# Volition (1)

**Corporate Deck** 

February 2024



## Forward Looking Statements and Disclaimer Volition (1)



Statements in this document may be "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, that concern matters that involve risks and uncertainties that could cause actual results to differ materially from those anticipated or projected in the forward-looking statements. Words such as "expects," "anticipates," "intends," "plans," "aims," "targets," "believes," "seeks," "estimates," "optimizing," "potential," "goal," "suggests," "could," "would," "should," "may," "will" and similar expressions identify forward-looking statements. These forward-looking statements relate to the timing, completion and delivery of data from clinical studies, the effectiveness of Volition's blood-based diagnostic and prognostic tests as well as Volition's ability to develop and successfully commercialize such test platforms for early detection of cancer and other diseases as well as serving as a diagnostic or prognostic tool for COVID-19. Volition's actual results may differ materially from those indicated in these forward-looking statements due to numerous risks and uncertainties, including, without limitation, results of studies testing the efficacy of its tests. For instance, if Volition fails to develop and commercialize diagnostic or prognostic products, it may be unable to execute its plan of operations. Other risks and uncertainties include Volition's failure to obtain necessary regulatory clearances or approvals to distribute and market future products; a failure by the marketplace to accept the products in Volition's development pipeline or any other diagnostic or prognostic products Volition might develop; Volition's failure to secure adequate intellectual property protection; Volition will face fierce competition and Volition's intended products may become obsolete due to the highly competitive nature of the diagnostics market and its rapid technological change; downturns in domestic and foreign economies; and other risks identified in Volition's most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, as well as other documents that Volition files with the Securities and Exchange Commission. These statements are based on current expectations, estimates and projections about Volition's business based, in part, on assumptions made by management. These statements are not guarantees of future performance and involve risks, uncertainties and assumptions that are difficult to predict. Forward-looking statements are made as of the date of this release, and, except as required by law, Volition does not undertake an obligation to update its forward-looking statements to reflect future events or circumstances.

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Our mission is to save lives and improve outcomes for millions of people and animals worldwide.

### Who We Are



- Diagnostic company focusing on epigenetic markers
  - Epigenetics = on top of, or in addition to the genome
- Disease areas global killers: Cancer, Sepsis.
- Human and Veterinary use cases:
  - Screening
  - Monitoring (disease progression and response to treatment)
- Revenue focus on veterinary cancer
- Clinical & regulatory product development focus on human sepsis

Plus, EARLY LICENSING OPPORTUNITY for breakthrough early cancer detection method

## What sets us apart?



- Our tests are simple, low-cost accessible routine blood tests
  - Platform agnostic, can be adapted to any diagnostic workflow
    - Manual, Reference Lab, Specialist Lab and Point of Care



Six Hours









45 minutes

20 minutes

<15 minutes

- Our Intellectual Property
  - 87 patents granted, 136 pending, across 48 patent families worldwide<sup>1</sup>

## **Commercial Strategy - Licensing**



#### **Overall strategy**

- R&D conducted by Volition and its research partners
- Volition monetizes IP with upfront payments, milestone payments, royalties and sales of key components
- Commercialisation via global players and in fragmented markets, regional companies

#### Partner with established diagnostic companies to market, sell, and process our test

- Leveraging their networks and expertise
- Multi-platform (external lab and point-of-care)
- Joint tech transfer

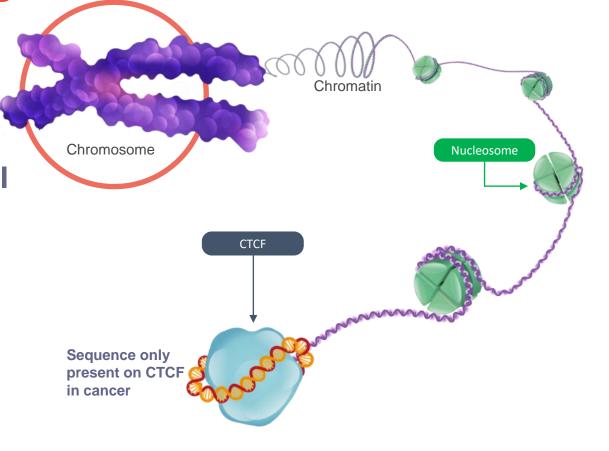
#### Two underlying principles:

