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Certain statements contained in this presentation, other than statements of fact that are independently verifiable at the date hereof, may constitute forward-looking statements, including: WEX Pharmaceuticals Inc.'s (WEX) pathway to registration and commercialization; Wex's ability to be the first to address the market; the size of the market; the existence of a large and unmet need for new non-opioid neuropathic and nociceptive agent; the demand and unmet need for a non-addictive analgesic to substitute opioid-based pain therapies; the safety profile of Halneuron®; the other potential clinical uses of Halneuron®; future trial results; the ability to produce at scale; the expected time of trial results; and the anticipate additional patents related to manufacture, formulation, delivery and use of Halneuron®. Words such as "anticipate," "will," "believe," "estimate," "expect," "intend," "target," "plan," "goals," "objectives," "may" and other similar words and expressions, identify forward-looking statements. Such statements, based as they are on the current expectations of management of WEX, inherently involve numerous risks and uncertainties, known and unknown, many of which are beyond WEX's control.

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Halneuron® is an investigational treatment and has not been approved by the US Food and Drug Administration or Health Canada or any other regulatory agencies. Halneuron® has not yet been shown to be safe and effective.

### WEX Pharmaceuticals Inc. overview



Clinical-stage
pharmaceutical company
developing Halneuron®, a
non-opioid pain
medication, to manage
moderate to severe pain

- WEX Pharmaceuticals ("WEX"), headquartered in Canada, is a pharmaceutical company focused on the development of Halneuron® for management of moderate to severe pain
- WEX is a wholly owned subsidiary of CK Life Sciences Int'l., (Holdings) Inc., a publicly listed company in Hong Kong (SEHK:0775)
- Key assets include patents on Halneuron® for Chemotherapy-Induced Neuropathic Pain and General Pain and production methods of Halneuron®

## Halneuron® - A novel non-opioid pain therapy



- WEX Pharmaceuticals Inc. ("WEX") is developing a non-opioid analgesic, Halneuron®
- Tested in over 700 people. Latest clinical trials have demonstrated promising clinical results and robust safety



Halneuron®: a non-opioid painkiller for moderate to severe pain



**No evidence of addiction or withdrawal symptoms**, unlike opioids



Lead clinical uses in

Chemotherapy-Induced

Neuropathic Pain and CancerRelated Pain



Demonstrated clinically meaningful (>30%) pain reduction in majority of treated patients in Phase 3 trial



Some patients experienced pain reduction for more than **30 days with 1 cycle** of treatment



Some patients experienced **30% reduction in opioid use** with 1 cycle of treatment



Clear pathway to registration and commercialization with patents and proprietary trade secrets



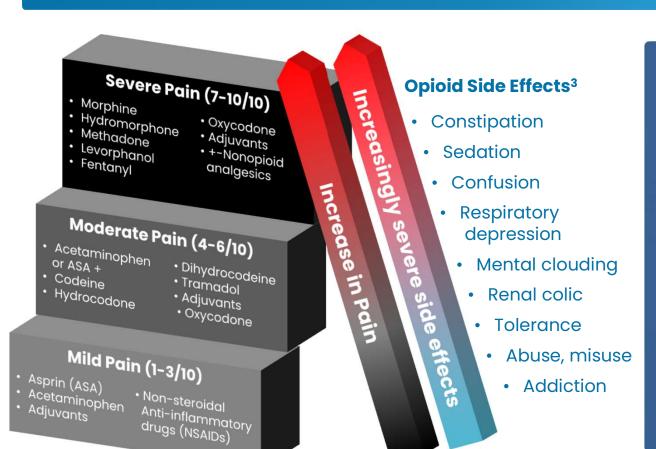
Opportunity to be the first to address a **multi-billion dollar market** 

## Pain therapy today: methods and challenges



- Pain treatment today is directed by side effects and tolerability
- Opioids continue to be the gold standard<sup>1</sup>, but come with many issues and challenges

The World Health Organization Analgesic Ladder<sup>2</sup> and associated side effects



There is a large and unmet need for new non-opioid neuropathic and nociceptive agents due to side effects and abuse of current therapies.

