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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**FORM 8-K**

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**CURRENT REPORT  
Pursuant to Section 13 or 15(d) of the  
Securities Exchange Act of 1934**

Date of report (Date of earliest event reported): **July 16, 2018**

**ADVAXIS, INC.**

(Exact Name of Registrant as Specified in Charter)

**Delaware**  
(State or Other Jurisdiction  
of Incorporation)

**001-36138**  
(Commission  
File Number)

**02-0563870**  
(IRS Employer  
Identification No.)

**305 College Road East  
Princeton, New Jersey, 08540**  
(Address of Principal Executive Offices)

**(609) 452-9813**  
(Registrant's telephone number, including area code)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act.
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act.
- Pre-commencement communications pursuant to Rule 14d-2b under the Exchange Act.
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act.

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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**Item 8.01 Other Events.**

Attached hereto as Exhibit 99.1 and incorporated herein by reference is a PowerPoint presentation, including a corporate overview of the Company, which will be made available on its website at [www.advaxis.com](http://www.advaxis.com).

**Forward-Looking Statements**

This report contains forward-looking statements, including, but not limited to, statements regarding the Company's ability and strategies to develop and commercialize cancer immunotherapies, timing of planned clinical trials and regulatory milestones, potential partnership opportunities and the safety and efficacy of the Company's proprietary immunotherapies. These forward-looking statements are subject to a number of risks including the risk factors set forth from time to time in the Company's SEC filings including, but not limited to, its report on Form 10-K for the fiscal year ended October 31, 2017, which is available at [www.sec.gov](http://www.sec.gov). Any forward-looking statements set forth in this report speak only as of the date of this report. We do not intend to update any of these forward-looking statements to reflect events or circumstances that occur after the date hereof other than as required by law. You are cautioned not to place undue reliance on any forward-looking statements. Information contained on the Company's website does not constitute part of this report.

**Item 9.01. Financial Statements and Exhibits.**

(d) Exhibits.

The following exhibit is furnished as part of this report:

<b>Exhibit Number</b>	<b>Description</b>
99.1	<a href="#">July 2018 Investor Presentation.</a>

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

**ADVAXIS, INC.**  
(Registrant)

Date: July 17, 2018

By: /s/ Kenneth A. Berlin  
Kenneth A. Berlin  
President and Chief Executive Officer

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**ADVAXIS**  
IMMUNOTHERAPIES™

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**Corporate Presentation**  
**July 2018**

Nasdaq: ADXS

This presentation contains forward-looking statements, including, but not limited to, statements regarding Advaxis' ability and strategies to develop and commercialize cancer immunotherapies, timing of planned clinical trials and regulatory milestones, potential partnership opportunities and the safety and efficacy of Advaxis' proprietary immunotherapies. These forward-looking statements are subject to a number of risks including the risk factors set forth from time to time in Advaxis' SEC filings including, but not limited to, its report on Form 10-K as well as its Forms 10-Q and 8-Ks, which are available at <http://www.sec.gov>.

Any forward-looking statements set forth in this presentation speak only as of the date of this presentation. We do not intend to update any of these forward-looking statements to reflect events or circumstances that occur after the date hereof other than as required by law.

- Global immuno-oncology market is forecasted to exceed **\$100B** in the next few years
- Current immuno-oncology market is dominated by checkpoint inhibitors (CPIs) that have somewhat limited efficacy in many tumor types
- Our solution: A differentiated approach to fight cancer which leverages our proprietary *Listeria monocytogenes (Lm)* platform with increasingly better payloads
  - Unique antigen-presenting platform which trains and mobilizes the immune system to attack cancer cells
  - Proof of concept demonstrated in cervical cancer with ADXS-HPV where we have seen a number of complete and partial responses
  - Intriguing early data in prostate cancer with ADXS-PSA
- Focusing on the neoantigen space, which has the potential to transform cancer treatment
  - Personalized, neoantigen product candidates (ADXS-NEO) in partnership with Amgen with first patient dosed in June 2018
  - Cancer-type specific product candidates targeting public neoantigens in high value tumor types (ADXS-HOT)
    - Plan to file four INDs for four different tumor types in our ADXS-HOT program by end of 2019
    - First IND submitted for non-small cell lung cancer (NSCLC) with first patient expected to be dosed by end of 2018
    - Second ADXS-HOT product candidate for prostate cancer; IND to be submitted by end of 2018

