individual with SCI faces an expected **lifetime cost of care between \$1M and \$4M**, depending on severity and age at injury⁴

In addition to the enormous economic costs, individuals with SCI face a **shorter expected lifespan, higher unemployment, higher chance of bankruptcy**⁵



Acute SCI Preclinical Study

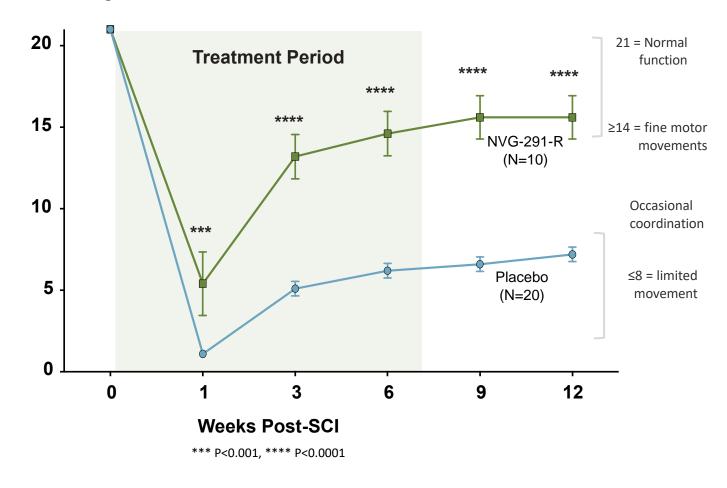
Overview

- T8 compression injury
- 500 µg/day x 7 weeks
- Treatment began 1 day post injury

Results

- Significant recovery of locomotor and bladder function
- Enhanced neuroplasticity (i.e. axonal sprouting) near and far from injury
- Functional improvements persist after treatment
- NVG-291-R can promote recovery in acute SCI

Basso, Beattie, Bresnahan Rating Scale





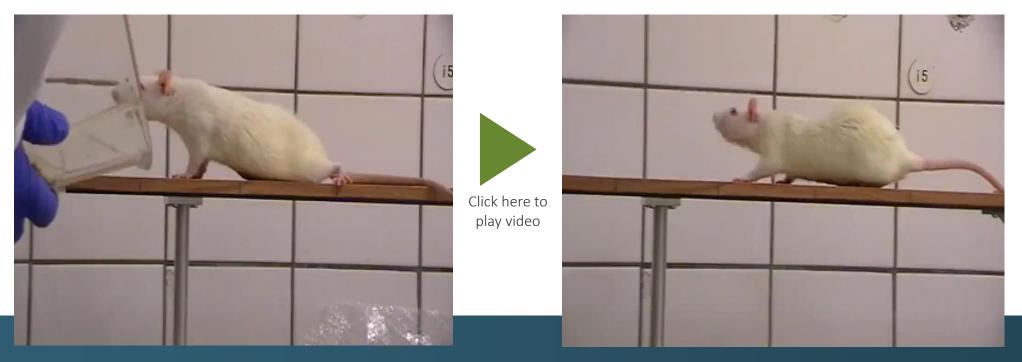
NVG-291-R: Severe Spinal Cord Injury Model

Representative of Placebo Group

(Back Legs and Tail Dragging)

Representative of NVG-291-R Group

(Back Legs and Tail Active)



Remarkable and robust repair across multiple models



NVG-291-R: Severe Spinal Cord Injury Model

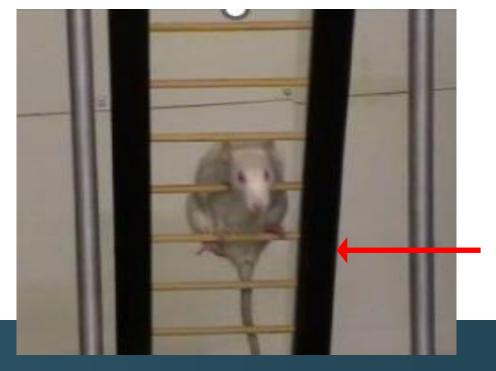
Representative of Placebo Group



Hind legs are immobile



Representative of NVG-291 Group



Significant motor recovery: consistent coordination, toe clearance, tail held high consistently