- 1. Li JX. Combining opioids and non-opioids for pain management: Current status. Neuropharmacology. 2019 Nov 1;158:107619.
- 2. Harris DG. Management of pain in advanced disease. Br Med Bull. 2014 Jun;110(1):117-28.
- 3. Benyamin R, Trescot AM, Datta S, Buenaventura R, Adlaka R, Sehgal N, Glaser SE, Vallejo R. Opioid complications and side effects. Pain Physician. 2008 Mar;11(2 Suppl):S105-20.

### Vicious cycle with opioid pain therapies





# Opioid-based painkillers are today's gold standard to manage moderate to severe pain

While effective at managing pain, opioids have numerous concerning issues:

- Highly addictive, a recognized public health crisis
- Severe side effects
- Withdrawal symptoms prevent reducing dosage
- Addiction, withdrawal symptoms, and side effects worsens as potency increases to manage long-term and chronic pain conditions
- Over 53,000 opioid deaths in the past 12 months in the US alone<sup>1</sup>
- ~58 million people used opioids and ~35.6 million people suffered from drug use disorders worldwide in 2018<sup>2</sup>.

There is an urgent need for a non-addictive analgesic to substitute opioid-based pain therapies.

- 1. CDC https://www.cdc.gov/nchs/nvss/vsrr/drug-overdose-data.htm
- 2. WHO https://www.who.int/news-room/fact-sheets/detail/opioid-overdose

### Halneuron® - Fulfils the requirements of an ideal analgesic





No evidence of addiction



No evidence of euphoria, or "high"



No evidence of tolerance build with repeated use



Evidence of long-lasting pain relief



No evidence of withdrawal symptoms



Cost effective, can be produced at scale



Acceptable safety profile with only mild and temporary side effects

Based on promising research and results to-date, Halneuron<sup>®</sup> is well-positioned to be a credible alternative to manage pain.

### What is Halneuron®?



- Halneuron® is Tetrodotoxin (TTX), a sodium channel blocker
- TTX works as a painkiller by blocking  $NA_{V}$  1.7, a sodium channel responsible for pain
- TTX binding and blocking NA<sub>V</sub> 1.7 are well understood<sup>1,2</sup>

### How does Tetrodotoxin (TTX) work? Spinal cord Nerve endings Pain signals are nerve impulses that travel along a Sensory neuron Dorsal root ganglion nerve as electrical signals generated by the movement Myelin sheath of sodium ions through ion channels on the surface of nerve cells. TTX binds to and blocks sodium ion channels on the Spinal vertebra Skin nerve cell surface, reducing the movement of sodium +Na + Na ions, thereby reducing the conduction of pain signals. PAIN SIGNAL Sodium channel Node of Ranvier

- 1. Fozzard HA, Lipkind GM. The tetrodotoxin binding site is within the outer vestibule of the sodium channel. Mar Drugs. 2010 Feb 1;8(2):219-34.
- 2. Nieto FR, Cobos EJ, Tejada MÁ, Sánchez-Fernández C, González-Cano R, Cendán CM. Tetrodotoxin (TTX) as a therapeutic agent for pain. Mar Drugs. 2012 Feb;10(2):281-305.

### Na<sub>v</sub> 1.7 is directly associated with the feeling of pain



- The sodium channel Na<sub>V</sub> 1.7 is responsible for the perception of pain. This is well supported in peer-reviewed research over the past decades<sup>1,2,3</sup>
- Two health conditions associated with abnormal expression of Na<sub>V</sub> 1.7 and their effects on the perception of pain is well-documented



## Congenital Insensitivity to Pain Syndrome:

- Rare genetic mutation that causes an absence of a Na<sub>v</sub> 1.7 sodium channel
- Condition that prevents the ability to perceive pain



### Hypersensitivity to Pain

### Erythromelalgia: Severe Pain Syndrome

- Hypersensitivity to pain
- Mutations in the sodium channel Na<sub>v</sub> 1.7 produce pain syndromes
- Characterized by feeling intense, burning pain primarily affecting one's feet and hands

No Pain

Normal Pain

Levels

Extreme Pain

Authoritative research and known health conditions related to Na<sub>v</sub>1.7 provide strong evidence that blocking Na<sub>v</sub>1.7 is a critical pathway to blocking and alleviating pain.

