### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### FORM 8-K

#### **CURRENT REPORT** PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): October 28, 2017

# **DELMAR PHARMACEUTICALS, INC.**

(Exact name of registrant as specified in its charter)

Nevada

000-54801

99-0360497

(State or Other Jurisdiction of Incorporation)

(Commission File Number)

(I.R.S. Employer Identification Number)

Suite 720-999 West Broadway Vancouver, British Columbia Canada V5Z 1K5 (Address of principal executive offices)

(604) 629-5989

(Registrant's telephone number, including area code)

Copies to: Gregory Sichenzia, Esq. Jeff Cahlon, Esq. Sichenzia Ross Ference Kesner LLP 1185 Avenue of the Americas, 37<sup>th</sup> Floor New York, New York 10036 Phone: (212) 930-9700 Fax: (212) 930-9725

(Former address, if changed since last report)

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 (see General Instruction A.2. below):

□ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

□ Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

□ Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

□ Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933(17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company  $\Box$ 

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.

#### Item 8.01 Other Events.

On October 28, 2017, DelMar Pharmaceuticals, Inc. presented a poster at the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics in Philadelphia. A copy of the poster is attached as Exhibit 99.1 hereto.

#### Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

#### **Exhibit Number Description**

99.1 Poster

#### SIGNATURES

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

## DELMAR PHARMACEUTICALS, INC.

By:

/s/ Jeffrey Bacha Name: Jeffrey Bacha Title: Chief Executive Officer

Dated: October 31, 2017



## BACKGROUND

DNA damage repair (DDR) describes the network of pathways that are responsible for minimizing the effect of daily DNA damage such as mismatched base pairs, single strand breaks (SSBs) and double strand breaks (DSBs). Multiple DNA repair pathways are known, including mismatch repair (MMR), O6-methylguanine DNA methyltransferase (MGMT), non-homologous end joining (NHEJ) and homologous recombination (HR), which act either by repairing the damage, arresting cell growth or, if necessary, promoting cell death. DDR defects are a hallmark of cancer development, rendering the cancer cells sensitive to targeted DNA damaging agents.

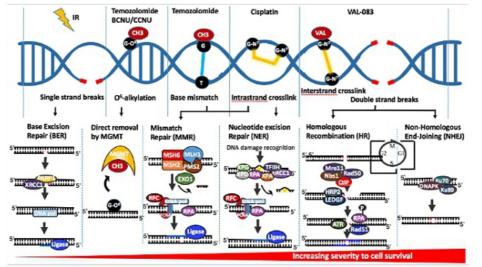


FIGURE 1. DNA damage and damage repair pathways.

# VAL-083 is a DNA-targeting agent with a unique mechanism of action and established clinical efficacy and safety

VAL-083 (dianhydrogalactitol) is a first-in-class, bi-functional DNA-targeting agent, with a mechanism of action that differs from other DNA-targeting agents.<sup>1</sup> VAL-083 introduces irreversible DNA interstrand crosslinks (ICLs) at the N<sup>7</sup>-position of guanine throughout the cell cycle, leading to persistent DNA DSBs and cancer cell death. The DNA DSBs, which form during the S phase, persists for 24-72h after VAL-083 pulse treatment, ultimately leading to S/G2 phase cell cycle arrest and cell death through two parallel pathways: **p53-dependent** and **p53-independent**<sup>2</sup> (Figure 2).

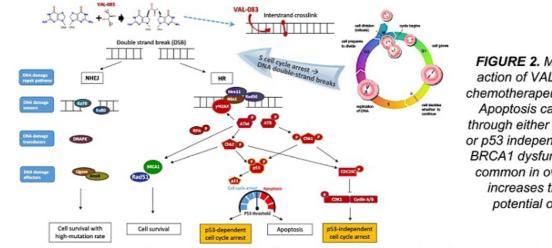


FIGURE 2. Mechanisms of action of VAL-083 induced chemotherapeutic cytotoxicity. Apoptosis can be induced through either p53 dependent or p53 independent pathways. BRCA1 dysfunction, which is common in ovarian cancer, increases the cytotoxic potential of VAL-083.

This unique mechanism of action suggests that VAL-083 may be efficacious in treating patients whose tumors are refractory to current standard of care chemotherapeutics, including Pt-based and alkylating agents, either as a single agent or as a component of combination therapy regimens.

References				
1. Zhai B, et al. Cancer Res. July 2017: 77(13)	, abstract #2483.	3.	Zhai B, et al. EORTC-NCI-AACR Annual Meeting, 2016. #363	
2. Peng C, et al. Acta Pharmacol Sin. 2017 Ap	r;38(4):561-570.	4.	Bacha J, et al. AACR Ovarian Meeting, Oct 1-4, 2017. #A01	

