

Statements

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Forward-looking statements: Certain statements in this document about the Company's current and future plans, expectations and intentions, results, levels of activity, performance, goals or achievements, or any other future events or developments constitute forwardlooking statements, including, without limitation, statements regarding advancement of NVG-291 toward clinical development, the timing of human trials and regulatory approval, the potential efficacy of the Company's products and technology, and the potential to identify, evaluate and develop other drug candidates. The words "may", "would", "should", "could", "expect", "plan", "intend", "trend", "indication", "anticipate", "believe", "estimate", "predict", "likely" or "potential", or the negative or other variations of these words or other comparable words or phrases, are intended to identify forward-looking statements. Forward-looking statements are based on estimates and assumptions made by the Company in light of management's experience and perception of historical trends, current conditions and expected future developments, as well as other factors that the Company believes are appropriate and reasonable in the circumstances. Many factors could cause the Company's actual results, level of activity, performance or achievements or future events or developments to differ materially from those expressed or implied by the forward-looking statements, including those described in the "Risk Factors" section of the Company's Prospectus, financial statements and Management Discussion and Analysis which can be found on SEDAR.com. All clinical development plans are subject to additional funding. Readers should not place undue reliance on forward-looking statements made in this document. Furthermore, unless otherwise stated, the forward-looking statements contained in this document are made as of the date of this document, and the Company has no intention and undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable law. The forward-looking statements contained in this document are expressly qualified by this cautionary statement.



NervGen Pharma: Restoring Life's Potential

Focused on innovative solutions for the treatment of nerve damage caused by trauma and disease

The central and peripheral nervous systems are responsible for key functions throughout the body

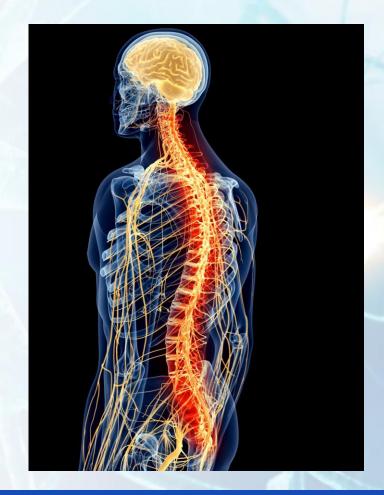
- Movement
- Thought
- Sensory
- Heartbeat
- Respiration





Treating Nerve Damage is an Urgent Medical Need

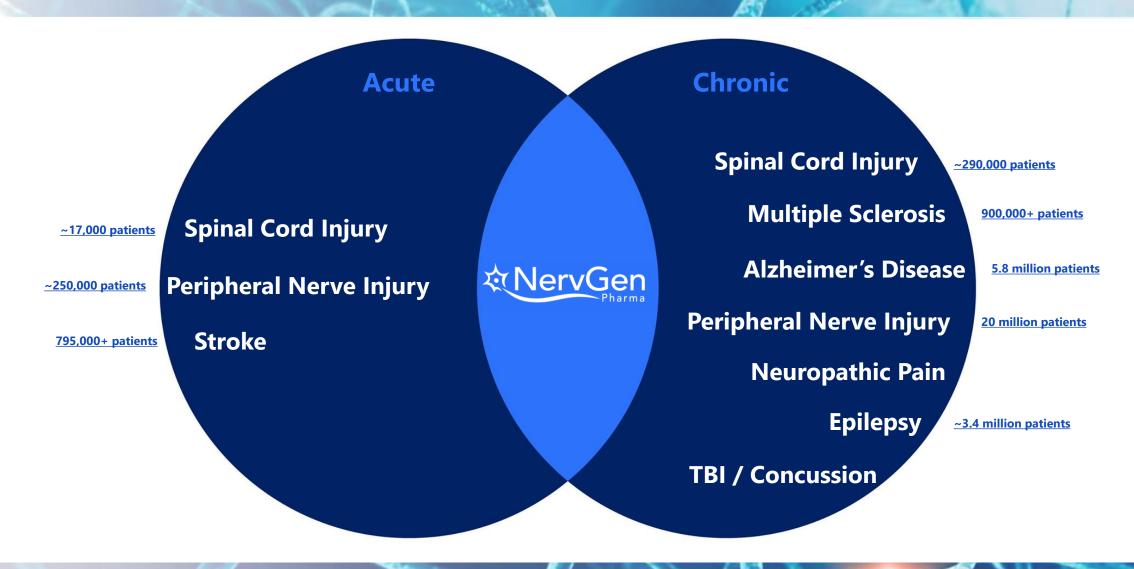
- No drugs approved for remyelination or nerve regeneration
- Surgical intervention has limited uses and inconsistent outcomes
- Significant medical costs and quality of life impacts
 - Numbness / loss of sensation
 - Chronic & debilitating pain
 - Partial loss of movement
 - Incontinence
 - Paralysis



