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# **Corporate** Presentation

Bloom Burton & Co Healthcare Investor Conference

April 20, 2021

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### Developing a New Class of Immunotherapies in Oncology and Infectious Disease

We are dedicated to making immunotherapy more effective, more broadly applicable, and more widely available to people facing cancer and other serious diseases.

#### TICKER

IMV (Nasdaq & TSX)

#### MARKET CAP (Apr. 16)

~ \$US 188 M / ~ \$CAD 235 M

#### CASH AND CASH EQUIV. (Dec.31)

~ 36.4 M US \$ / \$CAD 46.4 M

#### **OUTSTANDING SHARES (Mar. 16)**

Basic: 67.7M Fully diluted: 71.6M

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### **IMV Opportunity**



#### DPX<sup>™</sup> delivery platform to create a novel class of immunotherapies

- Unique mechanism of action that generates targeted and sustained stimulation of immune system
- Immune cell activation that can be maintained over an extended period with limited side effects
- Clinically-demonstrated activity in solid / hematologic cancers as well as infectious diseases



#### DPX-Survivac, lead oncology program focused on unmet medical needs

- Demonstrated prolonged clinical benefit and tumor regression in solid and hematologic\* cancers
- Excellent safety profile across all clinical Phase 1 and 2 studies (N=350)
- Potential to become a backbone of immunotherapy for cancer as single treatment, in different lines of settings and with a broad range of possibilities for combinations



#### Next Milestones

- Q2 2021: Initiation of DLBCL trial
- Q2 2021: Translational and biomarker **clinical update** for ovarian cancer DeCidE trial
- H2 2021: Meeting with the FDA and final design for next clinical study in ovarian cancer
- H2 2021: Clinical update / basket trial
- H2 2021: Initiation of a Phase 1 clinical study in bladder cancer with DPX-SurMAGE
- H1 2022: Initiation of phase 2B in ovarian cancer
- H1 2022: Clinical update / DLBCL trial



### Leadership Team with a Strong Track Record in Drug Development





### **DPX™** Has Important Commercial Advantages

Lipid nanoparticle technology





### **DPX™** Technology Induces Targeted and Sustained Immune Response

#### DPX<sup>™</sup> delivery platform has a unique "no release" mechanism of action

- Unique lipid-based delivery platform ٠
- The formulation does not release components at the injection site, allowing antigens to continuously interact with and ۰ stimulate the immune system over an extended period of time.
- Prolonged exposure by safely increasing the immune system's exposure to practically any antigen .
- Versatility: can incorporate broad set of antigens, using peptides to activate T cells ٠



### **Continuous Stimulation of Immune System Over Extended Period**

- DPX<sup>TM</sup> extended delivery into immune cells enables highly targeted T and B cell therapies against cancer cells or pathogens
- Gradual immune system stimulation that can be maintained over an extended period, with limited side effects
- Opens way to a next generation of precision immunotherapy with potential for increased safety, efficacy and ease of care



### Immunotherapy Challenges are Overcome by DPX Technology

#### **Tolerability**

Therapeutic exposure is limited to the injection site. Selective uptake by Antigen Presenting Cells (APCs) eliminates off target toxicity resulting in improved tolerability

#### Durability

Prolonged and protected peptide exposure results in sustained T-cell activation and proven durable clinical response

#### **Patient Access**

Infrequent subcutaneous injections.

Off-the-shelf technology permits immediate treatment post-diagnosis

#### Manufacturing Costs

Fully synthetic and optimized low-cost manufacturing results in a stable (up to three years) and scalable manufacturing process



### Late Stage Clinical Pipeline with Multiple Pending Catalysts

	Product (target)	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Sponsor	Collaborators
Oncology	Maveropepimut-S (Survivin)	Ovarian						
		DLBCL	Combination with	า Keytruda®				
		Basket Trial: (Bladder, Liver, MSI-H)	Combination with	n Keytruda®			IMV™	S MERCK
	DPX-SurMAGE (Survivin + MAGE A9)	Bladder					<b>IMN</b> ™	CHU de Québec Université Laval
	DPX-BRAF/DPX-KRAS	Multiple indications						WISTAR INSTITUTE

tious ease	DPX-RSV (SheA)	Respiratory Syncytial Virus (RSV)		IMV <sup>™</sup>	*CIRN	madita mar ra- ker ra- ker and ra-
Infec Disc	DPX-COVID-19 (Spike)	COVID-19		IMV <sup>™</sup>	*CIRN	anadita misur to construction



### **Maveropepimut-S**

Maveropepimut-S is the first of our T cell activating immunotherapies. It combines the power of our proprietary DPX Platform with the cancer antigen survivin. By activating survivin-specific killer T cells, Maveropepimut-S promotes the destruction of cancer cells and disrupts the fundamental processes of cancer cell reproduction and survival.