- Low CapEx for partners / Low OpEx for Volition
- Accessible worldwide

Our Technologies

Volition (1)

Cancer and cell death cause chromatin fragmentation





### Number of pet dogs in the US<sup>1</sup>



Approximately 84 million





## **Nearly 50%**

of dogs over the age of 10 will develop cancer<sup>2</sup>



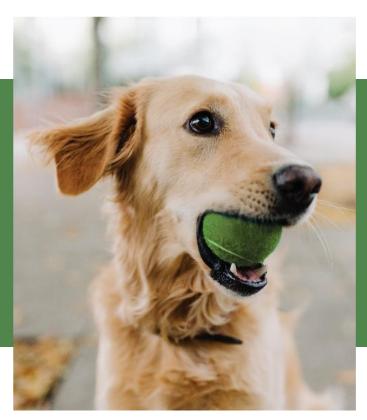


- "Healthy" animals can tolerate treatment better
- Treatment can then often be more cost-effective
- Early detection also opens up opportunities for therapeutic product development

Larkin M. Pet population still on the rise, with fewer pets per household. AVMA. 2021. Retrieved July 22.
 AVMA. <a href="https://www.avma.org/resources/pet-owners/petcare/cancer-pets">https://www.avma.org/resources/pet-owners/petcare/cancer-pets</a> Retrieved Jan 23.

## Clinical Evidence





- 7 common cancers were evaluated in this study
  - 🕉 Lymphoma
  - 👸 Hemangiosarcoma
  - Osteosarcoma
  - 👸 Soft tissue sarcoma

- 👸 Malignant melanoma
- 👸 Histiocytic sarcoma

1. Wilson-Robles, H.M., Bygott, T., Kelly, T.K. et al. Evaluation of plasma nucleosome concentrations in dogs with a variety of common cancers and in healthy dogs. BMC Vet Res 18, 329 (2022). https://doi.org/10.1186/s12917-022-03429-8

## Milestones and Progress





- ★ Signed a global supply agreement with IDEXX Laboratories to provide test through worldwide reference lab network

  ★ Table 1 | Table 2 | Ta
- ₩ Launched in US in Q1 2023

## Milestones and Progress





- Signed exclusive agreement with Heska providing exclusivity at the point of care (POC)
- Signal POC expected to launch in near future
- Ongoing revenue from the purchase of kits and key components