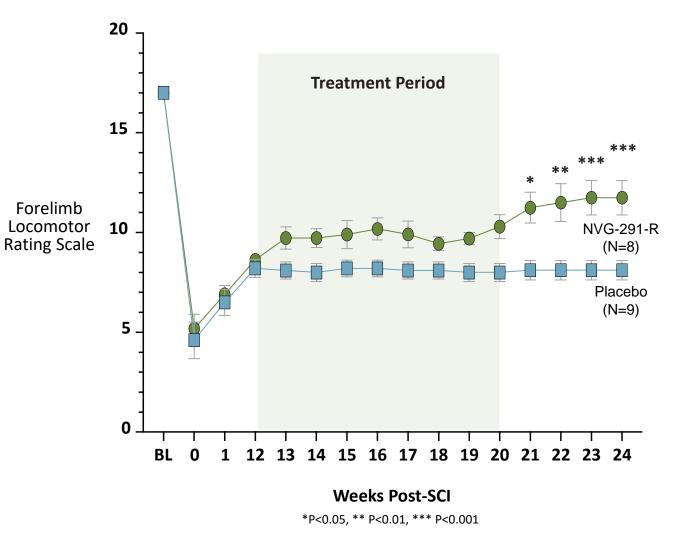
Chronic SCI Preclinical Study

Overview

- C2 lateral hemisection
- 500 µg/day x 8.5 weeks
- Treatment began 12 weeks post-injury

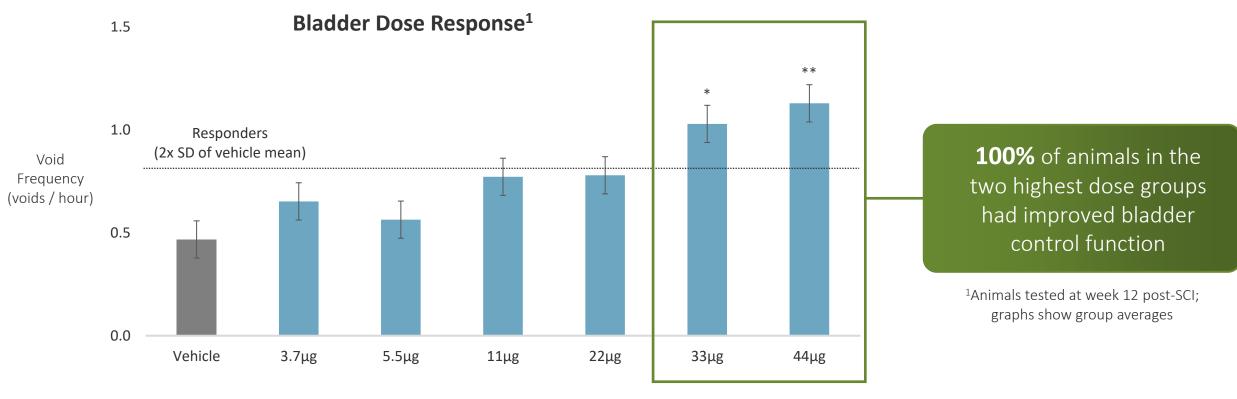
Results

- Significant recovery of forelimb locomotor function
- Functional improvements persist after treatment
- NVG-291-R can promote recovery in chronic stages of SCI



Spinal Cord Injury

Bladder function improved following NVG-291-R treatment in preclinical animal studies



*p <0.05, ** p <0.01, n=5 per dosing group

Bladder function is a key quality of life measure in the paralyzed population



NVG-291 Phase 1 Clinical Trial Results

Study Design

Single Dose

- 37 subjects
- 6 dose levels
- Assessed through Day 8

Multiple Dose

- 33 subjects
- 4 dose levels
- Subjects dosed subcutaneously once/day for 14 days
- Assessed through Day 21