### Survivin is Essential for the Biology of Cancer

Survivin is expressed in all 60 human tumor lines (NCI)

Confers resistance to chemotherapy and radiation

Biomarker of poor patient prognosis



#### Promotes cell proliferation

#### Inhibits cell death

Alters cancer metabolism

Promotes angiogenesis and adhesion

Correlates with aggressive disease

Total protein upregulated under hypoxia

Depressed when p53 defective



### **Relapsed Refractory DLBCL**

# Diffuse Large B Cell Lymphoma (DLBCL) is the most common and aggressive form of lymphoma

- Most common type of Non-Hodgkin lymphomas (NHL). Accounts for 30%-35% of all cases of adult NHL.
- 27,000 new cases/year in the US
- 35–40% of patients will exhibit primary refractory disease or relapse following an initial response to therapy and will have a very poor outcome
- Median overall survival is 4.4 months for patients who fail salvage regimens



High unmet medical need for non-eligible ASCT or non-eligible/CAR-T failure population



### SPiReL Trial in Relapsed/Refractory DLBCL

#### Enrolled subjects are treated for 1 year or until confirmed PD

- Maveropepimut-S 0.5 mL on study day 7 and 28; then 0.1 mL every 8 weeks
- Pembrolizumab 200 mg every 3 weeks
- Intermittent, low dose cyclophosphamide (CPA: 50 mg BID, 1 wk on, 1 wk off)

#### Current Status: accrual ongoing; 24 enrolled; 3 ongoing



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### Maveropepimut-S/Pembrolizumab Treatment Success in DLBCL 90.9% Clinical Benefit Observed in Biomarker Positive Population

#### Patient selection biomarker identified

Program Death Ligand 1 (PD-L1) positive

18 patients with pretreatment samples 86% (6/7) of subjects with Objective Response Rate (ORR) (3 CR, and 3 PR) in PD-L1 positive

0% (0/11) ORR in PD-L1 negative

90.9% of evaluable subjects showed clinical benefit with minimal toxicity (most grade 1 and 2 were injection-site related adverse events)



Based on these results, IMV recently engaged with the FDA which provided productive feedback. The Company has finalized the protocol with its partner and a Phase 2b clinical study is expected to begin in Q2 2021,



Clinical outcomes for the SPiReL trial were presented at the American Society of Hematology (ASH) annual meeting on December 3, 2020



### Survivin-specific T cell Responses Confirm Maveropepimut-S MOA

Maveropepimut-S Induced Survivin-specific T cell Responses by ELISpot





### Clinical Effect in PD-L1 Positive Patients was Profound

Analyses of Baseline PD-L1 Expression and Clinical Response



**PD-L1 expression with observed clinical responses**. (A and B) represents percentage of PD-L1+ CD20+ cells scored in the tumor region and categorized by observed clinical responses. (C and D) represents percentage of total PD-L1+ cells scored in the tumor region and categorized by observed clinical responses. PD-L1 expression was assessed using mIHC analyses (Akoya Biosciences, Opal Panel) using CST #E1L3N antibody. PD-L1 expression across different clinical response groups were compared using two-tailed Mann-Whitney test



### Significant Activity Observed Beyond that Expected from I/O Single Agents



<sup>†</sup>To be declared "evaluable", subjects must have received 4 doses of pembro and 3 doses of Maveropepimut-S (D84)

### DLBCL Trial Design (Q2 Initiation)



Early stopping rules will enable focus on optimal therapy

• Arm may be stopped early if emerging safety and/or efficacy data supports one arm over another

PD-L1 expression will be assessed at baseline

Patient population and clinical endpoints aligned with FDA guidance, to optimize potential for accelerated approval



### Maveropepimut-S – DLBCL 2024 US Commercial Opportunity



\* Data Monitor, 2019 syndicated report



### **Recurrent Ovarian Cancer**



**Fifth most common cause of cancer** mortality in women 239,000 cases and 152,000 deaths worldwide each year. Median age at diagnosis is 63.



