



MEDIVIR

Improving life for cancer patients
through transformative drugs

Trout Hamptons CEO Roundtable

August 2018

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Improving life for cancer patients through transformative drugs

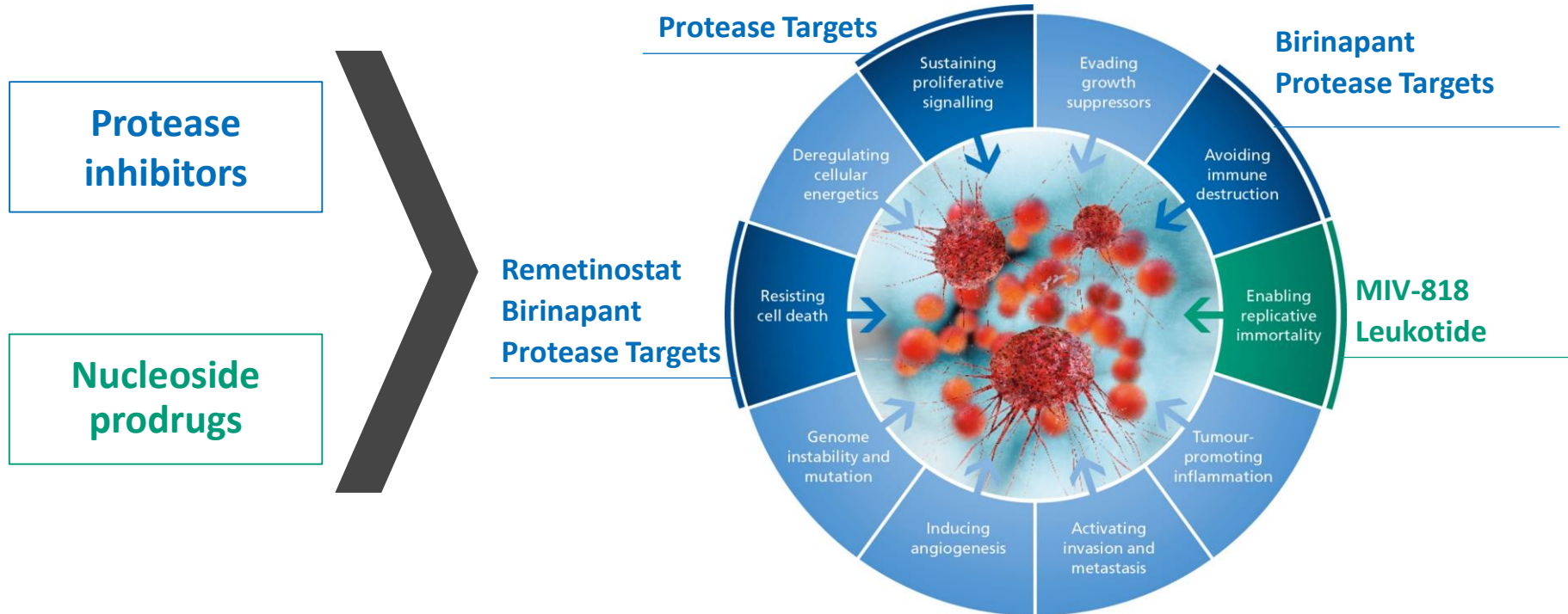
- Using **world-class scientific expertise** to bring new therapies to cancer patients
- **Clinical pipeline** composed of projects with **multi-billion dollar sales** potential as well as **orphan cancer drug candidates**
- Strong commercial focus – delivered more than **20 global partnerships** and **2 products from idea to market**

Basic facts

- Headquarters in Huddinge, Sweden
- 79 employees, 43 with PhDs
- Listed on the Nasdaq Stockholm, ticker: MVIR
- Current market capitalization: >SEK 900m (>USD 100m)¹
- Website: www.medivir.com