- 1. Dib-Hajj SD, Yang Y, Black JA, Waxman SG. The Na(V)1.7 sodium channel: from molecule to man. Nat Rev Neurosci. 2013 Jan;14(1):49-62.
- 2. Han C, Rush AM, Dib-Hajj SD, Li S, Xu Z, Wang Y, Tyrrell L, Wang X, Yang Y, Waxman SG. Sporadic onset of erythermalgia: a gain-of-function mutation in Nav1.7. Ann Neurol. 2006 Mar;59(3):553-8.
- 3. Faber CG, Hoeijmakers JG, Ahn HS, Cheng X, Han C, Choi JS, Estacion M, Lauria G, Vanhoutte EK, Gerrits MM, Dib-Hajj S, Drenth JP, Waxman SG, Merkies IS. Gain of function Nav1.7 mutations in idiopathic small fiber neuropathy. Ann Neurol. 2012 Jan;71(1):26-39.

### Latest clinical trials investigating Halneuron®



- Studies using Halneuron® for managing pain have shown encouraging clinical results
- Lead indications for Halneuron® include two recent clinical trials:
  - Phase III Cancer Related Pain ("CRP")
  - Phase II Chemotherapy-Induced Neuropathic Pain ("CINP"). Currently there are no approved drugs for managing CINP.

### Phase III Cancer Related Pain

- Tested for efficacy and safety of TTX for moderate to severe inadequately controlled CRP
- Randomized, double-blind, placebocontrolled, parallel-design, multicenter, trial
- Patients enrolled: 165
- Statistically significant based on pain reduction endpoint
- Some patients demonstrated pain relief for more than 30 days post injection period
- TTX showed an acceptable safety profile in cancer patients.

# Phase II Chemotherapy-Induced Neuropathic Pain

- Primarily a dose finding trial but also evaluating potential efficacy and safety of TTX in patients with CINP
- Randomized, double-blind, dosefinding, placebo-controlled, multicenter study
- Patients enrolled: 125

- Optimal therapeutic dose to treat CINP established
- TTX showed an acceptable safety profile in CINP patients.

### Phase III CRP: Clinical trial design



- All patients were on standard of care<sup>3</sup> for pain management, half receiving Placebo and the other half receiving TTX
- TTX treatment involved 2 injections a day for 4 days (8 doses total)
- All patients recorded their pain score in two distinct periods with extended follow up:
  - Pain response first measured from days 5 to 8 post injection (Early Post-Injection Period)
  - Pain response also measured from days 9 to 15 post injection (Late Post-Injection Period)
  - Follow up conducted after late post-injection period to measure any prolonged effects from TTX on pain

### Phase III CRP - Patient Population

|                                      | TTX <sup>1</sup> | Placebo <sup>2</sup> | Tota | al   |
|--------------------------------------|------------------|----------------------|------|------|
| # of Patients Enrolled               | 77               | 88                   | 165  | 100% |
| # of Patients Randomized and Treated | 65               | 84                   | 149  | 90%  |
| Patients Completed Study             | 64               | 83                   | 147  | 89%  |
| Patients Discontinued Study          | 13               | 5                    | 18   | 11%  |
| Patients With Moderate Pain          | 9                | 12                   | 21   | 13%  |
| Patients With Severe Pain            | 68               | 76                   | 144  | 87%  |
| Average Pain Score Before Treatment  | 7.6              | 7.6                  |      |      |

- 1. TTX + Standard of care for pain management.
- 2. Placebo + Standard of care for pain management.
- Standard of care for pain management is defined as optimized opioid and co-analgesic therapy specific to each patient.