**Almost all patients relapse** and eventually become resistant to platinum-based therapy (70% of patients relapse within 3 years)



**Standard of care for recurrent platinum resistant ovarian cancer** Single-agent chemotherapy (doxorubicin, paclitaxel, or topotecan)

- 12% objective response rate (ORR)
- 3 to 4.4 months Progression Free Survival (PFS)

#### High unmet medical need

- Platinum resistant and non eligible to chemo, elderly population
- No immunotherapy approved

K Moore et al., ESMO 2019; Pujade-Lauraine et al., SGO 2019; Gaillard et al., ESMO 2018; SmartAnalyst report 2019. Garon et al., Lancet 2014; Rittmeyer A, et al. Lancet. 2017; Borghaei H, et al. N Engl J Med. 2015; SmartAnalyst report 2019

### High unmet medical need

12% ORR | 3 to 4.4 months PFS is current standard of care

### DeCidE<sup>1</sup> – Maveropepimut-S/CPA - Study Design Maveropepimut-S Monotherapy



- Platinum sensitive and resistant
- Largest lesion no more than <u>4 cm</u>
- No limit to # prior lines of therapy
- No prior exposure to anti-PD1/PD-L1
- ECOG 0-1

Current Status: accrual complete; 22 enrolled; 1 ongoing



## Maveropepimut-S Alters the Tumor Immune Environment

**Proof-of-Principle for Immune Activation** 



Significant increase of CD8+ T cell infiltration at the tumor site on treatment with Maveropepimut-S

These data confirm the ability of Maveropepimut-S to induce robust survivin-specific effector T cell response in ovarian cancer patients despite multiple lines of prior myelosuppressive therapies



### ~80% Patients Showed Clinical Benefits

Recurrent ovarian cancer, Maveropepimut-S/CPA (N=19)



Tumor reduction and disease control were observed in the majority of the 19 evaluable subjects.



### **Responding Patients Show Durable Clinical Benefits**



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### Phase 2 Basket Trial in Multiple Advanced Metastatic Solid Tumors

#### **Primary objectives:**

objective response rate (ORR) using RECIST v1.1; Safety

#### Secondary objectives:

ORR, DoR, DCR, and PFS using iRECIST; overall survival

#### **Exploratory objectives**:

changes in immune cell infiltration; assessment of potential biomarkers; peripheral levels of cell mediated immunity; patient reported outcomes

**Treatment:** Maveropepimut-S 2 x 0.25 mL SC q3w followed by up to 11 x 0.1 mL q9w; oral CPA 50 mg BID on alternating weeks; pembrolizumab 200 mg IV every three weeks



### Phase 2 Basket Trial in Multiple Advanced Metastatic Solid Tumors

**Promising Preliminary Results** 





### **Other Clinical Programs**

### DPX-SurMAGE

- Dual-targeted immunotherapy
- Formulation of the DPX delivery platform with Immunogenic peptides from survivin and MAGE protein family
- H2 2021: First-in-human study in patients with non-muscle invasive bladder cancer
- Collaboration with the Research Centre of Québec – Laval University

### DPX-COVID-19

- Due to the evolution of the regulatory landscape, the emergence of new variants and the approval of vaccines in different areas of the world, the Company is conducting complementary preclinical studies including evaluating the impact of new variants.
- Complementary preclinical studies are ongoing

### Summary



Advancing novel immunotherapies for difficult-to-treat cancers and infectious diseases



Proof of Concept from first Phase 2 studies in solid and hematologic cancers demonstrating efficacy, safety and duration



De-risked clinical program in DLBCL on strength of positive data and establishment of biomarker



Profile in ovarian cancer suggests multiple potential paths to market including monotherapy, combination and even maintenance therapy



DPX-COVID-19 with potential ability to serve an older / immunocompromised population



Fully synthetic formulation that allows rapid, cost-efficient scale-up manufacturing



### **IMV's Upcoming Milestones**

Program	Q2 2021	Q3 2021	Q4 2021	H1 2022
DLBCL	Initiation Phase 2B			Clinical update First results
Ovarian	Clinical update Translational and Biomarker analysis	FDA meeting / Ph	ase 2B clinical design	Initiation Phase 2B
Basket Trial		Clinica	al update	)
DPX-SurMAGE (Bladder cancer)		Initiation Phas	se 1 clinical study	
COVID-19	Submission of pre-clinical manuscript			



# Nasdaq & TSX: IMV

### www.imv-inc.com



### Financial Information (April 16, 2021)

Market cap	188 M \$US / 235 M \$CAD		
Cash and cash equivalents (Dec. 31, 2020)	~ 36.4 M US \$ / 46.4 M \$CAD		
Outstanding shares (March 16, 2021)	Basic: 67.7 M Fully diluted: 71.6 M		
52 Week Trading Range - Nasdaq	\$US 1.66 - \$US 6.82		
52 Week Trading Range - TSX:	\$CAD 2.33 - \$CAD 9.25		
Average daily volume (US & Canada) (as at 04/16/2021, last 30 trading days, includes alternative exchanges in Canada)	477 K shares		