Leveraging scientific expertise to build pipeline in oncology



Adapted from: The Hallmarks of Cancer: The Next Generation.
Hanahan and Weinberg, Cell (2011), 144, 646-674

Oncology drug development in areas of high unmet need

Strong and balanced development pipeline based around areas of scientific expertise and focused on cancer

	Project, Mechanism	Disease area	Clinical phase				Market
			Preclinical	Phase I	Phase II	Phase III	
Cancer	Remetinostat Topical HDAC inhibitor	Early-stage cutaneous T-cell lymphoma	[Blue bar spanning Preclinical, Phase I, and Phase II]				~\$1b US only
	Birinapant SMAC mimetic	Solid tumors (combo with Keytruda®)	[Blue bar spanning Preclinical and Phase I]				Blockbuster
	MIV-818 , Nucleotide DNA polymerase inhibitor	Hepatocellular carcinoma	[Green bar spanning Preclinical]				Orphan US/EU Significant Asia
	MIV-711 Cathepsin K inhibitor	Osteoarthritis	[Blue bar spanning Preclinical, Phase I, and Phase II]				Blockbuster

■ Protease related
■ Nucleot(s)ide related

Collaborations enhance the value of programs

Academic



Industrial

Product/Project

Zoviduo®/Xerclear
(labial herpes)
acyclovir + hydrocortisone

Platform Link

Nucleoside
analogue

Partners



Status

Marketed

Medivir Interests

- Royalties from sales
- Approval milestones for additional OTC switches

MIV-802 (HCV)
*Nucleotide NS5B
polymerase inhibitor*

Nucleotide



Phase I ready
Ascleitis intends to
file IND in China
during Q3 2018¹

- Development milestones
- Royalties from sales

Competences from discovery through regulatory approvals

Management team with extensive experience and proven track record of successful development



CHRISTINE LIND, President and CEO

- EVP, Business Development at Medivir
- VP, Business Development, LifeCell Corporation
- Biotech and pharma strategic advisory and capital raising at Merrill Lynch & Co. and GKM & Co.
- B. Sc. Finance and Info Systems, NYU and MBA, Columbia Business School



RICHARD BETHELL, Chief Scientific Officer

- 28 years drug discovery and development in oncology and infectious disease
- VP, Biology/DMPK (Boehringer Ingelheim (Canada))
- VP, Therapeutic Research (Shire)
- Pfizer and GlaxoSmithKline R&D
- Doctor of Philosophy (D. Phil.) in chemistry from Oxford University



ÅSA HOLMGREN, EVP Strategic Regulatory Affairs

- Head of Regulatory Affairs at Orexo AB
- Various large pharmaceutical companies, including 12 years as Senior Global Regulatory Affairs Director at AstraZeneca, and at AstraZeneca in Canada and Japan
- M. Sc. in Pharmacy, trained Uppsala University



ERIK BJÖRK, Chief Financial Officer

- CFO for AstraZeneca Sweden Operations
- 11 years with Procter & Gamble, in global finance leadership positions in Switzerland, UK and Sweden
- MSc in Finance and LLM from Lund University



CHRISTINA HERDER, EVP Strategic Business Development

- CEO of Modus Therapeutics
- Director, Corporate Development at Sobi
- Project & Portfolio Management at Biovitrum
- Current member of the boards of PCI Biotech and Idogen
- Ph. D. in physical chemistry from Royal Institute of Technology and MBA from Stockholm University



DANIEL ERIKSSON, Chief Information Officer

- Various IT roles relating to security, decision support, innovation, and digitalization
- Most recently, Technical Director for G4S Risk Management
- PhD Coventry University and BSc in Systems Science, Linköping University

Cancer biology, chemistry, intellectual property, DMPK, CMC, toxicology, clinical development, regulatory strategy, business development