### Phase III CRP: Pain measurement outcome



- There was a statistically significant improvement in pain outcome for TTX
  - 51% of patients receiving TTX experienced a reduction in pain; vs
  - 35% of patients in the placebo group recorded a reduction in pain

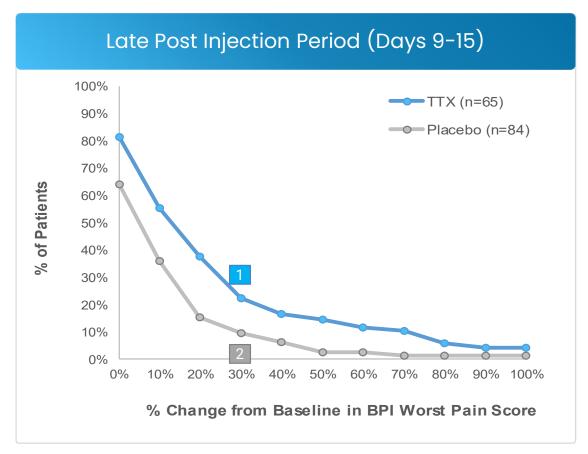
| Pain Outcome – Co-Primary Endpoint<br>(Pain Intensity Difference and/or Opioid Use) |            |            |      |                  |            |
|---|------------|------------|------|------------------|------------|
|   | TT)        | <b>(</b> 1 | Plac | ebo <sup>2</sup> | Difference |
| Responder <sup>3</sup>  | 33         | 51%        | 29   | 35%              | 16%        |
| Non-Responder   | 32         | 49%        | 55   | 65%              |            |
| Total   | 65         |            | 84   |                  | -          |
| 95% C. I.   | 0.4 - 32.1 |            |      |                  |            |
| p-value   | 0.046      |            |      |                  |            |

- 1. TTX + Standard of care for pain management.
- 2. Placebo + Standard of care for pain management.
- 3. A "Responder" is defined as a patient who has a mean reduction in pain intensity of ≥ 30%; or a decrease of at least 50% of opioid use.

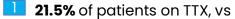
### Phase III CRP: TTX reduced worst pain



- There were more patients that demonstrated at least 30% pain reduction in the TTX treatment group over the Placebo group
- Furthermore, using any percentage of pain relief, TTX always demonstrated greater pain reduction over Placebo.



% of patients in group showing ≥30% reduction in BPI<sup>2</sup> Worst Pain Score in LPIP:

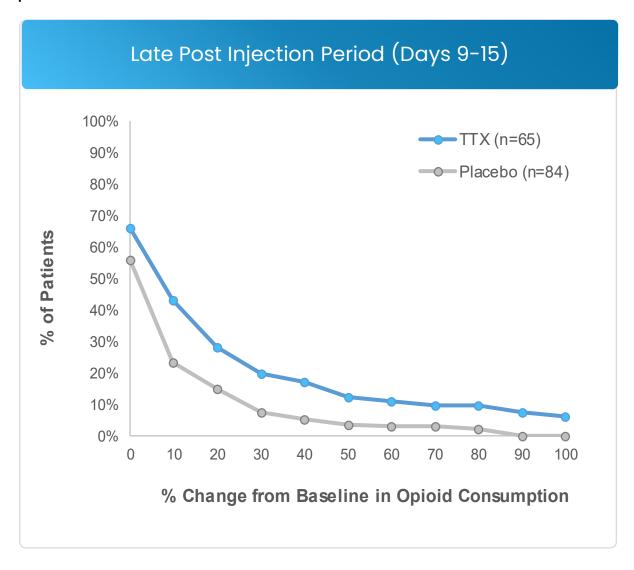


2 8.3% of patients on Placebo

### Phase III CRP: TTX reduced opioid consumption



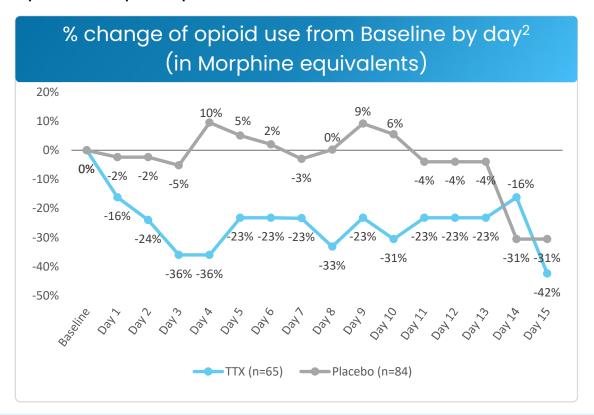
 Using any percentage in reduction of opioid consumption, there were more patients in the TTX group who reduced their opioid intake during the clinical trial than in the Placebo group.



### Phase III CRP: TTX reduced daily opioid use<sup>1</sup>



- Patients in the TTX group demonstrated an immediate and consistent reduction in opioid use
- Encouraging evidence that patients on TTX experienced sufficient pain reduction to reduce their daily use of opioid pain medication



- Placebo patients had no meaningful reduction in daily opioid use for most of study period
- TTX patients demonstrated meaningful and sustained reduction in daily opioid consumption

#### Note:

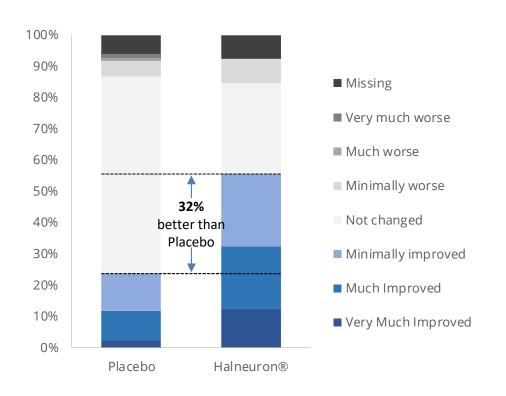
2. In the "Intent to Treat" population

<sup>1.</sup> Opioid use is defined as the average dose, converted to morphine equivalents, as reported on the patient diary, during each treatment period.

## Phase III CRP: Global Impression of Change



Patients in the TTX group reported an improvement in pain compared to the placebo group



|                    | Halneuron <sup>® 1</sup> | Placebo <sup>2</sup> | No. of times<br>better than<br>Placebo |
|--------------------|--------------------------|----------------------|--|
| Very Much Improved | 12%                      | 2%                   | 6X                                     |
| Much Improved      | 20%                      | 10%                  | 2X                                     |
| Minimally improved | 23%                      | 12%                  | 2X                                     |
| Total Improved     | 55%                      | 24%                  | 2X                                     |
| Not changed        | 29%                      | 63%                  |  |
| Minimally worse    | 8%                       | 5%                   |  |
| Much worse         | 0%                       | 1%                   |  |
| Very much worse    | 0%                       | 1%                   |  |
| Missing            | 8%                       | 6%                   |  |

- 55% of patients on TTX reported improvement vs 24% of patients on placebo
- 70% of patients on placebo reported no change or worse pain vs 37% of patients on TTX