# Clinical Pipeline Overview

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	CANCER INDICATION	IND	PHASE 1	PHASE 2	PHASE 3
<b>AXAL</b>	AIM2CERV, High-Risk, Locally Advanced Cervical				
	Metastatic Cervical: Combination with durvalumab	AstraZeneca			
	HPV+ Head and Neck	~70% of head-and-neck cancers are HPV+	★		
<b>ADXS-PSA</b>	Metastatic Prostate Combination with KEYTRUDA® (pembrolizumab)	MERCK			
<b>ADXS-NEO</b>	Multiple Cancers by Targeting Personal Neoantigens	AMGEN			
<b>ADXS-HOT</b>	Non-Small Cell Lung		2018	IND Submitted	
	Prostate		★ 2018		
	HOT Construct 3*	* Future ADXS-HOT constructs will be selected from the following five tumor types: Breast, colorectal, bladder, ovarian, head and neck cancers	★ 2019		
	HOT Construct 4*		★ 2019		

Advaxis Funded

Partner Funded



## *Lm* vectors mimic natural infection and redirect immune response against cancer through:

1. **INNATE IMMUNITY:** *Enhanced antigen presentation activates multiple pathways* and alerts and trains the immune system
2. **ADAPTIVE IMMUNITY:** Mobilizes and generates a *cancer-specific T cell* response to attack the tumor
3. **CHANGES TO TUMOR MICROENVIRONMENT (TME):** *Reduces protective cells (Tregs and MDSCs) in the TME* that shield the tumor from the immune system

The *Lm* platform has been clinically evaluated in more than 500 patients across multiple clinical trials.

## ADX-HPV (AXAL)

**Clinical data:** Prolonged survival and complete responses in cervical and anal cancer patients (monotherapy)

## ADX-PSA

**Clinical evidence** of disease stabilization and antigen spreading in prostate cancer patients along with reductions in levels of PSA

## ADX-NEO

**Personalized, patient-specific** products based on sequencing of each patient's tumor

## ADX-HOT

**Cancer type-specific** products based on commonly expressed public hotspot mutations and proprietary cancer antigens

### Advaxis increasing focus on neoantigen programs

- Highly innovative targets
- Higher number of targets per drug candidate
- Optimized vector to enhance antigen presentation
- High value cancer indications

# Why are We Focused on Neoantigens?

- Mutations cause cancer and also create neoantigens
- Neoantigens are only found in cancer cells which makes them good therapeutic targets
- T cells that target neoantigens are the common link among successful immunotherapies developed to date; e.g. checkpoint inhibitors, TILs
- Our Lm platform is effective at generating T cells that target multiple neoantigens
  - Preclinical data demonstrate that over 90% of neoantigens in an ADXS-NEO vector generated T cell responses that controlled tumor growth<sup>1</sup>
  - Large capacity allows for simultaneous presentation of greater than 20 neoantigens
- Neoantigen vaccines can work alone or in combination with other cancer therapies

**ADXS-NEO**

*Patient-specific therapies  
targeting personal neoantigens  
based on sequencing of each  
patient's tumor*

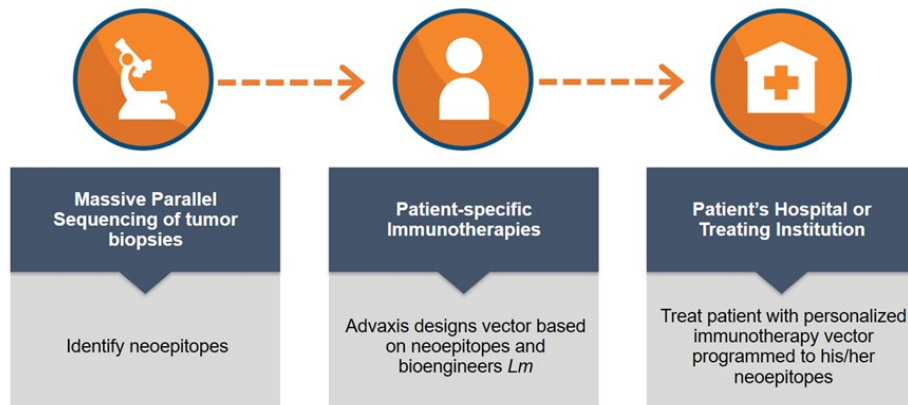


- ADXS-NEO is a truly personalized approach, whereby the patient's immune system is activated to create a targeted T cell response to their personal neoantigens based on their unique mutations
- The *Lm* platform's impact on the immune system (i.e., innate immunity, adaptive immunity, and changes to the TME) provides potential for strong anti-cancer effects
- The *Lm* platform's capacity allows for targeting a large number of personal neoantigens
- Recognizing these attributes, Amgen partnered with Advaxis for the development of ADXS-NEO