Safety Results

- Well tolerated across all doses
 - Maximum tolerated dose (MTD) not reached
- No treatment discontinuations
- No serious/severe adverse events (AE) in NVG-291 group
- Most common AE was injection site related (ISR)
- No clinically significant effects related to NVG-291 treatment across all study parameters



Phase 1b/2a Proof-of-Concept Trial in SCI

Study Design

- 16-week trial (12-wk treatment, 4-wk noninterventional period)
 - Randomized 1:1 to NVG-291 and placebo
 - Once daily subcutaneous injection
 - Exercise over 16 weeks
- Single center, Shirley Ryan AbilityLab (Chicago, IL)
 - Ranked #1 rehabilitation hospital for >30 years
 - Monica Perez, PT, PhD expertise in applying electrophysiology as a tool to monitor motor recovery in humans after SCI
 - Single center decreases variability of electrophysiological assessments, ensures standardized exercise program

Two Cohorts

Chronic SCI

• ~20 individuals (1-10 years post-injury)

Subacute SCI

• ~20 individuals (10-49 days post-injury)



Study Objectives

Co-Primary Endpoints: Quantitative Measure of Motor Connectivity

- Hand muscle group
- Leg muscle group

Secondary Endpoints

- Clinical measures based on performance tests (walking speed, hand function) and neurological assessment
- Electrophysiological measures of electrical connectivity

Exploratory Endpoints

- Autonomic (e.g. bladder function)
- Spasticity (lower extremities)
- Mobility
- Quality of life
- Blood biomarkers



SCI Clinical Advisory Board

James Guest, MD, PhD, FACS	Professor of Neurological Surgery at the University of Miami and The Miami Project to Cure
Steven Kirshblum, MD	Professor and Chair of the Department of Physical Medicine and Rehabilitation at Rutgers New Jersey Medical School Chief Medical Officer for Kessler Institute for Rehabilitation and Kessler Foundation
Brian Kwon, MD, PhD, FRCSC	Professor in the Department of Orthopedics at the University of British Columbia, the Canada Research Chair in Spinal Cord Injury
Linda Jones, PT, PhD	Collaborating Investigator at Spinal Cord Outcomes Partnership Endeavor (SCOPE) Chair of the Research Committee of the American Spinal Injury Association (ASIA)
Daniel Lammertse, MD	Clinical Professor of Physical Medicine and Rehabilitation at the University of Colorado School of Medicine Emeritus Clinical Scientist at Craig Hospital in Englewood Colorado



Board of Directors



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Randall Kaye, MD CMO, Longboard Pharmaceuticals



Adam Rogers, MD Former CEO & Co-Founder, Hemera



Harold Punnett, DMD Co-Founder



Mike Kelly President & CEO, NervGen



John Ruffolo

Founder & Managing Partner, Maverix



Brian Bayley Director, Earlston Investments



Krista McKerracher Former Global Franchise Head, Novartis



Craig Thompson CEO, Cerevance



Share and Capital Structure

Exchange/Market: Ticker	TSX: NGEN.V	OTCQB: NGENF	
Recent Share Price (June 7, 2024)	CA \$2.00 US \$1.46		
Shares Outstanding	70.0 million		
Fully Diluted	92.1 million (~12.0million options & retention securities, ~10.1 million warrants*)		
Insider Ownership	23.2%		
Cash & Cash Equivalents (March 31, 2024)	CA \$30.3 million	US \$22.4 million	



Key Value Drivers for 2024

Phase 1b/2a clinical trial recruitment progress

Preclinical data in multiple indications

T YE

Next generation compound progress

Phase 1b/2a Proof-of-concept readout in chronic SCI





Enabling the Nervous System to Repair Itself

www.nervgen.com

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