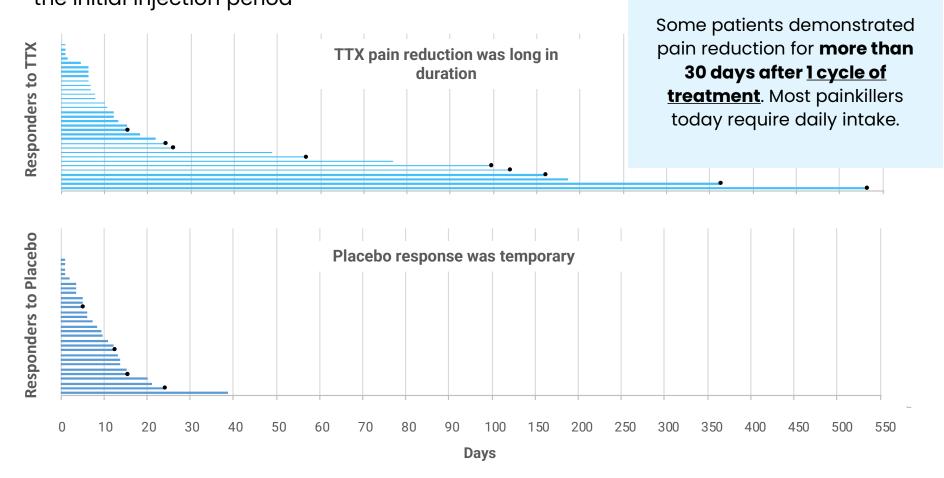
- 1. TTX + Standard of care for pain management.
- 2. Placebo + Standard of care for pain management.
- . Standard of care for pain management is defined as optimized opioid and co-analgesic therapy specific to each patient.

## Phase III CRP: Long duration of pain relief



- After a single cycle of treatment, the Responders<sup>1</sup> in the TTX group showed a prolonged duration of pain relief that was substantially longer than the Responders<sup>1</sup> in the Placebo group
- Average number of days of pain response is 57.7 days vs 10.5 days for the TTX vs Placebo groups respectively

 9 patients (27%) in the TTX Responder<sup>1</sup> group had pain relief for 30 days or longer after the initial injection period



- 1. A "Responder" is defined as a patient who had a mean reduction in pain intensity of ≥ 30% or a decrease of at least 50% of opioid use.
- 2. Dots at the end of lines indicated responses still ongoing at the end of the study, so actual duration was likely longer.

### Phase II CINP: Trial summary



- WEX completed a Phase II CINP study with TTX
  - Randomized, double-blind, dose-finding, placebo-controlled, multicenter study of the potential efficacy and safety of TTX in patients with Chemotherapy-Induced Neuropathic Pain (CINP)

### Objective

- Primary objective was to identify up to 2 doses or regimens of TTX for Phase III evaluation
- Secondary objective was to determine the safety and tolerability of multiple doses / regimens of TTX

### Procedures

- Testing period of various doses over 4 days and measurement over 4 weeks
- Total of 125 patients in 5 cohorts (4 groups with different TTX dosing regimens and 1 placebo group)

### Results

- Dosage of 30 μg TTX twice per day (for 4 days) demonstrated highest level of pain reduction vs placebo
- This trial demonstrated an acceptable safety profile in patients with CINP.

| Responder Analyses: 30% reduction in average NPRS score from baseline to any 10 consecutive days |                  |                      |  |
|--|------------------|----------------------|--|
|  | TTX <sup>2</sup> | Placebo <sup>3</sup> |  |
| Yes  | 15 (58%)         | 8 (32%)              |  |
| No   | 11 (42%)         | 17 (68%)             |  |
| P-Value  | 0.027            |                      |  |
| Odds Ratio (vs Placebo)  | 3.9              |                      |  |
| 95% CI for Odds Ratio  | (1.08, 14.09)    |                      |  |

### Phase 2 CINP Clinical trial supports Halneuron® safety



- Most of the Adverse Events (AEs) are mild or moderate in severity<sup>2</sup>
- AEs were short in duration with no intervention needed
- No opioid like AEs
- There were no reported serious drug related
   AEs
- Two subjects discontinued in phase 2 CINP clinical trial because of dizziness