79 employees, 43 with PhDs,
18 nationalities, balanced gender split

MIV-711: ORAL ONCE DAILY CATHEPSIN K INHIBITOR WITH FDA FAST TRACK STATUS FOR OA DISEASE MODIFICATION

Phase IIa data show unprecedented osteoarthritis disease modification

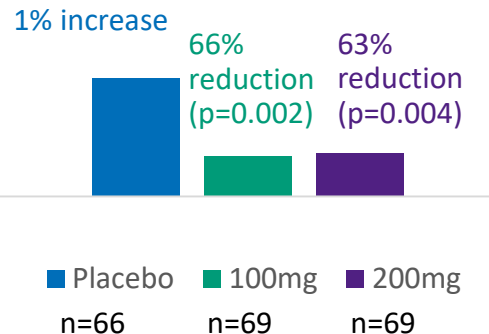
No existing disease modifying drug for Osteoarthritis

- Affects >30m adults in the US, and ~240m worldwide
- Disease involves both bone and cartilage

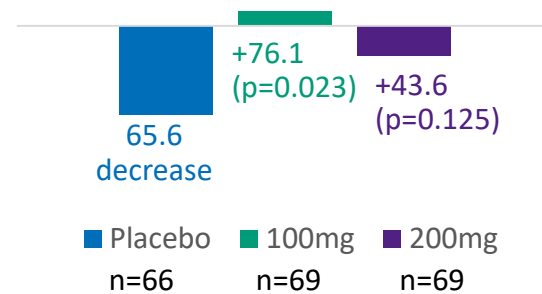


Benefit on both bone and cartilage in Phase IIa study

Change in medial femur joint bone area (%)



Change in central medial femur cartilage thickness (µm)



Positive signals on clinical symptoms

- MIV-711 consistent tendency to improve outcomes across all pain and other patient reported symptoms vs. placebo and sustained with additional 6 months treatment

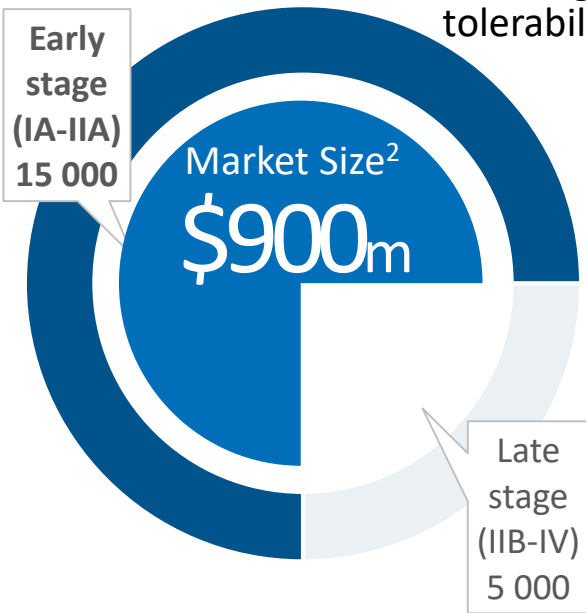
Safety and tolerability profile supports late stage development

<http://acrabstracts.org/> Abstract 14L

Addresses key unmet need with positive Phase II data

**US CTCL patients¹:
orphan disease**

Key unmet need:
balance of efficacy
and long-term
tolerability



Effect on lesions & reduction of pruritus (itch)

Dose	1% 1x/day n=20	0.5% 2x/day n=20	1% 2x/day n=20
Lesion responses ³	20%	25%	40%
Patients with clinically significant pruritus ⁴	8/20 (40%)	6/20 (30%)	10/20 (50%)
Pruritus responses	37.5%	50%	80%

M Duvic *et al.*, EORTC Cutaneous Lymphoma Task Force Meeting (2017), Abstract O55

Highly tolerable with no systemic side effects

- Even dose distribution of AEs, mostly grade 1 or 2
- No HDAC inhibitor-associated systemic adverse events
- Median time on treatment: 332 days (1% 2x/day dose)