In partnership with **AMGEN**®

# The Personalized ADXS-NEO Approach

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Needle-to-needle in ~8 weeks

A Phase 1 dose-escalation study of ADXS-NEO expressing personal tumor antigens

★ First patient dosed June 2018

#### Tumor Types:

- Metastatic microsatellite stable colon cancer
- Metastatic squamous histology head-and-neck cancer
- Metastatic non-small cell lung cancer



#### Dose-escalation Phase

n = 9-18  
3 + 3 design  
1 x10<sup>9</sup>, 2 x10<sup>9</sup>, or  
4 x10<sup>9</sup> CFU  
Q3 weekly

#### Expansion Phase

n=30 (10 per tumor type)  
Up to 1 year dosing



#### Endpoints:

##### Primary

Tolerability/Safety

##### Secondary

Clinical activity  
RP2D

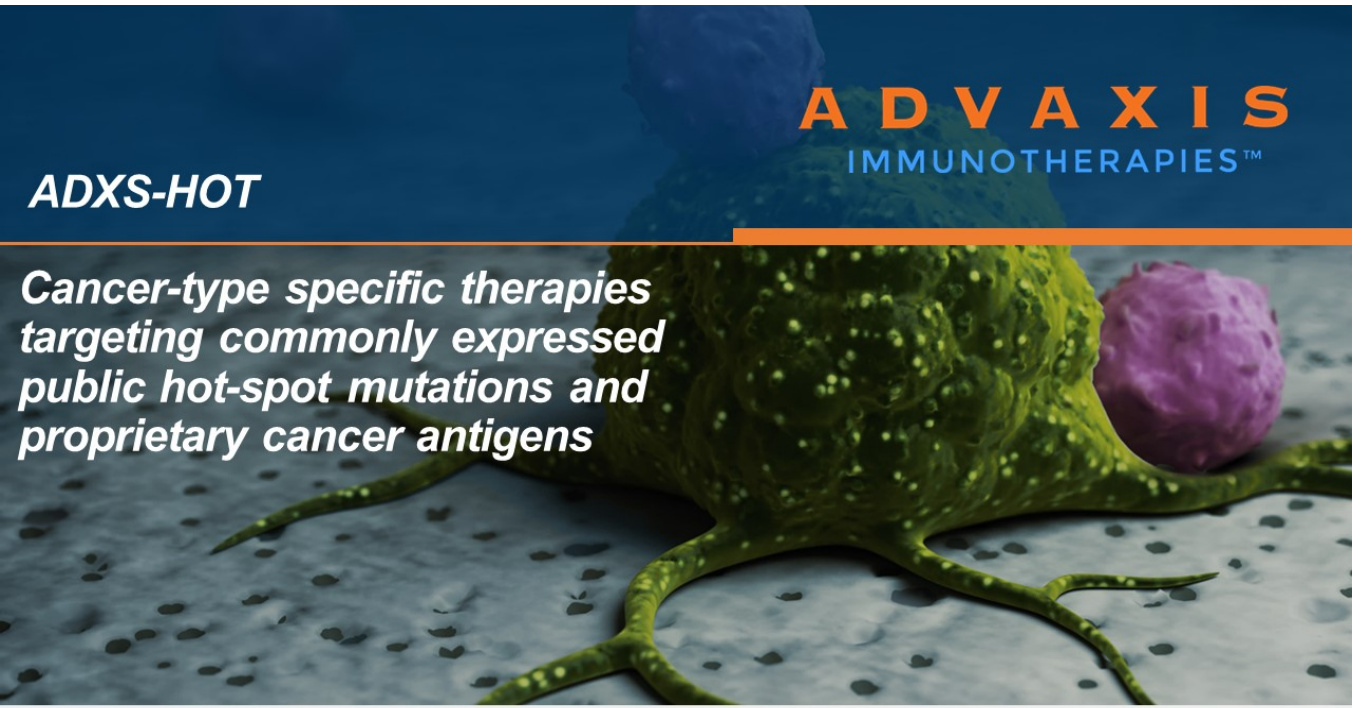
##### Exploratory

Immunological



**ADXS-HOT**

***Cancer-type specific therapies  
targeting commonly expressed  
public hot-spot mutations and  
proprietary cancer antigens***