Patients with nerve damage have limited treatment options



Multiple Indications with Unmet Needs – U.S. Cases





Leveraging Core Discoveries by a Neuroscience Key Opinion Leader

The Glial Scar Lock^{1,2} How the Lock Works³ The Key to the Lock⁴ Glial scars form at the site of injury A receptor on the neuron, protein Identified peptides (ISP) that targets tyrosine phosphatase sigma ("PTP σ "), PTPσ receptor Scars contain CSPG* that traps binds to CSPG regenerating nerves Relieves inhibition to nerve growth Binding prevents the nerve from moving Primary impediment to nerve Promotes nervous system recovery and through the scar and regenerating functional improvement regeneration *chondroitin sulfate proteoglycan 2.5um ISI **Injured Spinal Cord** PTP_σ receptor

30+ years of spinal cord injury and regeneration research by Dr. Jerry Silver and his lab at Case Western Reserve University



Silver J., et al Nature Review Neuroscience 2004 5, 146

² Tom, V. J et al J Neuroscience 2004 24 6531

³ Shen Y. et al Science 2009 Oct 23:326(5952):592-6

⁴Lang, B. T. et al. Nature 2015 Feb 19:518(7539):404-8

2015 Compelling Preclinical Data in Spinal Cord Injury

Rodents with severe spinal cord contusion to model severe human injury

Systemic, subcutaneous administration

BBB Scale

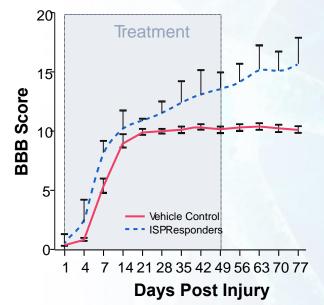
≤8 = limited movement

10 = occasional walking

12 = occasional coordination

13 = frequent coordination

>14 = fine motor movements



Measurement of Locomotion

(7 weeks of daily treatment) 33% response rate at 44 μg daily

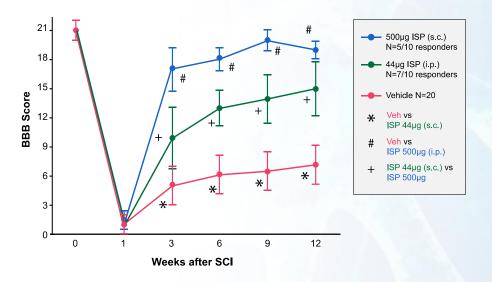
Improvement continues after cessation of therapy

Successfully tested preclinically



2018 Independent Validation of Spinal Cord Injury

Motor function in rats (BBB score) following daily treatment with ISP



Improvement continues after cessation of therapy at week 7 50 – 70% response rate at 500 μg daily

Independent demonstration of meaningful dose-dependent improvement in motor function in a severe injury model



Dramatic Improvement Observed

Rodents with severe spinal cord contusion to model severe human injury

Representative of control group







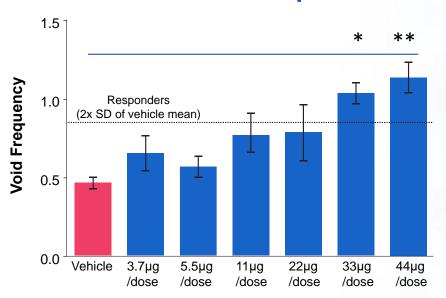
The paralysis is to the hind legs only – focus on the hind legs

Rodents had remarkable motor recovery: consistent coordination, toe clearance, tail held high consistently