### Ten most frequent Adverse Events<sup>1</sup>

|                    | (30 μg b.i.d. x 4 d) | Placebo        |           |  |
|--------------------|----------------------|----------------|-----------|--|
| Adverse event      | # Subjects (%)       | # Subjects (%) |           |  |
|                    | N=26                 | N=25           | Delta     |  |
| Paraesthesia oral  | 11 (42.3)            | 3 (12.0)       | 8 (30.3)  |  |
| Hypoaesthesia oral | 10 (38.5)            | 3 (12.0)       | 7 (26.5)  |  |
| Headache           | 9 (32.6)             | 5 (20.0)       | 4 (12.6)  |  |
| Dizziness          | 8 (30.8)             | 5 (20.0)       | 3 (10.8)  |  |
| Paraesthesia       | 7 (26.9)             | 6 (24.0)       | 1 (2.9)   |  |
| Nausea             | 6 (23.1)             | 6 (24.0)       | 0 (-0.9)  |  |
| Pain in extremity  | 3 (11.5)             | 2 (8.0)        | 1 (3.5)   |  |
| Dysgeusia          | 3 (11.5)             | 0 (0.0)        | 3 (11.5)  |  |
| Fatigue            | 3 (11.5)             | 4 (16.0)       | -1 (-4.5) |  |
| Oral dysesthesia   | 2 (7.7)              | 0 (0.0)        | 2 (7.7)   |  |

Other clinical trials with patients and healthy volunteers have also demonstrated that Halneuron® has an acceptable safety profile and is well tolerated after multiple doses

- Adverse Events ranked by Preferred Term in TTX-CINP-201
- 2. Also reported in separate clinical trial using a single dose in healthy volunteers, 99.4% of AEs reported were mild or moderate

### Halneuron® has a pipeline of other potential clinical uses



 In addition to treating Chemotherapy-Induced Neuropathic Pain and Cancer Related Pain, Halneuron® can potentially be used to manage other types of pain

Pre-Clinical

Phase I

Phase II

Phase III

Commercialization

HALNEURON® Injectable:

**Chemotherapy-Induced Neuropathic Pain** 

HALNEURON® Injectable: Cancer Related Pain

HALNEURON® **Burn Pain** 

HALNEURON®

Post-operative pain

In the near term, WEX is focused on advancing Halneuron® for managing three types of pain: CINP, Cancer Related Pain, and Burn Pain.

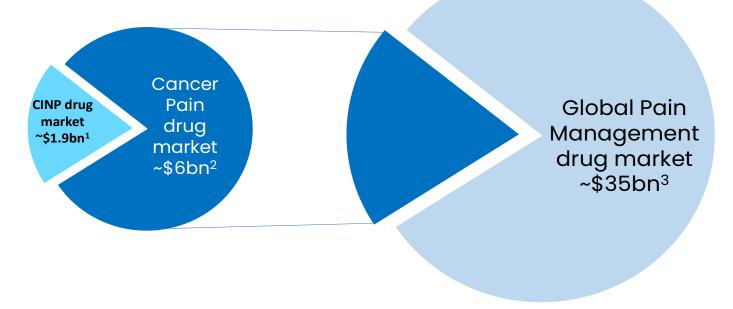
## Halneuron® will address a large market opportunity



- There is no approved therapy for the treatment of CINP
- The market is presently dominated by off-label therapies such as steroids, antidepressants, antiepileptics, opioids and procedural therapies
- ~1.7 million CINP patients in the 7 major markets representing a ~\$1.9 billion market size

### **Pain Management Drug Markets**

~57% and ~45% of the Global Cancer Pain and Global Pain Management drug markets are opioids respectively <sup>2,3</sup>



- 1. Delveinsight December 2018, Chemotherapy-Induced Peripheral Neuropathy, Market insights, Epidemiology and Market Forecast 2018-2027
- 2. Allied Market Research December 2018, Global Cancer Pain Market, Opportunity Analysis and Industry Forecast 2018-2025
- 3. LP Information December 2019, Global Pain Management Drugs Market growth 2019 -2024

## Regulatory status of Halneuron® to treat pain



# Phase IIB CINP (CINP-202)

- Trial launched in 2021 in Korea, Singapore, Taiwan, China, USA and Canada.
- Phase IIB trial is designed to study the efficacy of Halneuron® after a single cycle
- Phase IIB trial will:
  - ✓ Reduce risk and hone the Phase III trial; and
  - ✓ Provide clinical data to accelerate access into Asian geographic markets

