# DEVONIAN HEALTH GROUP

TSXv-GSD | OTCQB-DVHGF





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Such statements, based as they are on the current expectations of management, inherently involve numerous import ant risks, uncertainties and assumptions, known and unknown, many of which are beyond the control of DEVONIAN. Certain statements in this Presentation are forward-looking statements, which may include, but are not limited to statements with respect to: the potential of Thykamine TM to successfully treat atopic dermatitis ("AD"), Radiodermatitis ("RD"), Hand and Foot Syndrome ("HFS") associated to chemotherapy and other autoimmune disorders and benefit such patients; DEVONIAN's expectations related to its preclinical studies and clinical trials, including the design and results of its Phase 2a clinical trial in mild-to-moderate ulcerative colitis patients of its enema formulation of Thykamine TM, as well as the timing of initiation of its Phase 3 clinical trial of its twice-daily cream

formulation of Thykamine™ in AD and its Phase 2 clinical trial of its twice-a-day formulation of Thykamine™ in RD and HFS; the timing and outcome of interactions with regulatory agencies, the potential activity and tolerability profile, selectivity, potency and other characteristics of Thykamine TM, including as compared to other competitor candidates; the commercial potential of Thykamine TM, including with respect to patient population, pricing and labeling; DEVONIAN's financial position; and the potential applicability of Thykamine TM to treat other disorders. Risk factors that may affect DEVONIAN's future results include but are not limited to: the benefits and impact on label of its enrichment strategy; estimates and projections regarding the size and opportunity of the addressable AD, RD and HFS markets for Thykamine™; the ability to expand and develop its project pipeline; the ability to obtain adequate financing; the ability of DEVONIAN to maintain its rights to intellectual property and obtain adequate protection of future products through such intellectual property; the impact of general economic conditions; general conditions in the pharmaceutical industry; plans and prospects, including to the initiation and completion of clinical trials in a timely manner or at all: changes in the regulatory environment in the jurisdictions in which DEVONIAN does business; supply chain impacts; stock market volatility; fluctuations in costs; changes to the competitive environment due to consolidation; achievement of forecasted burn rate; achievement of forecasted preclinical study and clinical trial milestones; reliance on third parties to conduct preclinical studies and clinical trials for Thykamine TM; and that actual results may differ from topline results once the final and quality-controlled verification of data and analyses has been completed. In addition, the length of DEVONIAN's product candidate's development process and its market size and commercial value are dependent upon a number of factors.

Moreover, DEVONIAN's growth and future prospects are mainly dependent on the successful development, patient tolerability, regulatory approval, commercialization and market acceptance of its product candidate Thykamine™ and other products. Consequently, actual future results and events may differ materially from the anticipated results and events expressed in the forward-looking statements. Although DEVONIAN believes that expectations represented by forward-looking statements are reasonable, there can be no assurance that such expectations will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance, if any, on any forward-looking statements included in this Presentation. The forward-looking statements contained in this Presentation are expressly qualified by this cautionary statement. The forward-looking statements contained herein are made as of the date of this Presentation, and DEVONIAN disclaims any obligation and disavows any intention to update publicly or revise such forward-looking statements, whether as a result of any new information, future event, results, circumstances or otherwise, except where required by applicable legislation or regulation.

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### **Corporate Snapshot**

### **Clinical Stage Biopharmaceutical Company**

1

**Unique**, multi-use platform technology with multiple mechanisms of action: **Pipeline within a product** 

2

**cGMP** manufacturing site

3

Pipeline addressing large unmet medical needs in **Inflammatory/ Autoimmune Diseases** 

4

**Thykamine**<sup>™</sup>, corporate lead program, with compelling phase 2 data in Adult patients with Mild-to-Moderate Atopic Dermatitis (**Eczema**).

Ready for Phase 2/3 in Pediatric patients

5

#### Multiple Clinical milestones expected in 2025-2026

- Top-line results phase2/3 clinical trial in pediatric patient population with Mild-to-Moderate Eczema
- **Top-line results pivotal study** in prevention of radiodermatitis associated with radiotherapy
- **Top-line results phase 2 clinical trial** in Hand and Foot syndrome associated to chemotherapy

6

#### **Revenue Generating division – Altius Healthcare**

- Current positive EBITDA run rate for the subsidiary
- Canadian distribution of licensed drugs

# **Experienced Leadership**

Luc Gregoire CPA, CA
President & CEO





ONE DROP









Colette Laurin CPA, CA





Dr. André P. Boulet, PhD Chief Scientific Officer







Sipar, LP

Pierre Montanaro President, Altius

Healthcare Inc.