Potential to enhance patient response with immune-oncology therapies

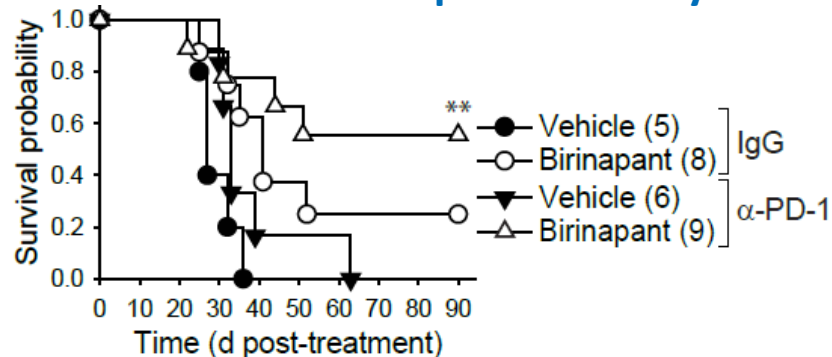
Despite immuno-oncology breakthroughs patients have unmet needs

0-5% ORR

Currently in indications such as MSS colorectal cancer

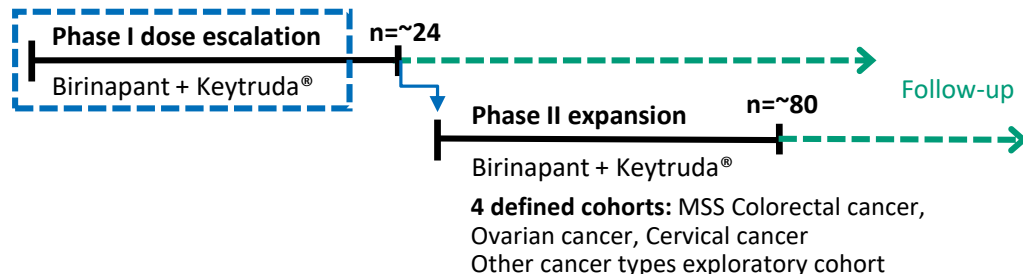
Strong rationale for combination of birinapant with Keytruda®

Enhanced activity in preclinical models¹ compared to either agent alone



Phase I/II study underway in collaboration with MERCK

- Keytruda® provided at no cost
- Joint Development Committee, bringing Merck's immuno-oncology expertise
- Medivir retains full global rights to birinapant and data



Potential to improve efficacy and safety for patients with liver cancers

Liver cancer¹

- Orphan disease in Western markets, but much more common in Asia
- One of fastest growing and most deadly cancers in US
- Genetically heterogeneous leading to limited effect of molecularly targeted therapies

Improve a nucleoside with Medivir prodrug technology

Troxacitabine
(nucleoside)



MIV-818

(liver-targeted nucleotide prodrug)

- **Active** in preclinical cancer models and in clinic
- Failed in clinic due to systemic dose-limiting **toxicities**
- **Enhanced activity** 10x more potent against HCC cell lines than parent troxacitabine
- **Selectivity for cancer** Active on HCC cells while sparing non-cancerous hepatocytes
- **Improved delivery to the liver** >100-fold relative to systemic exposure of troxacitabine
- **Synergy with multikinase inhibitors** (e.g. sorafenib)
- **Market exclusivity** with full new chemical entity patent protection