Quality of Life Improvements – Bladder Function

Bladder Dose Response



Dose-dependent bladder function improvement in 100% of animals at the two highest dose groups

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

Eliminating catheterization reduces

- urinary tract infections
- hospitalizations
- morbidity
- healthcare costs

Bladder, bowel, and sex functions occur in the same nerve region



Core Preclinical Findings in MS

MS

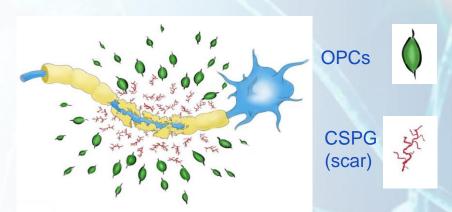
Inflammation causes scarring and protective cells cannot grow through the scar to remyelinate the nerve

Common MS symptoms

- Numbness, tingling
- Pain
- Fatigue, weakness
- Reduced mobility
- Muscle spasms
- Cognitive dysfunction

ISP in MS

- Stimulates production of precursor protective cells (oligodendrocyte progenitors ("OPC"))
- Allows remyelination and regeneration of damaged nerves
- Increases specific proteases that break down the scar (CSPG)

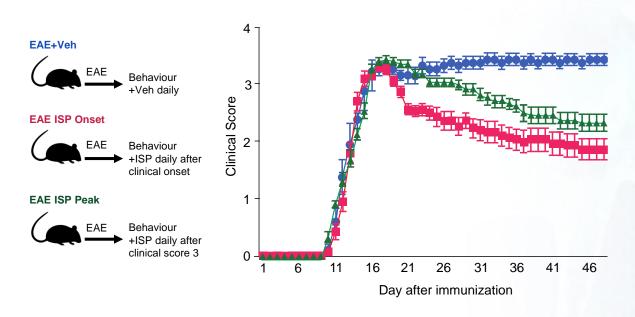


ISP promotes remyelination and enhances functional recovery in an MS rodent model