Hoechst
Hoechst Marion Roussel
Das Pharma-Unternehmen von Hoechst

Dr. Daniel Bouthillier, PhD

**VP Research** 











### **Board of Directors**

### **Executives with extensive pharma and public company experience**

**André Boulet** Founder & Chairman







Sipar, LP

Luc Grégoire CPA, CA President & CEO

















**David Baker** 

**Vallon** Pharma

**Shire** 

MERCK

Jean Forcione

**Ed Dahl** 

Kathryn J. Gregory

**Louis Flamand PHD** 





**Gillette** 















### Thykamine™

Thylakoid-based active botanical ingredient (ABI) compound

First-In-Class ABI with Demonstrated Anti-Inflammatory, Anti-Oxidative and Immunomodulatory

**Properties** 

Multiple Indications---1<sup>st</sup> Target: Atopic Dermatitis (Eczema)





**Clinically Effective** 

**Convenient Dosing** 





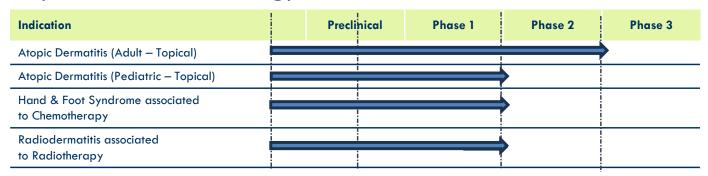
Safe, Well Tolerated

**Well Researched** 

# Thykamine™

### **Drug Development Pipeline Within A Product**

### Key Focus on Dermatology



### Inflammatory Bowel Disease (Gastroenterology)

| Indication                        | Preclinical | Phase 1 | Phase 2a          | Phase 3 |
|-----------------------------------|-------------|---------|-------------------|---------|
| Ulcerative Colitis (Adult – Oral) |             |         | $\longrightarrow$ |         |

### Thykamine™: Multifunctional Mode of Action

### **Platform**



Complex isolated and optimized for clinical applications



Synergistic effect of active ingredients for pharmaceutical treatment effect



If approved, could be used as standalone product

### **Mechanisms of Action**

In-vitro and in Human studies have demonstrated:



### **Anti-inflammatory effects**

Inhibition of pro-inflammatory cytokines
Stimulates anti-inflammatory cytokines



### **Anti-oxidant effects**

**Inhibits Oxygen Radical Production (ROS)** 



# Positive impact on wound healing cascade

**Enhances Elastin and growth factors** 

### Thykamine™

### **Pipeline in a Product**

# Initial Focus on Dermatological Inflammatory Disorders

### **Primary**

Atopic Dermatitis (ECZEMA)

### **Secondary**

Demonstrated Proof-of-Concept in Mild-to-Moderate Ulcerative Colitis

Hand & Foot Syndrome associated with Chemotherapy

Radiodermatitis associated with Radiotherapy



### **Setting Stage for Phase 3 Trial**

#### **POPULATION**

- \*Adults with a diagnosis of AD for at least 6 months
- \*Mild to moderate
- \*Body surface area (BSA) affected of between 5% and 25% 162 participants recruited from 13 Canadian sites

#### PRIMARY ENDPOINT

Proportion of patients with an **IGA score of 0** (clear) or 1 (almost clear) and **with at least a 2-grade improvement in IGA score** from baseline.

