

December 17, 2019



Aptose Announces Pricing of Public Offering of Common Shares

SAN DIEGO and TORONTO, Dec. 17, 2019 (GLOBE NEWSWIRE) -- Aptose Biosciences Inc. ("Aptose" or the "Company") (NASDAQ: APTO, TSX: APS), today announced that it priced its previously announced underwritten public offering of 16,125,000 common shares (the "Offering") at a price of US\$4.00 per share. Gross proceeds from the Offering, before deducting underwriting discounts and commissions and estimated offering expenses payable by Aptose, are expected to be approximately US\$64.5 million. The underwriters have been granted a 30-day option to purchase up to an additional 2,418,750 common shares in the Offering, under the same terms and conditions.

Aptose intends to use all or a portion of the net proceeds to (i) accelerate and expand clinical trials for CG-806; (ii) accelerate and expand its clinical trials for APTO-253; (iii) acquire and fund (including through partnerships and in-licensing) additional clinical assets; and (iv) for working capital and general corporate purposes relating to (i), (ii) or (iii) above.

Piper Jaffray & Co. is acting as the sole active book-running manager and Canaccord Genuity is acting as passive book-running manager for the Offering. Oppenheimer & Co. is acting as lead manager and JonesTrading Institutional Services LLC is acting as co-manager for the Offering. The Offering is expected to close on or about December 19, 2019, subject to customary closing conditions.

No common shares will be offered or sold in Canada as part of this Offering. The Offering is subject to the approval of the Toronto Stock Exchange ("TSX") and Nasdaq. For the purposes of TSX approval, the Company is relying on the exemption set forth in Section 602.1 of the TSX Company Manual, which provides that the TSX will not apply its standards to certain transactions involving eligible interlisted issuers on a recognized exchange, such as Nasdaq.

The securities described above are being offered by Aptose pursuant to a shelf registration statement on Form S-3 (File. No. 333-230218), including a base prospectus, that was previously filed by Aptose with the Securities and Exchange Commission ("SEC") and declared effective on April 25, 2019. The offering is being made only by means of a written prospectus and prospectus supplement that form a part of the registration statement. Before you invest, you should read the prospectus supplement and the accompanying prospectus and other documents the Company has filed with the SEC for more complete information about the Company and this offering. You may get these documents for free by visiting EDGAR on the SEC Web site at www.sec.gov. Alternatively, copies of the prospectus supplement and the accompanying prospectus may be obtained, once available, from Piper Jaffray & Co., Attention: Prospectus Department, 800 Nicollet Mall, J12S03, Minneapolis, MN 55402, by email at prospectus@pjc.com or by phone: 1-800-747-3924.

To facilitate this offering, on December 16, 2019, Aptose, Piper Jaffray & Co. and Canaccord

Genuity LLC mutually entered into a Termination and Waiver Agreement, dated December 16, 2019, pursuant to which the Equity Distribution Agreement between Aptose and Piper Jaffray & Co. and Canaccord Genuity LLC, as co-placement agents, dated May 24, 2019 (the "Equity Distribution Agreement") was terminated. Aptose is no longer offering any securities pursuant to the prospectus supplement filed with the Securities and Exchange Commission on May 24, 2019 relating to the offer and sale of its common shares pursuant to the Equity Distribution Agreement. Aptose has also mutually, with Aspire Capital Fund, LLC, agreed to terminate, pursuant to a Mutual Termination Agreement, dated December 16, 2019, the Common Share Purchase Agreement with Aspire Capital Fund, LLC, dated May 7, 2019 (the "Aspire Agreement"). Pursuant to the Aspire Agreement, Aspire Capital Fund, LLC had committed to purchase up to \$20,000,000 of Aptose common shares from time to time for up to 30 months. Accordingly, as Aptose has terminated the Aspire Agreement, Aptose is no longer offering any securities pursuant to the prospectus supplement filed with the Securities and Exchange Commission on May 13, 2019.

This press release does not constitute an offer to sell or the solicitation of offers to buy any securities of Aptose, and shall not constitute an offer, solicitation or sale of any security in any state or jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

About Aptose

Aptose Biosciences is a clinical-stage biotechnology company committed to developing personalized therapies addressing unmet medical needs in oncology, with an initial focus on hematology. The Company's small molecule cancer therapeutics pipeline includes products designed to provide single agent efficacy and to enhance the efficacy of other anti-cancer therapies and regimens without overlapping toxicities. The Company has two clinical-stage investigational products for hematologic malignancies: CG-806, an oral, first-in-class mutation-agnostic FLT3/BTK kinase inhibitor, is in a Phase 1 trial in patients with relapsed or refractory B cell malignancies, including chronic lymphocytic leukemia (CLL), small lymphocytic lymphoma (SLL) and non-Hodgkin lymphoma (NHL), who have failed or are intolerant to standard therapies; APTO-253, the only clinical stage agent that directly targets the MYC oncogene and inhibits its expression, is in a Phase 1b clinical trial for the treatment of patients with relapsed or refractory acute myeloid leukemia (AML) or high risk myelodysplastic syndrome (MDS).

Forward Looking Statements

This press release contains forward-looking statements within the meaning of Canadian and U.S. securities laws, including, but not limited to, statements relating to the Company's plans, objectives, expectations and intentions, including with respect to the Offering and on the intended use of proceeds of the Offering, and other statements including words such as "continue", "expect", "intend", "will", "should", "would", "may", "potential" and other similar expressions. Such statements reflect our current views with respect to future events and are subject to risks and uncertainties and are necessarily based upon a number of estimates and assumptions that, while considered reasonable by us are inherently subject to significant business, economic, competitive, political and social uncertainties and contingencies. These risks and uncertainties include, among others: whether or not we will be able to raise capital through the sale of common shares or consummate the Offering, the Company's ability to satisfy the closing conditions of the Offering, the timing or occurrence of

the closing, prevailing market conditions, the anticipated use of the proceeds of the Offering which could change as a result of market conditions or for other reasons; and other risks detailed from time-to-time in our ongoing quarterly filings, annual information forms, annual reports and annual filings with Canadian securities regulators and the United States Securities and Exchange Commission.

Should one or more of these risks or uncertainties materialize, or should the assumptions set out in the section entitled "Risk Factors" in our filings with Canadian securities regulators and the United States Securities and Exchange Commission underlying those forward-looking statements prove incorrect, actual results may vary materially from those described herein. These forward-looking statements are made as of the date of this press release and we do not intend, and do not assume any obligation, to update these forward-looking statements, except as required by law. We cannot assure you that such statements will prove to be accurate as actual results and future events could differ materially from those anticipated in such statements. Investors are cautioned that forward-looking statements are not guarantees of future performance and accordingly investors are cautioned not to put undue reliance on forward-looking statements due to the inherent uncertainty therein.

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