# ADXS-HOT Cancer-Type Specific Approach

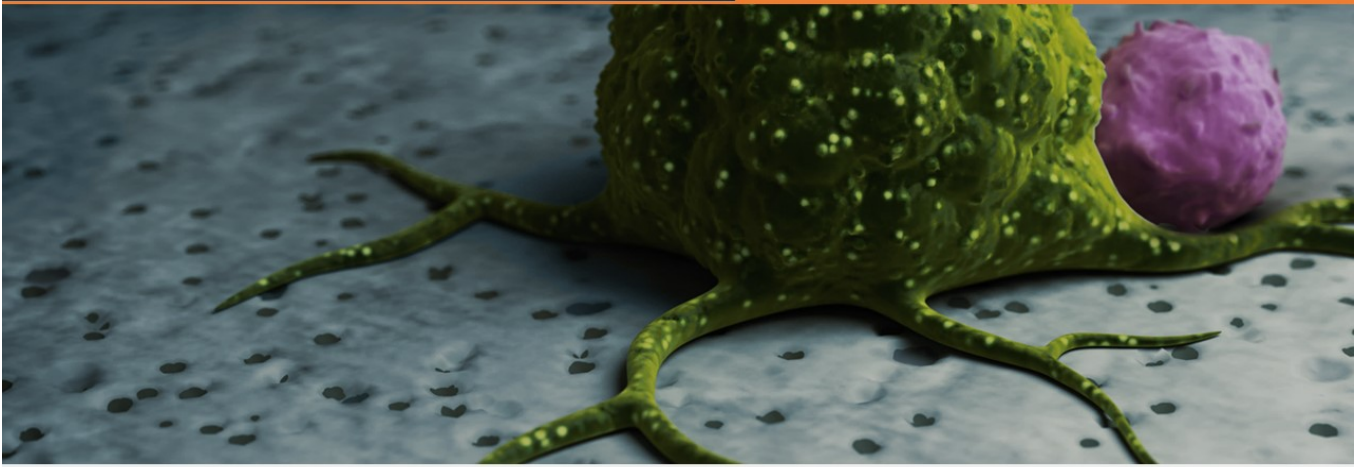
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- ADXS-HOT constructs target both public, or shared, hotspot neoantigens and multiple proprietary tumor associated antigen targets such as oncofetal antigens (OFAs) and cancer testis antigens (CTAs), providing broad patient coverage in most common tumor types
  - Hotspots are somatic mutations frequently observed in multiple patients, often in tumor driver genes contributing to oncogenesis
  - Many OFA/CTAs have primary roles in oncogenesis
  - Because of OFA/CTAs highly restricted tissue expression in cancer, they are attractive targets for immunotherapy
- ADXS-HOT constructs can include over 30 targets allowing for multiple shots on goal to control the tumor

# ADXS-HOT Program Overview

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- Multiple high-value product opportunities
  - HOT products are cancer type specific
  - Lead products identified (NSCLC, prostate)
  - Over 10 constructs identified to-date
  - Exclusivity anticipated through 2037
- HOT constructs impact innate immunity, adaptive immunity and changes to the TME
- HOT product candidates contain a broad range of antigen targets making them suitable for all patients with a given tumor type; no personalization is required
- Off-the-shelf treatment; favorable cost of goods
- Approximately 2 months from concept to clinic
- First IND submitted for ADXS-503 (NSCLC); prostate IND to be submitted by end of 2018; 2 additional by end of 2019 selected from breast, colorectal, bladder, ovarian, head-and-neck cancers



- Own or have rights to over 400 patents and applications
- Filing strategy provides for broad coverage opportunities across **multiple disease platforms and combination therapies**
- Multiple provisional applications submitted
  - Claims directed to composition of matter and methods
- IP portfolio includes patents and patent applications related to:
  - **Proprietary *Lm* Technology constructs** for multiple cancer indications:  
(Prostate, lung, pancreatic, bladder, breast, CRC, ovarian)
  - **Proprietary targets** engineered for shared **hotspot mutations** across various malignancies
  - **Proprietary targets** optimized for **tumor specificity, antigen** expression and **reactivity** with tumor-associated antigens
- Earliest patent coverage on platform *Lm* Technology will expire ≈ 2029

Program	Partner	Description
AXAL (axalimogene filolisbac)	Actively seeking partner for cervical cancer program	US and Europe development and commercial rights
ADX-PSA	 MERCK	Clinical collaboration with Keytruda
ADX-NEO	 AMGEN	Global license agreement
ADX-HOT	In discussions with multiple parties	
ADX-HER2	 ARATANA <small>THE CANINE VET</small>	Veterinary rights; US approval for canine osteosarcoma