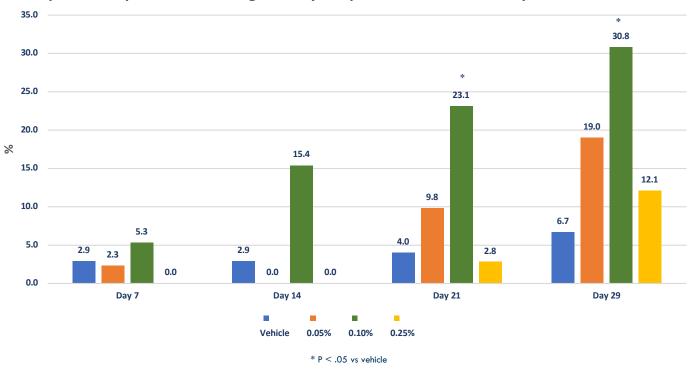
#### **SECONDARY ENDPOINTS**

Change from Baseline to Day 29 in:

- \*IGA score
- \*Body Surface Area (BSA)
- \*Eczema Area and Severity Index (EASI) score
- \*Patient assessment of **Pruritus**
- \*Dermatology Life Quality Index (DLQI) score
- \* Patient-Oriented Eczema Measure (**POEM**)

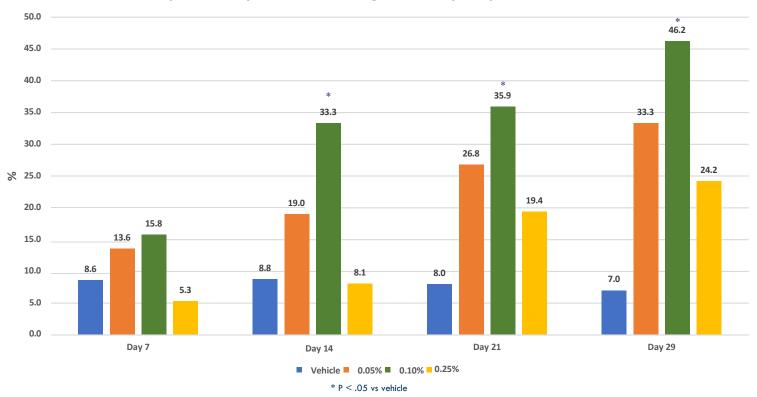
### **Setting Stage for Phase 3 Trial**

### Proportion of patients achieving Primary Endpoint: IGA 0 or 1 and 2-point Reduction from Baseline



### **Setting Stage for Phase 3 Trial**

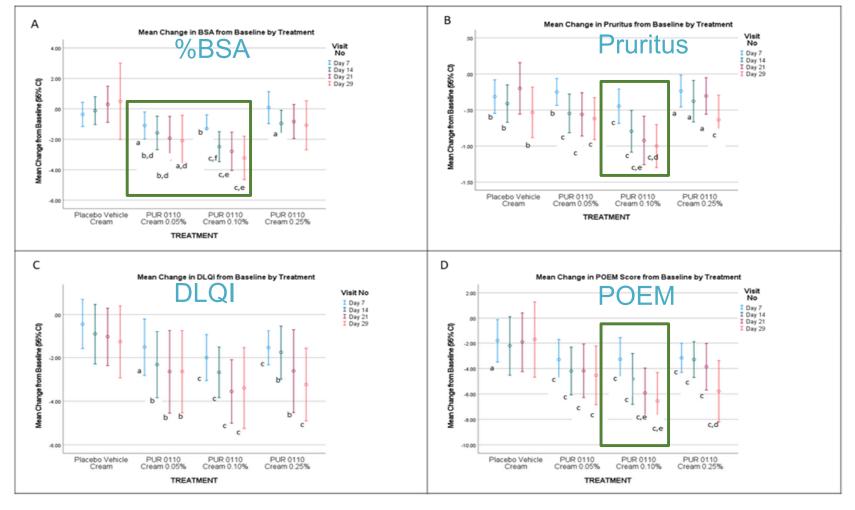
### Proportion of patients achieving Secondary Endpoint: IGA 0 or 1



Thykamine also met other significant Secondary Endpoints:

- BSA
- ✓ Pruritus
- ✓ POEM

# Significant Improvement in Key Secondary Endpoints by Treatment Group Over Time



a: p ≤ .05 vs baseline

b:  $p \le .01$  vs baseline

c: p ≤ .001vs baseline

d:  $p \le .05$  vs vehicle

e: p ≤.01 vs vehicle

f: p ≤.001 vs vehicle

### Generally well-tolerated - Similar rate of adverse events reported for placebo and Thykamine™

Incidence of AEs, n (%) that were probably, possibly, or definitely related to study medication (safety population)

| Severity | Adverse event  | Vehicle (n=40) | Thykamine™<br>(PUR 0110)<br>0.05%<br>(n=44) | Thykamine™<br>(PUR 0110)<br>0.10%<br>(n=39) | Thykamine™<br>(PUR 0110)<br>0.25%<br>(n=39) |
|----------|--|----------------|---|---|---|
|          | Eye disorders  | 0              | 0   | 0   | 1 (2.6)                                     |
| Mild     | General disorders<br>and administration<br>site conditions | 2 (5.0)        | 0   | 0   | 0   |
|          | Skin and<br>subcutaneous<br>tissue disorders               | 2 (5.0)        | 2 (4.5)                                     | 1 (2.6)                                     | 0   |
| Moderate | General disorders<br>and administration<br>site conditions | 1 (2.5)        | 0   | 0   | 0   |
| Severe   | Musculoskeletal and connective tissue disorders            | 0              | 1 (2.3)                                     | 0   | 0   |
| Jevere   | Skin and subcutaneous tissue disorders                     | 2 (5.0)        | 1 (2.3)                                     | 1 (2.6)                                     | 1 (2.6)                                     |

### **Competitive Landscape**

### Competitive landscape vs new biotech products

Efficacy rate similar to other new generation drugs

|                           | Mechanism of action                | Clinical development phase | Patient population | % Patients reaching primary endpoint (p<0.05) |
|---------------------------|------------------------------------|----------------------------|--------------------|---|
| Thykamine <sup>1</sup>    | Immunomodulator                    | II                         | Adults             | 30.8% *                                       |
| Crisaborole <sup>2</sup>  | Phosphodiesterase Inhibitor (PDE4) | Marketed                   | ≥ 3 months         | 32.8%*  |
| PAC-14028 <sup>3</sup>    | TRPV1 antagonist                   | II b                       | Adults             | 38.3%*  |
| OPA-15406 <sup>4</sup>    | Phosphodiesterase Inhibitor (PDE4) | II                         | > 10 years         | 20.9%*  |
| Pimecrolimus <sup>5</sup> | Calcineurin Inhibitor              | Marketed                   | > 3 months         | 34.8% **                                      |

<sup>\*</sup> Primary Endpoint: IGA of clear (0) or almost clear (1) <u>AND</u> 2 point reduction from baseline IGA (ISGA)

<sup>\*\*</sup> Primary Endpoint: IGA of clear (0) or almost clear (1)

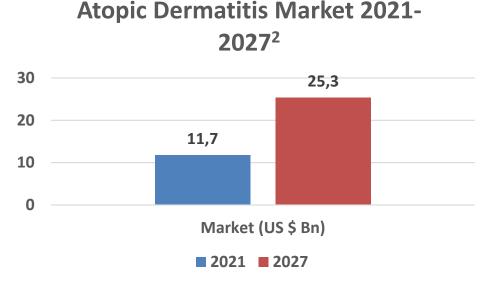
<sup>\*\*</sup> Thykamine: 46.2%

# Thykamine™ for Atopic Dermatitis: Leadership Position Opportunity

101 million adults and 103 million children worldwide have AD. And approx.

70% of treated patients do not reach remission<sup>1</sup>
Unmet Medical Need

- Better tolerability, safety & convenience
- Safer maintenance
- Fewer side effects
- 15-30% of children
- Market to almost double over 6 years to US \$25.30billion by 2027 (14.4% CAGR)<sup>1</sup>.
- Topical drugs represents 68.79 % of market



In a 2020 report, only 2% of patients were satisfied with their current therapy for AD.<sup>3</sup>

### **Atopic Dermatitis: High Unmet Medical Need**

### **Burden and Unmet Need in Atopic Dermatitis**



Despite available therapies, goals are not achieved or sustained for many patients with AD¹-5



**Topical agents** are widely used to treat AD; patients with AD often require systemic therapy as monotherapy or in combination.<sup>2-4</sup>



Systemic therapies, though effective for many patients, do not meet the needs of all patients and may be associated with treatment failure and adverse events that further impact QoL.<sup>2-4</sup>

Even with 90%-100% clearer skin, itch can still impact a patient's life.