## **Development Pipeline**

Monitoring Application

Cancer in Cats

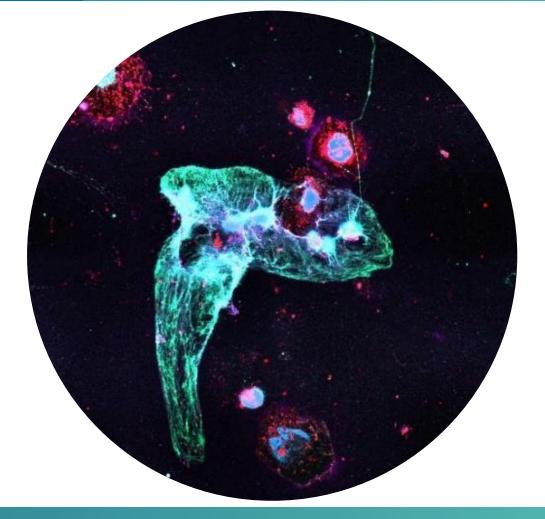
NETosis

# nu-a nets

Sepsis & Thrombosis







## **Sepsis – current challenges**



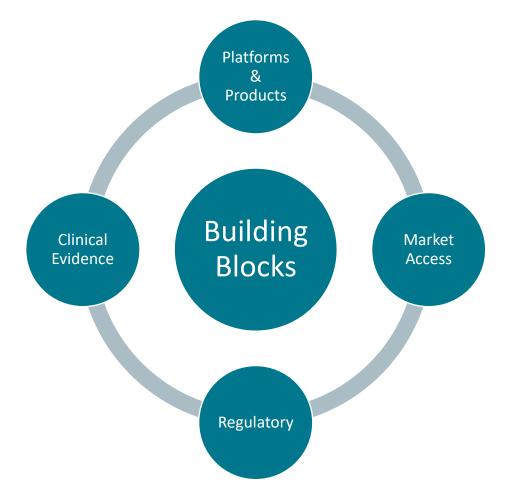
The rapid identification and treatment of sepsis significantly improves patient outcomes and reduces complications and longterm morbidity<sup>1</sup>.

- The risk of death from sepsis increases by 7.6% for each hour of delay in appropriate antibiotic therapy<sup>2</sup>.
- CURRENT methods of assessment (SOFA and APACHE II) are both complex & slow.

1.Singer, M., et al. (2016). The Third International Consensus Definitions for Sepsis and Septic Shock (Sepsis-3), JAMA, 315(8), 801-810. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4968574/ 2. Kumar, A., et al. (2006). Duration of hypotension before initiation of effective antimicrobial therapy is the critical determinant of survival in human septic shock. Critical care medicine, 34(6), 1589-1596.

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## **Study Overviews**



- Range from prospective, blinded, longitudinal studies to retrospective analyses of high-quality biobanks from respected groups.
- Large Cohort sizes ranging from 250 to 1000 patients
- Total samples for analysis ~ 14,000
- Covering ED and ICU
- KEY Outcome measures (correlation with):
  - Sepsis 3
  - Disease severity
  - ICU mortality
  - 28-day mortality
  - Duration of organ support
  - Length of stay

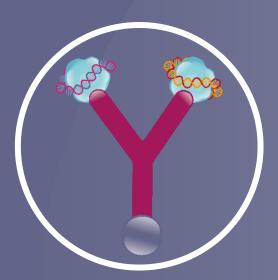
Many available for the Data Room June 2024 and for presentation at ESICM Congress, October 2024

## **Key Milestones**



- Initiate early access of current CE-IVD i10 product in EU with IDS & Centers of Excellence and other targeted clients in EU (IVDD plan), US (RUO) and Asia (RUO): **H1 2024**.
- Demonstrate clinical utility of our current product using product gen1: June 2024.
- Develop product gen2 (three improvements from gen1): April 2024.
- June 2024 is an inflexion point
- cut-off established
- value proposition
- opportunity to reach out to potential collaborators, licensors, funding to help determine the next steps.
- Product gen2 will be used for licensing and/or pivotal and regulatory clinical studies.
- Clinical Utility presentations at ESICM: October 2024.