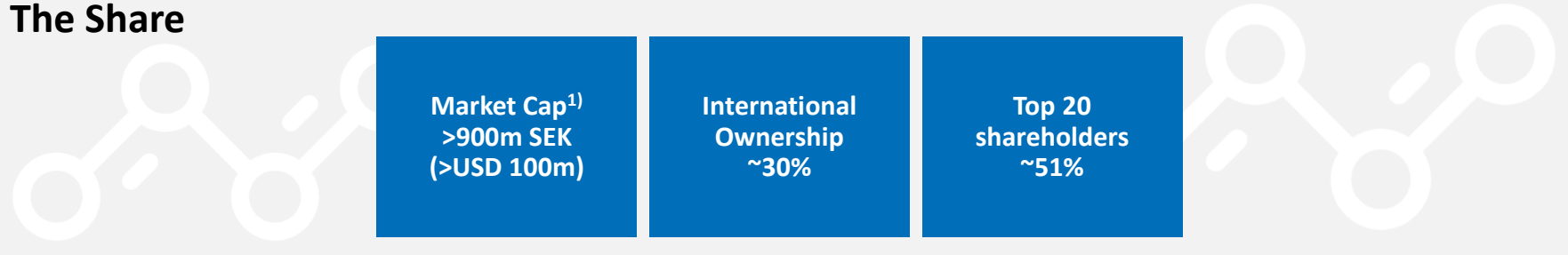
Outlook

Cash position and shareholder base

Cash Position



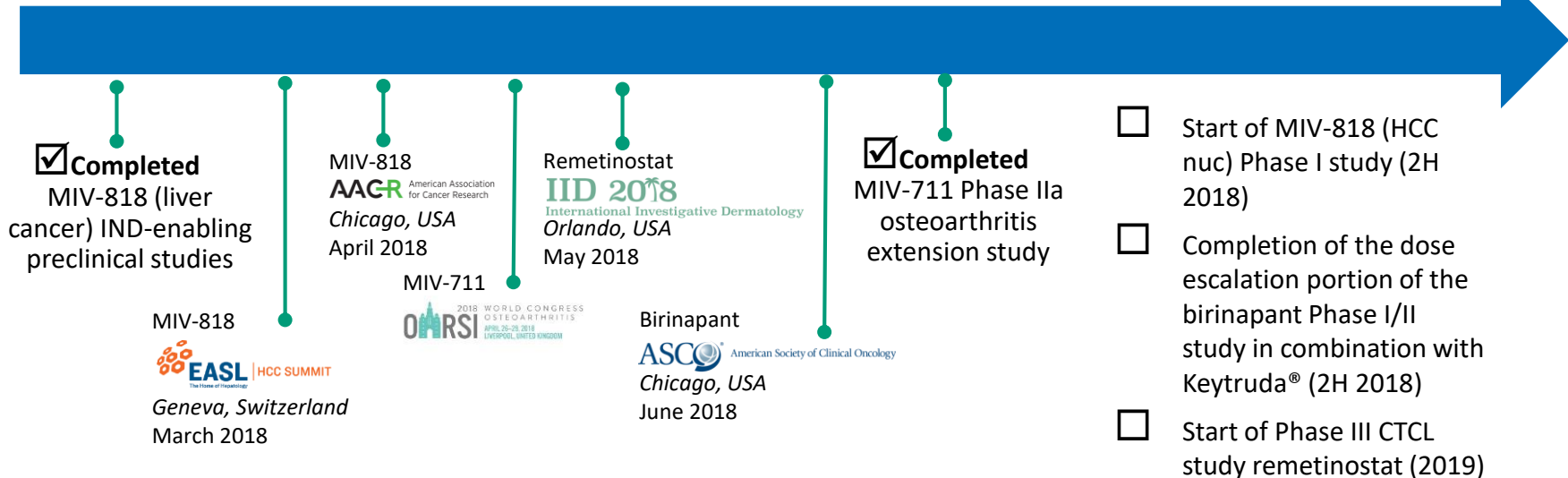
The Share



Key milestones throughout the year

Track record of delivery

Coming events



Why Medivir?

For more information:

- Nasdaq Stockholm, ticker: MVIR
- www.medivir.com

- Track record of delivery

3 new drugs from research
into development in 2 years

2 products from
idea to market

>20 global partnerships,
multiple repeat partners

- Strong pipeline from discovery through clinical stages with upcoming catalysts
- Competences from discovery through regulatory approvals
- Near-term opportunities for revenues from partnerships