- 52.6 million shares outstanding, 61.4 million, fully diluted
  - 3.1 million warrants outstanding at an exercise price of \$5.00, expiring in Oct '18
- Cash on hand: \$58.8 million as of April 30, 2018 (no debt)
- Reduced cash burn in June 2018 to ~\$50M/year

# Executive Management Team



**Kenneth A. Berlin**

Chief Executive Officer

ROSETTAGENOMICS™

Ortho  
Clinical Diagnostics

VERIDEX

Johnson & Johnson



**Robert Petit**

Chief Scientific Officer

Bracco  
Mylan  
Sandoz  
Company

PHARMACIA

MGI

AESGEN



**Dr. Andres Gutierrez**

Chief Medical Officer

ONCOLYTICS

Bracco  
Mylan  
Sandoz  
Company

ELLAS  
HEALTHCARE GROUP

SUNOVION

PROTEOLIX

BIOMARIN



**Molly Henderson**

Chief Financial Officer

IOVANCE

VIRTUALSCOPES

PROTEOMICS CENTERS

# Multiple Milestones Over Next 18 Months

PROGRAM	MILESTONE	TARGET / STATUS
ADXS-HPV (axalimogene filolisbac)	<ul style="list-style-type: none"> <li>Announce planned IST in Head and Neck Cancer</li> </ul>	2018
ADXS-PSA	<ul style="list-style-type: none"> <li>Metastatic Prostate Ph1/2 Combination with pembrolizumab</li> <li>Part B Monotherapy Combination Therapy Data (12-mo PFS and OS)</li> </ul>	Q1 2019
ADXS-NEO	<ul style="list-style-type: none"> <li>Ph 1 clinical trial in MSS-CRC, H&amp;N and NSCLC</li> <li>First patient treated</li> <li>Clinical data from initial cohort (safety, immunological, early signals of efficacy)</li> </ul>	June 2018 2019
ADXS-HOT NSCLC	<ul style="list-style-type: none"> <li>IND Filing</li> <li>First in Human</li> </ul>	Submitted July 2018 End 2018
ADXS-HOT Prostate	<ul style="list-style-type: none"> <li>IND Filing</li> </ul>	Submitted by End 2018
ADXS-HOT Other	<ul style="list-style-type: none"> <li>2 additional IND Filings</li> <li>Selected from Breast, bladder, ovarian, MSS-CRC, H&amp;N</li> </ul>	By End 2019



- Redefined company focus on high-value assets by streamlining the HPV program
  - Seeking partner for AXAL in cervical cancer in the US and Europe
  - Discussing IST opportunity for AXAL in HPV+ head-and-neck cancer
- Positioning the company for success in the neoantigen field
  - NEO:
    - First patient dosed in June 2018
    - Amgen partnership
  - HOT:
    - First IND submitted in June 2018 (NSCLC); second to be submitted by end 2018 (prostate)
    - 2 additional INDs planned by end of 2019, selected from breast, colorectal, bladder, ovarian, head-and-neck cancers
- Initiated plans to reduce cash burn by over 38% to approximately \$50 million annually
  - Wind-down and/or partnering of non-focus programs
  - Reductions in headcount: 24% of work force
- Experienced executive team in place

A 3D rendered image of a large, green, textured cell with several thin, green, tentacle-like protrusions extending from its base. Two smaller, purple, textured spheres are positioned near the top of the main cell. The background is a dark blue surface with a pattern of small, light blue dots.