#### cancer

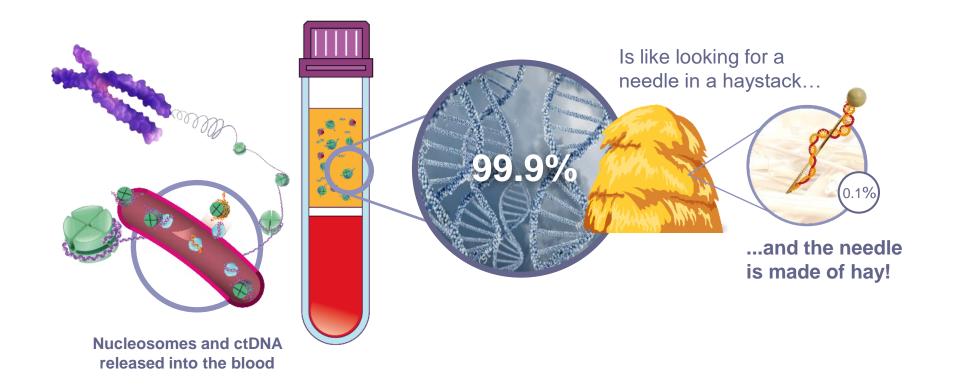


# Early cancer detection by plasma CTCF transcription factor analysis

Poster Presentation ESMO 2023 – see website for details

## Liquid biopsy for ctDNA

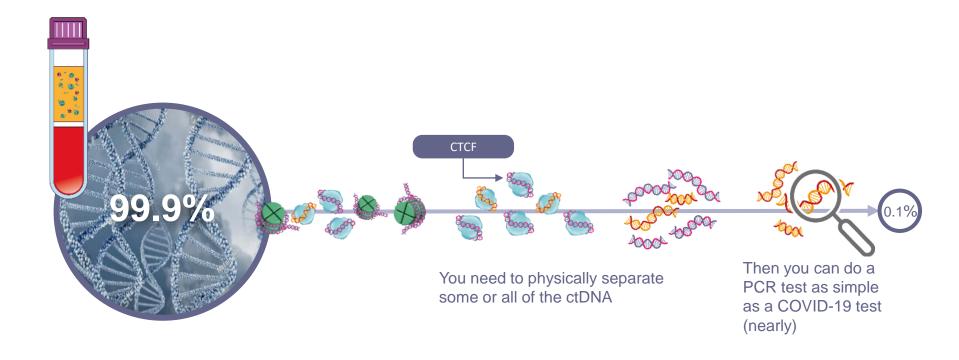




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## Liquid biopsy for ctDNA

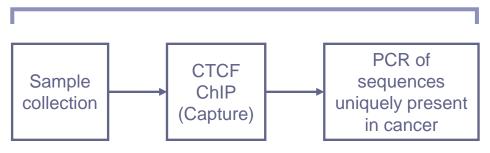




# Novel wet chemistry pathway for ctDNA analysis



### NEW wet chemistry pathway



First novel wet chemistry pathway for liquid biopsy

First report of plasma TF-ChIP (Capture)

## Comparison ChIP/PCR with traditional NGS/ ctDNA assays



### **Traditional NGS/ ctDNA assay**

- Cost >\$1000
- Too complex to be fully automated
- High technology labs only
- Turnaround days or weeks
- Library preparation
- Sequencing
- Bioinformatic computer analysis
- Computer provides the answer

#### ChIP/PCR

- ~\$100
- Can be automated
- Any hospital lab
- Turnaround 1 day (less if automated)
- No library preparation
- No sequencing
- No computer
  - Simple +/- PCR answer (like a COVID-test)

## **Summary**



- Diagnostic company focusing on epigenetic markers
  - Epigenetics = on top of, or in addition to the genome
- Disease areas global killers: Cancer, Sepsis.
- Human and Veterinary use cases:
  - Screening
  - Monitoring (disease progression and response to treatment)
- Revenue focus on veterinary cancer
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## **Summary & Financial Update**

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## **Key Financials Third Quarter 2023**

NYSE American Market: VNRX

Market Cap: \$85.2m\*

52-week range: \$0.55-\$2.10\*

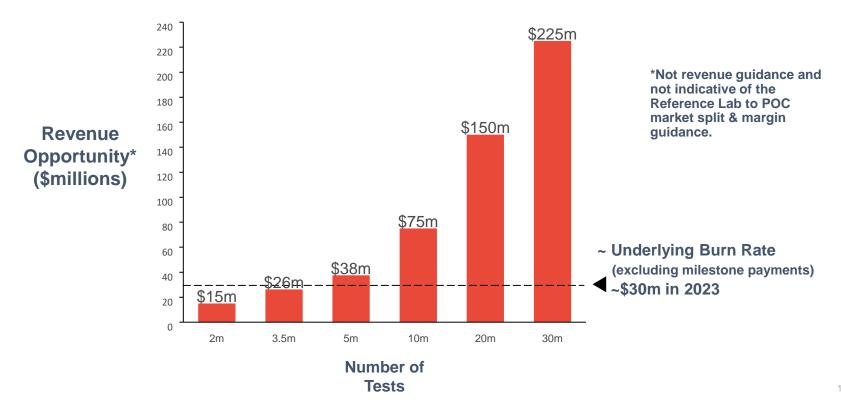
Cash used in operating activities:12-month average ~\$2.5m/mth\*\*

Cash-on-hand: ~\$10.8m\*\*

\* As of Feb 16, 2024 \*\*As of Sept 30, 2023 Subsequent to quarter end received approval of approx. \$6million funding from Belgian fund AND \$13million in milestone payments

# Nu.Q<sup>®</sup> Vet Cancer Test Opportunity Simulation<sup>1.</sup>





1. VNRX TAM Model



## **Questions?**

Thank you for your interest in Volition.