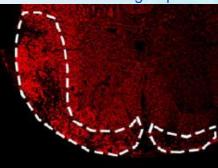
Core Preclinical Findings in MS

Delayed ISP treatment or treatment at symptom onset promotes functional recovery

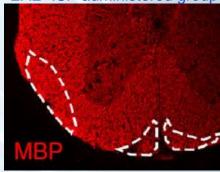


ISP promotes remyelination





EAE+ISP administered group

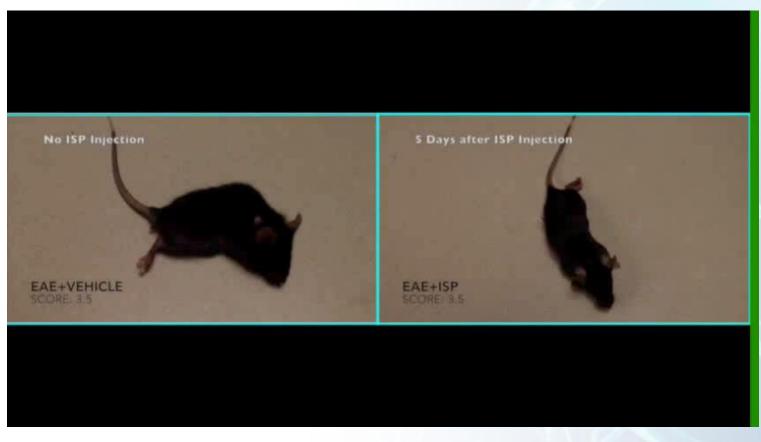


*Myelin basic protein

Remyelination also shown in spinal cord injury models



MS Mouse Model Video





ISP promotes remyelination and enhances functional recovery



Multiple Mechanisms of Action

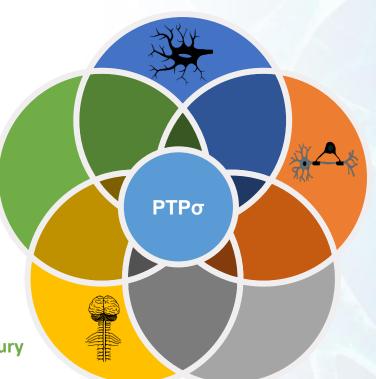
Plasticity

- Spinal cord injury
- Peripheral nerve injury
- Stroke



Regeneration

- Spinal cord injury
- Peripheral nerve injury
- Stroke
- Cardiac arrhythmia





Remyelination

- Multiple sclerosis
- Spinal cord injury



Peer-reviewed Platform Technology

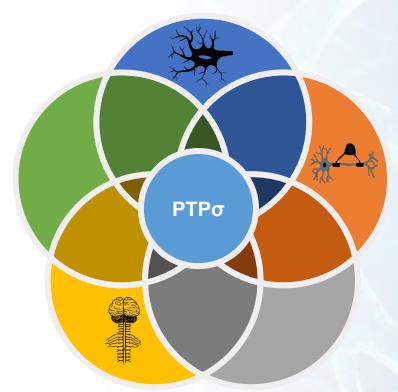


- 1. Lang et al, 2015
- 2. Rink et al, 2018
- 3. Tran et al, 2018
- 4. Ham et al, 2019
- 5. Sakamoto, 2019



Regeneration

- 1. Li et al, 2015
- 2. Yao et al, 2018





Remyelination

- 1. Dyck et al, 2018 (a)
- 2. Luo, et al, 2018
- 3. Niknam et al, 2019



NervGen's Indication Focus

Acute

Spinal Cord Injury

- ~17,000 new cases annually in the U.S.
- ~290,000 permanently paralyzed people living in the U.S.
- Direct medical costs of \$1 million per case in the first year alone



Chronic

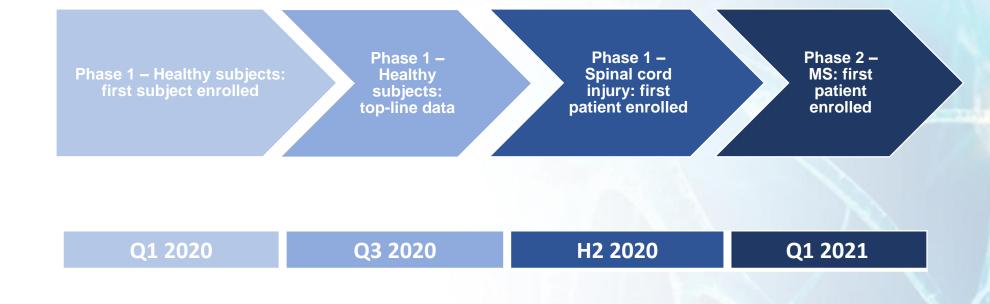
Multiple Sclerosis

- 900,000+ people living with MS in the U.S.
- >2 million people living with MS globally
- Total costs for all people with MS in the U.S. is ~\$28 billion annually

Millions of patients representing billions of dollars in healthcare expenditures



NVG-291 Development Plan



Multiple near-term clinical milestones



Already Manufacturing at Clinical Scale

- Manufacturing using well established, scalable peptide chemical synthetic techniques
- Multiple batches of NVG-291 successfully manufactured at contract facility
- Multiple cGMP contract manufacturers available to perform synthesis



Able to quickly and cost-effectively manufacture NVG-291 to support advancing clinical program



Strong and Growing IP Portfolio – Multiple Patents Issued

Filing additional composition of matter and method of use in patents

Composition of Matter

- Claims cover
 - inhibitors of PTPσ, including ISP, NVG-291 and other analogs
 - exclusive world-wide rights to use the technology to research, develop, make, have made, use, dispose, offer to dispose and import licensed products for all indications

Method of Use

- Claims cover
 - inhibiting PTPσ activity, signaling and function
 - treating neural injury, including peripheral nerve and spinal cord injury
 - treating heart disease and injury
 - treating root avulsion

Long remaining patent life with current estate providing protection in 2038



Experienced Management Team

 20+ years of industry experience, 15+ in corporate and BD roles at both private and publicly listed companies 		
Global project leader for two Phase III drugs		
Led campaign that resulted in sale of YM BioSciences to Gilead for US\$510M		
20+ years in strategic and operational planning, corporate finance, M&As, partnering, accounting, audit, HR and project management		
 CFO positions in three Deloitte Technology Fast 50[™] companies 		
Managed over 25 clinical trials including two Phase 3 trials		
 Experience working at and managing multiple large clinical contract research organizations 		
 15+ years of manufacturing experience with small molecule to antibody-based drug 		
Strong knowledge of Good Manufacturing Practice and extensive experience working with contract development manufacturing organizations		