<sup>1)</sup> Data Bridge Market Research, Global AD Treatment Market – Industry Trends and Forecast to 2030 Report (2023)

<sup>2)</sup> Global Atopic Dermatitis Atlas, 2022 Report, International Eczema

<sup>3)</sup> Wei W et al. A real-world study evaluating adequacy of Existing Syst Treatments for patients with mode-to-sev AD(QUEST-AD): Ann Allergy Asthma Immunol. 2019;123(4):381-8.

<sup>4)</sup> Kleyn CE et al. Burden of mod-to-sev AD in adults from France, Italy, and the UK:. Dermatol Ther (Heidelb). 2022;12(8):1947-65.

# **Thykamine Milestones**

**Key Targeted Milestones Within the Next 24 Months** 

1

Phase 2/3 Pediatric Atopic Dermatitis Top-line results

2

Phase 2 POC Hand & Foot Syndrome Top-line results

3

**Radiodermatitis Pivotal study Top-line results** 





# **Global Atopic Dermatitis Market Summary**

|   | 2028 Market value (US \$B) |
|---|----------------------------|
| Global AD Market                              | \$ 25.3B                   |
| AD Drug Treatment Market                      | \$ 19.7B                   |
| AD Topical Drug Market                        | \$ 13.3B                   |
| AD Mild-to-Moderate Market (80.8% of Topical) | \$ 10.8B                   |
| AD Pediatric Market (62,4%)                   | \$ 6.7B                    |

### Pediatric Mild-to-Moderate AD Treatment Landscape

# Patients with atopic dermatitis are at higher risk of multiple autoimmune diseases (1,2):

- Alopecia areata,
- Asthma
- Celiac disease,
- Crohn's disease,
- Food allergies,
- Rheumatoid arthritis,
- Rhinitis
- Systematic lupus erythematosus,
- Ulcerative colitis
- Substantial morbidity, including sleep disruption, decreased neurocognitive function, and impaired quality of life for patients and their families

Atopic eczema is more common in children, often developing before their first birthday.

Need for new safe and effective therapies for kids.



# **Focus on Pediatric Segment**

1

High value, less crowded market

2

Most treatments available can only be used on alternate basis

3

Younger patients (<12 years): underserved within this market

4

Leadership possibility as new therapeutic approach



# **Pediatric AD Treatment Landscape**

| Topical Corticosteroids   | Crisaborole topical ointment 2% (Eucrisa)  | Ruxolitinib topical<br>cream 1.5%<br>(Opzelura) | Tacrolimus 0.03%   | Pimecrolimus 0.1%<br>(Elidel)   |
|---|--|---|--|---|
| <ul> <li>Fear and anxiety regarding treatment with topical corticosteroids</li> <li>Topical steroid withdrawal reactions</li> <li>Pediatric patients may demonstrate greater susceptibility to topical corticosteroid- induced hypothalamic-pituitary-adrenal (HPA) axis</li> <li>Skin thinning effect</li> </ul> | PDE4 enzyme blocker  | First topical JAK inhibitor                     | <ul> <li>Calcineurin inhibitor.</li> <li>concerns regarding its<br/>immunosuppressive<br/>potential</li> </ul> | <ul> <li>Calcineurin inhibitor</li> <li>Second line<br/>treatment.</li> </ul> |
| Use in pediatric ≥2 years   | Use in pediatric patients aged ≥3 months   | Use in pediatric ≥12 years                      | Use in pediatric ≥2 years  | Use in pediatric ≥2 years   |
| Long use may cause systemic effects including Kaposi's Syndrome   | Irritation, burning, or stinging site of application, may cause allergic reactions | Limitation due to safety concern                | Black Box Warning :<br>Malignancies and serious<br>infection   | Black Box Warming:<br>Malignancy  |