### Phase III CINP Regulatory Status

- ✓ Health Canada CINP clinical protocol: Approved
- ✓ Food and Drug
   Administration (FDA)
   Special Protocol
   Assessment (SPA) For
   Phase III trial: Approved
- ✓ European Medicines
   Agency (EMA) scientific
   review: Completed
- ✓ Cardiac safety (TQT study): Completed successfully

### Phase III CRP Regulatory Status

Cancer
 Related Pain
 SPA is in
 development

### Management team and leadership



 WEX's leadership team has a strong track record and experience in the life sciences and other industries:

### Walter Korz, MBA

- · Over 35 years of multi-disciplinary experience in healthcare and life science companies
- Broad drug development background: including clinical development, business development, finance, and regulatory affairs
- VP Drug Development, and President and CEO of Chemokine Therapeutics
- Clinical Development Manager, Angiotech Pharmaceuticals, overseeing systemic therapy programs for rheumatoid arthritis, psoriasis, multiple sclerosis.

### **Abner Yong, CPA, CA**VP Finance

- Over 16 years of corporate finance, accounting, reporting, tax, treasury and transactions experience
- Senior accounting and finance positions held with responsibilities in global treasury, corporate accounting, global budgeting and SOX404 compliance at Methanex Corporation, a NASDAQ/TSX listed (BBB-/Baa3) multinational chemicals company
- Corporate transactions, debt financings and corporate restructurings in a variety of industries across Canada at Ernst & Young Transactions Advisory Services

## **Dr. Meng Zhou** VP Manufacturing

- Over 19 years of pharmaceutical industry experience, focusing on drug delivery, formulation development, analytical chemistry, natural product research, supply manufacturing, and commercialization
- Sr. Director of R&D, SteriMax Inc., specialized in injectable product development
- Directed PDS group in Contract Pharmaceutical Limited, NDA, ANDA and 505(b)2 projects.
- Research scientist, Patheon Inc., Endo Pharmaceuticals, and ALZA Corporation
- PhD in Pharmaceutical Science, University of Georgia (2001); MS in Technology Management,
   Steven Institute of Technology, BS in Medicinal Chemistry from Beijing Medical University

## Andrew Buckland CFO (Polynoma LLC)

- Over 15 years of experience as most senior financial officer of US public and pre-IPO life sciences companies
- · Diverse background in international business and experienced financial officer
- CFO, PURE Bioscience, Inc., grew from the OTC Bulletin Board to the NASDAQ Stock Exchange
- · VP of Finance, Cardionet, Inc.
- CFO, Advanced Tissue Sciences, Inc., NASDAQ-listed public biotechnology company
- Senior accounting and finance management positions at Bristol-Myers Squibb.

## Halneuron® - A novel non-opioid pain therapy



- ✓ Halneuron®: non-opioid pain therapeutic
  - Highly differentiated by mechanism of action and avoidance of opioid associated side effects
- Lead indications: Chemotherapy-Induced Neuropathic Pain (CINP) and Cancer-Related Pain (CRP)
  - Currently there is no treatment specifically approved for Chemotherapy-Induced Neuropathic Pain
  - CINP and CRP markets are expected to be ~\$1.9 billion¹ in the 7 major markets and ~\$6 billion² globally per year respectively
- Validated Mechanism: Pain blocking process well-validated by decades of scientific research
  - Latest trials on patients with CRP and CINP further validate academic research
- Clear Regulatory Path: Phase III Special Protocol Assessment approved by FDA and Health Canada, clearing all hurdles for Phase III trial
  - Clear pathway to commercialization with established patents and manufacturing process
- Experienced Leadership: Track record of developing compounds from clinic to market

- 1. Delveinsight December 2018, Chemotherapy-Induced Peripheral Neuropathy, Market insights, Epidemiology and Market Forecast 2018-2027
- 2. Allied Market Research December 2018, Global Cancer Pain Market, Opportunity Analysis and Industry Forecast 2018-2025