Accomplished Board

Bill Radvak, BASc Co-Founder & Executive Chairman	 30+ years as Founder, CEO and Director of startup companies Founder & CEO of Response Biomedical, a publicly listed medical device company; grew Response Biomedical from inception to a 100+ employee sales and manufacturing company
Ernest Wong, PhD, MBA President & CEO	 20+ years of industry experience, 15+ in corporate and BD roles at both private and publicly listed companies
	Global project leader for two Phase III drugs
	Led campaign that resulted in sale of YM BioSciences to Gilead for US\$510M
Mike Abrams, PhD	Successfully transformed scientific discoveries into commercially successful products
Director	 Founder, President & CEO of AnorMED for 10 years prior to its acquisition by Genzyme for \$580M
Brian Bayley, MBA	30+ years of public issuer experience and has transaction experience of over \$2B
Director	Currently, the Executive Chairman of Earlston Investments, a private merchant bank
Harold Punnett, DMD Co-Founder & Director	Angel investor with a passion for developing solutions for spinal cord injuries and nerve damage
	Plays active role in early finance and partnering relationships for early-stage companies



Scientific and Strategic Business Advisors

Jerry Silver, PhD	Professor of Neurosciences at Case Western Reserve University's School of Medicine
Co-Inventor and Scientific Advisor	Credited with more than 180 papers and numerous awards
	Continues to conduct studies with other institutions and partners to advance ISP
Brad Lang, PhD	Worked with Dr. Silver to develop and characterize ISP
Co-Investor and Scientific Advisor	Serves as Executive-in-Residence at Bio-Enterprise in Cleveland, OH supporting biotech companies
Brian Kwon, MD, PhD, FRCSC Scientific Advisor	Canada Research Chair in spinal cord injury and ICORD Associate Director of Clinical Research
	Spine Surgeon, Vancouver Spine Program, Vancouver General Hospital
	Professor, Department of Orthopedics, Faculty of Medicine, University of British Columbia
Marta Hamilton, PhD Scientific Advisor	 Veteran in drug development with expertise in pharmacokinetics, biomarkers, preclinical and clinical study design with experience with multiple IND and new drug applications
	 Leadership and technical positions at Eli Lilly, Amgen, NeXstar, and Gilead and most recently VP, Preclinical Development and Clinical Pharmacology at OSI
Brian McAlister, BS Co-Founder and Business Advisor	Prolific startup specialist with 30 years of expertise
	 Assisted 25+ early-stage biotechnology, enterprise software, and natural resource companies, including Novadigm, ManagelQ, and CohBar
Paul Brennan, BSc, MSc	Over 30 years of biotechnology and pharmaceutical business development and product planning experience
Business and Strategy Advisor	Comprehensive list of transactions from M&A to licensing to corporate restructuring



Share Capital

Exchange/Market: Ticker	TSX-V: NGEN	OTCQX: NGENF	
Recent Share Price (October 25, 2019)	CA\$1.37	US\$1.04	
Shares Outstanding	27.9 million (11.1 million remain in escrow)		
Fully Diluted	30.5 million 2.6 million options including 700,000 held by IPO agents		
Market Capitalization (October 25, 2019)	CA\$38.9 million	US\$28.9 million	
52-week Range	CA\$1.22 - CA\$2.10	US\$0.649 – US\$1.525	
Insider Ownership	22%		
Cash & Cash Equivalents (June 30, 2019)	CA\$8.2 million	US\$6.2 million	



Investment Highlights

Addressing a significant unmet medical need for treatment of nerve damage due to trauma/disease

Compelling technology platform with data published in multiple peer-reviewed journals

Advancing spinal cord injury and multiple sclerosis indications towards the clinic

Rapidly advancing towards clinical programs with near-term milestones

Strong and growing IP portfolio with significant remaining patent life

Life science-savvy board and management team & scientific advisors, including co-inventors