# **Focus on Pediatric Market Opportunity**

### Target approval in pediatric population with mild-to-moderate AD

### Phase 2/3 clinical study



Randomized, double-blind, placebo controlled, multisite clinical trial



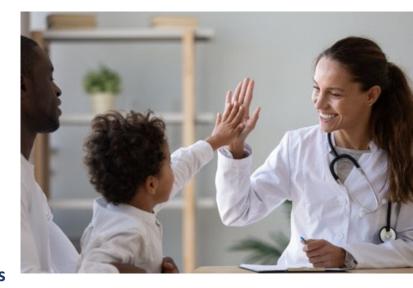
**Targeting 300 patients** 



**Multiple drug concentration** 



**Treatment duration 12 weeks** 





### Radiodermatitis Associated to Radiotherapy

### **Unmet Medical Need** (1,2,3)

### North America, Europe and Australia

50%

of patients diagnosed with cancer will receive radiation therapy during their illness

90%

of these patients will **develop some degree of radiodermatitis** 

Most common side effect Erythema (redness)/Dry desquamation (Dry flaky skin; pruritus)/Moist desquamation (serous drainage)

Pathogenesis: direct radiation injury + subsequent inflammatory response

**Current Therapy:** 

No Gold Standard for prevention/management

**New Therapy/First in Class:** 

Physiopathology requires multitargets therapeutic approach

Thykamine™ as anti-inflammatory

### **Large Patient Impact**

- Pain/discomfort
- Patient's quality of life and well-being
- May cause interruption/termination of radiation therapy

# **Hand & Foot Syndrome Associated to Chemotherapy**

# **Unmet Medical Need Leadership Position Opportunity**

- Hand & Foot syndrome (HFS), is a welldocumented adverse effect of numerous chemotherapeutic agents
- HFS incidence varies at 40% to 60%
   Current Therapies<sup>1:</sup>
   Supportive treatments such as topical wound care, elevation, and cold compresses may help to relieve the pain.

**New Therapy/First in Class:** 

Thykamine™ as anti-inflammatory

### **Large Patient Impact**

- Pain/discomfort
- Patient's quality of life and well-being
- May cause diminution of chemotherapeutic dose/termination of therapy



# **Intellectual Property Portfolio**

| U.S. and international patent estate covering    | Indication       | Four (4) Trade marks |
|--|------------------|----------------------|
| • Extraction / Isolation / stabilization process | • Inflammation   | • Devonian TM        |
| • Composition                                    | Cardiovascular   | • Farm to Pharm TM   |
| • Route of Administration (oral; iv; ip; etc.)   | Gastrointestinal | • PurGenesis TM      |
| • Use  |                  | R-Spinasome ®        |



# State-of-the-Art Pharmaceutical Grade (cGMP)

### **EXTRACTION FACILITY**

- North American sourced raw material
- 1,625 square meters
- Water system upgradable to produce injectables / sterile eye solutions

### PHARMACEUTICAL GRADE

- Facility with custom designed equipment
  - At scale and further scalable
- Full traceability and replicability; QA/QP
- Pharmaceutical-grade production facility meeting Cleanroom Standards











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# ALTIUS HEALTH CARE INC.



- **Ultra-Generic Pharmaceutical Distribution Division** 
  - Focused on in-licensing original medicines for distribution in Canada
- Off-patent products licensed directly from global pharmaceutical companies
  - Portfolio of 3 products
- Simple merchandising business model with minimal operating expenses
- **Latest quarter results April 2024** 
  - Quarter Sales C \$ 5.125 Million
  - Gross margin C \$ 1.251 Million
- Helps support a substantial portion of Devonian's ongoing R&D ongoing costs

# Stock Information<sup>1</sup>

### **CAPITAL STRUCTURE**

| Stock Exchanges             | TSXv: GSD    |
|-----------------------------|--------------|
|                             | OTCQB: DVHGF |
| TOTAL OUTSTANDING SHARES    | 148,222,531  |
| Warrants                    | 11,722,317   |
| Stock Options               | 16,087,721   |
| FULLY DILUTED SHARE CAPITAL | 176,032,569  |

1) As of May 8, 2024



# Why Invest in Devonian?

- Novel multi faceted prescription pharmaceutical
- Addressing unmet needs in auto-immune inflammatory diseases
- Body of pre-clinical and clinical works supports readiness for phase 3
- Leadership experienced in pharma scaling and capital markets
- De-risked by contribution margin from drug distribution subsidiary
- Solid deep patent estate
- Several milestone opportunities in 2025-26 for shareholders value enhancement



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