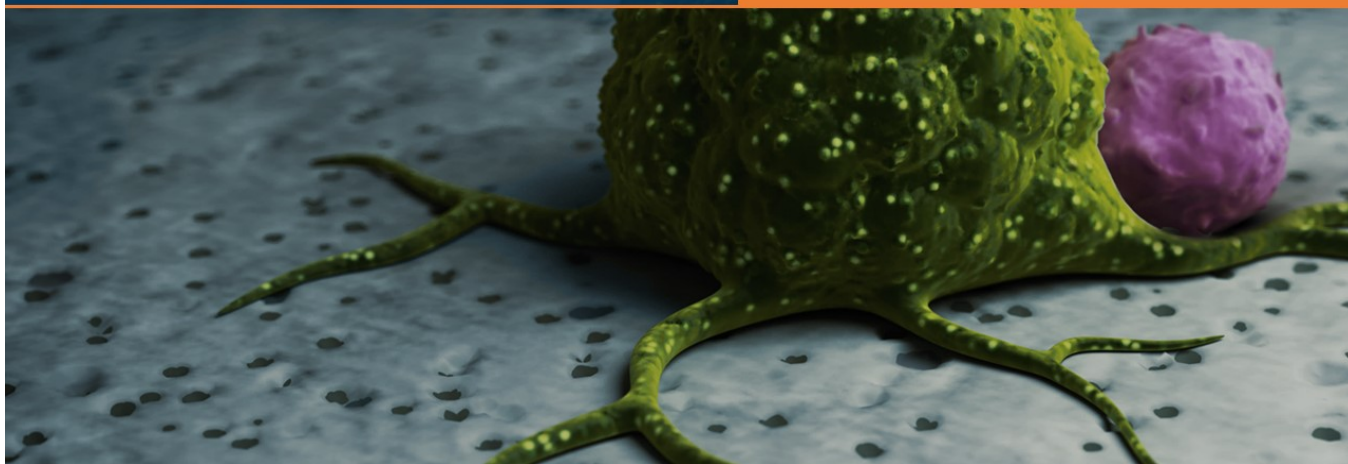
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**Thank you**

**Nasdaq: ADXS**

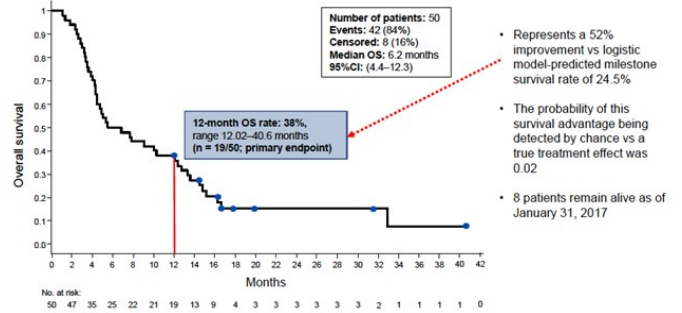


## Demonstrated efficacy in proof-of-concept clinical trials in HPV-associated cancer

- 3** HPV-associated cancers studied: cervical cancer, anal cancer, and head and neck cancer<sup>1</sup>
- 5** Phase 2 trials<sup>1,2</sup>
- 2** Registration phase 3 trials<sup>1</sup>
- >250** Patients enrolled/planned in phase 2 trials<sup>1</sup>

### GOG-0265: Unprecedented improvement of survival rates in recurrent/metastatic cervical cancer<sup>3</sup>

#### 12-month and median overall survival



1. [www.clinicaltrials.gov](http://www.clinicaltrials.gov); registrational trial of AXAL + Opdivo in metastatic cervical cancer planned for 1H 2018  
 2. Herzog T, et al. Presented at the Annual Meeting of Society for Immunotherapy in Cancer, November 9-13, 2016, Washington DC, Poster 145.  
 3. Huh W, et al. Presented at the Annual Meeting on Women's Cancer, March 12-15, 2017.

# Safety Profile of ADXS11-001

The largest clinical experience with *Lm*-based immunotherapies, is in 434 subjects treated with ADXS11-001, of which 192 are monotherapy

Treatment-related AEs (TRAEs) across clinical trials are mostly Grade 1 and 2, manageable and reversible

Further information available in the ADXS11-001 IB V15.

System Organ Class Preferred Term	n (%) Adverse Events (N=192) <sup>a</sup>	
	All Grades	Grade 3 or 4
<b>Cardiac disorders</b>		
Tachycardia	15 (7.8%)	0
<b>Gastrointestinal disorders</b>		
Diarrhoea	10 (5.2%)	1 (0.5%)
Nausea	54 (28.1%)	0
Vomiting	48 (25.0%)	1 (0.5%)
<b>General disorders and administration site conditions</b>		
Chills	91 (47.4%)	0
Influenza like illness	11 (5.7%)	0
Pain	10 (5.2%)	0
Pyrexia	70 (36.5%)	3 (1.6%)
<b>Immune system disorders</b>		
Cytokine release syndrome	15 (7.8%)	7 (3.6%)
<b>Investigations</b>		
Aspartate aminotransferase increased	13 (6.8%)	0
Blood alkaline phosphatase increased	11 (5.7%)	2 (1.0%)
Gamma-glutamyltransferase increased	15 (7.8%)	3 (1.6%)
<b>Metabolism and nutrition disorders</b>		
Decreased appetite	10 (5.2%)	0
<b>Musculoskeletal and connective tissue disorders</b>		
Back pain	12 (6.3%)	0
Myalgia	12 (6.3%)	0
<b>Nervous system disorders</b>		
Dizziness	14 (7.3%)	0
Headache	41 (21.4%)	0
<b>Vascular disorders</b>		
Hypotension	46 (24.0%)	12 (6.3%)

<sup>a</sup> Subjects who were dosed on or before 22 Dec 2017, including 24 subjects from study ADXS001-02 which had a 2:1 randomization between ADXS11-001 and placebo.