For more details, please visit www.volition.com



## The Team

#### **Executive Team**



**Dill Faulkes PhD, Executive Chairman** - Dill Faulkes has over 30 years of entrepreneurial and managerial experience as the founder and CEO of several software companies within the United Kingdom and the United States. As the Founder and one of the Benefactors of the Dill Faulkes Educational Trust, a UK registered charity, Dill also focuses on charitable activities.



Cameron Reynolds MBA, President & Group Chief Executive Officer - Cameron has extensive experience in the management, structuring, and strategic planning of start-up companies and has held positions including Chief Executive Officer, Chief Financial Officer, and Non-Executive Director of public and private enterprises. Cameron was educated at the University of Western Australia receiving both a B.Com. and an MBA.

**Terig Hughes, Group Chief Financial Officer** – Terig is a seasoned finance professional with over twenty-five years of accounting, finance and business management experience gained through an international career spanning US, Europe and Asia. Terig received a Bachelor's degree in Accounting and Law from De Montfort University, Leicester, UK.



Gaetan Michel PhD, Chief Operating Officer – Gaetan has over 15 years' project management, manufacturing and operational experience at AAT (Advanced Array Technology), EAT (Eppendorf Array Technology), KitoZyme a global manufacturer of biopolymers of fungal origin and latterly Volition. Gaetan was educated at the University of Namur, Belgium receiving both a Bachelor of Science and a PhD.



**Tom Butera DVM, Chief Executive Officer of VVDD** – Tom is a Doctor of Veterinary Medicine with more than 40 years of experience in equine and small animal health in private practice, as well as extensive work in both business development and management of veterinary companies. He earned his Doctor of Veterinary Medicine from the University of Missouri Veterinary School, going on to serve as an Assistant Professor at Tufts University Veterinary School. Tom is an honorary member of the American Veterinary Medical Association and a licensed veterinarian in the Commonwealth of Massachusetts.

**Executive Team** 



Jasmine Kway PhD, Chief Executive Officer, Singapore Volition - Jasmine has a proven track record in achieving positive business results by developing strategic business alliances and identifying new markets. She has successfully commercialized and expanded companies into the Asian markets. Jasmine has a B.Eng. and a PhD in Oceanography from the National University of Singapore.

Gael Forterre MBA, Chief Commercial Officer - Gael has extensive experience investing in and scaling fast-growing companies, most recently as CEO of Path Inc. He is currently a non-executive board member of Integrated Wellness Holdings. Gael started his career as a hedge fund analyst in Paris and worked in a number of investment banking and more recently executive roles over fifteen plus years. Gael received a master's in finance from Sorbonne Paris I and a double MBA from Columbia Business School and the London Business School.

Louise Batchelor, Group Chief Marketing and Communications Officer - Lou has 30 years of marketing, sales and leadership experience. Formerly Lou worked in various roles at Reckitt Benckiser including roles in Paris and New York and AstraZeneca Pharmaceuticals in the U.K. She holds a BA in Business Studies from Sheffield Hallam University.

**Nick Plummer, Group General Counsel** - Nick has over 25 years experience as a corporate and commercial lawyer, specializing in healthcare. Nick qualified with the international law firm, Ashurst, and has since worked in-house for companies such as Novacyt, Ark Therapeutics PLC and Patheon, which is part of Thermo Fisher Scientific.

Rodney Rootsaert, Corporate Secretary - Rod has been part of the Volition team right from its beginnings in 2011. He is an experienced legal and corporate secretary with over fifteen years' experience in providing corporate, legal and administrative services to start-up companies. He previously served as corporate secretary for several mining companies in the United Kingdom. Rod received a Bachelor of Laws degree from the University of Western Australia.