Note: Adverse events with onset on or before 22 Dec 2017 are included.



## Robust technology platform that has unique attributes<sup>1</sup>

Feature	Characteristics	Potential Competitive Advantages
<b><i>Lm</i> Attributes<sup>2</sup></b>	<ul style="list-style-type: none"> <li>• Access multiple I/O pathways including innate immune stimulation, T cell generation, and suppression of TME</li> <li>• Safety profile: Generally well tolerated across 500+ patients</li> <li>• Anti-cancer potential 2 demonstrated in clinical studies</li> </ul>	<ul style="list-style-type: none"> <li>✓ Unique validated delivery technology</li> <li>✓ Versatile backbone across platforms from oncogenes to neoantigens</li> </ul>
<b>Flexibility / Capacity</b>	<ul style="list-style-type: none"> <li>• Able to target a large variety of tumor types</li> <li>• High capacity vector able to deliver large payload of antigens</li> </ul>	<ul style="list-style-type: none"> <li>✓ Wide range of clinical applications across oncology</li> </ul>
<b>Synergy with Other Mechanisms</b>	<ul style="list-style-type: none"> <li>• Checkpoint inhibitors, co-stimulatory agonists, radiation therapy, and others – demonstrated in preclinical models</li> <li>• Multiple ongoing clinical studies in combination with checkpoints</li> </ul>	<ul style="list-style-type: none"> <li>✓ Various label opportunities within a given indication</li> <li>✓ Potential for commercial partnerships</li> <li>✓ Potential to increase patient benefit</li> </ul>
<b>Mechanistic Effects</b>	<ul style="list-style-type: none"> <li>• “Built-in” adjuvants: Trigger multiple adjuvant pathways in the target immune compartments (e.g., T cell priming, destruction and disablement of Tregs and MDSCs)</li> </ul>	<ul style="list-style-type: none"> <li>✓ High performing internal adjuvant</li> <li>✓ Avoids cost and development risk of separate adjuvants</li> </ul>
<b>Applicability</b>	<ul style="list-style-type: none"> <li>• Repeat dosing possible</li> <li>• No generation of neutralizing antibodies due to unique intracellular lifecycle of listeria</li> </ul>	<ul style="list-style-type: none"> <li>✓ Enables repeat dosing – desirable in oncology</li> <li>✓ Viral vectors generate neutralizing antibodies</li> </ul>

<sup>1</sup> Attributes are based on preclinical and clinical experience, to date

<sup>2</sup> References: High dose study, NCR1 2016 Liverpool UK; Medi combo study, SITC 2016, Nat Harbor, MD; GOG 265 study, SGO 2017, Nat Harbor, MD; BrUOG Anal Cancer IST, ASCO 2017, Chicago Ill; Fawcett study, ESMO 2017, Madrid, Spain; GOG biomarker study, ESGO 2017, Vienna Austria; ADXS-PSA study immune correlatives, CRI AACR 2017, Mainz Germany; ADXS-PSA study-immune correlatives SITC 2017, Nat Harbor, 2017; ADXS-PSA clinical data, ASCO 2018, Chicago Ill; Basu et.al., ADXS11-001 in mCC, Int J Gynecological Cancer, 2018, 4:765-772.

*"Targeting frameshift mutations with a Listeria monocytogenes immunotherapy drives neoantigen-specific anti-tumor immunity in the MC38 and CT26 mouse tumor models"*

## Context:

- Frameshift mutations are estimated to generate up to nine times more neoantigens per mutation compared with in-frame mutations<sup>1</sup>
- Among neoantigen companies, only our *Lm* platform can accommodate full length frameshifts (>90 amino acids)

## Result:

- Advaxis' *Lm* platform has the *capacity to express and target frameshift mutations ≥150 amino acids* and generate multiple neoantigen-specific T cells per frameshift
- ADXS-NEO immunotherapy platform is a *potent inhibitor of the suppressive TME* by reducing numbers and suppressive phenotype of Tregs, MDSCs and TAMs
- ADXS-NEO can *control tumor growth* and *generate multiple neoantigen-specific CD8+ T cells* against frameshift mutations detected using whole exome sequencing

Our *Lm* platform is the only neoantigen asset with the bandwidth to target large frameshift mutations

Presented at AACR 2018 by Coder et al.  
1. Turjatic S. Insertion-and-deletion-derived tumour-specific neoantigens and the immunogenic phenotype: a pan-cancer analysis. *Lancet Oncol.* 2017 Aug;19(8):1009-1021. doi: 10.1016/S1470-2045(17)30516-6. Epub 2017 Jul 7

*"Targeting Shared Hotspot Cancer Mutations with a Listeria monocytogenes Immunotherapy Induce Potent Anti-Tumor Immunity"*

## Objective:

- To identify and target common hotspot mutations and to determine if the ADXS-HOT platform could effectively target those hotspots and control tumor growth

## Results:

- ADXS-HOT *enhanced antitumor efficacy* and *improved long-term survival*
- ADXS-HOT therapy *increased tumor-specific T cells* and significantly *decreased tumor-resident Tregs*

ADXS-HOT will move into the clinic in 2018 in NSCLC, with a total of four INDs in 2019 selected from among the following six tumor types: prostate, breast, colorectal, bladder, ovarian and head-and-neck cancers



## Other Data Presented at AACR 2018

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*Data shows that the Advaxis Lm-based immunotherapy platform continues to be a versatile and promising approach to treating cancer*

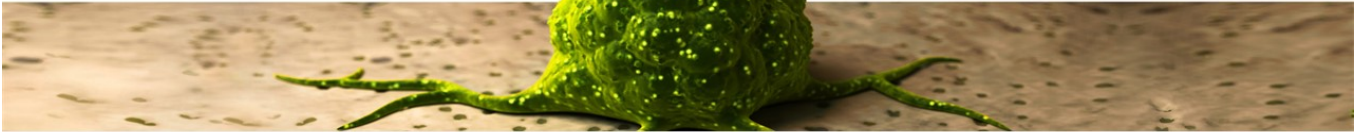
- **Poster 1:** *Neoantigens that fail to elicit measurable T cell responses following peptide immunization can control tumor growth when delivered using a Listeria-based immunotherapy platform*
  - Conclusion: Data suggest that neoantigen expression using the *Lm*-based ADXS-NEO vectors may increase the ability to generate tumor controlling T cell responses at a greater level compared to adjuvant-peptide vaccination of the same neoantigens.
- **Poster 2:** *Targeting frameshift mutations with a Listeria monocytogenes immunotherapy drives neoantigen specific antitumor immunity in the MC38 and CT26 mouse tumor models*
  - Conclusion: The results of the study show that *Lm*-based ADXS-NEO vectors induce potent immune responses against tumor-specific frameshift mutations and control tumor growth

#### What is a “Hotspot” mutation?<sup>1,2</sup>

- Hotspots are somatic mutations frequently observed in multiple patients, often in tumor driver genes contributing to oncogenesis
- Genetic profiling of tumors has produced valuable insights into the hotspots observed in many different cancer types
- These hotspot mutations represent a source of “shared” or “common” neoantigens
- Hotspot targets in ADXS-SHOT constructs are designed to generate epitopes to virtually any of the 12,500+ identified HLA Class I alleles and are prioritized agnostic to *in silico* algorithms<sup>4</sup>

#### What are OFA/CTAs?

- OFA/CTAs are expressed in up to 100% of patients within a cancer indication but are not expressed in healthy tissue of adult cancer patients (normally expressed only in embryonic tissues)
- Many OFA/CTAs have primary roles in oncogenesis
- Because of OFA/CTAs highly restricted tissue expression in cancer, they are attractive targets for immunotherapy



30 1. Garraway, L.A. & Lander, E.S. Lessons from the cancer genome. *Cell* 153, 17–37 (2013). 2. Vogelstein, B. et al. Cancer genome landscapes. *Science* 339, 1546–1558 (2013). 3. Chang et al. Identifying recurrent mutations in cancer reveals widespread lineage diversity and mutational specificity. *Nature Biotechnology* 34, 155–163 (2016). 4. Editorial. The Problem with neoantigen prediction. *Nature Biotechnology* 35, 97 (2017)

