



January 20, 2017

Stemline Therapeutics Prices \$45 Million Public Offering of Common Stock

NEW YORK, Jan. 20, 2017 (GLOBE NEWSWIRE) -- **Stemline Therapeutics, Inc.** (Nasdaq:STML), a clinical-stage biopharmaceutical company developing novel oncology therapeutics, today announced the pricing of an underwritten public offering of 4.5 million shares of its common stock at a price of \$10.00 per share, with expected gross proceeds to Stemline of \$45 million. In addition, Stemline has granted the underwriters a 30-day option to purchase up to 675,000 additional shares of common stock at the public offering price, less underwriting discounts and commissions. The offering is expected to close on January 25, 2017, subject to customary closing conditions.

Jefferies LLC and Cowen and Company, LLC are acting as joint book-running managers for the offering. Ladenburg Thalmann & Co. Inc. and H.C. Wainwright & Co. are acting as co-lead managers and Roth Capital Partners, Joseph Gunnar & Co., LLC and Aegis Capital Corp. are acting as co-managers for the offering.

Stemline intends to use the net proceeds from the public offering for (i) clinical, regulatory, manufacturing and, if and when approved, potential commercial activities of SL-401; (ii) clinical development of SL-801 and SL-701; (iii) research and development activities; and (iv) other general corporate purposes.

The offering is being made by Stemline pursuant to a shelf registration statement on Form S-3 previously filed with the Securities Exchange Commission (the "SEC") on February 3, 2014 and declared effective by the SEC on February 12, 2014. The offering is being made only by means of a written prospectus and prospectus supplement that form a part of the registration statement. A preliminary prospectus supplement and accompanying prospectus related to the offering has been filed with the SEC and is available on the website of the SEC at www.sec.gov. When available, copies of the final prospectus supplement and accompanying prospectus may be obtained from Jefferies LLC, Attn: Equity Syndicate Prospectus Department, 520 Madison Ave, 2nd Floor, New York, NY 10022, by telephone at (877) 821-7388 or by email at Prospectus_Department@Jefferies.com or Cowen and Company, LLC, c/o Broadridge Financial Services, 1155 Long Island Avenue, Edgewood, NY, 11717, Attention: Prospectus Department, or by telephone at 631-274-2806, or by faxing 631-254-7140.

This press release shall not constitute an offer to sell, or a solicitation of an offer to buy, nor shall there be any sale of these securities in any state or jurisdiction in which such an offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state or jurisdiction.

About Stemline Therapeutics

Stemline Therapeutics, Inc. is a clinical stage biopharmaceutical company developing novel oncology therapeutics. Stemline is developing three clinical stage product candidates, SL-401, SL-801, and SL-701. SL-401 is a targeted therapy directed to the interleukin-3 receptor (CD123) present on a wide range of malignancies. SL-401 is being advanced through a pivotal Phase 2 program in patients with blastic plasmacytoid dendritic cell neoplasm (BPDCN), an indication for which SL-401 has been granted Breakthrough Therapy Designation (BTD) by the FDA. SL-401 has demonstrated high overall response rates (ORR), with multiple complete responses (CRs), in both first-line and relapsed/refractory patients, and treatment duration and frequency of bridge to transplant have been trending favorably. SL-401 is also being advanced through Phase 1/2 trials of patients with additional malignancies including acute myeloid leukemia (AML) in remission with minimal residual disease (MRD), high-risk myeloproliferative neoplasms (MPN), and relapsed/refractory multiple myeloma (in combination with pomalidomide). SL-801 is a novel oral small molecule reversible inhibitor of XPO1 that has demonstrated broad *in vivo* and *in vitro* preclinical activity in a wide array of solid and hematologic malignancies. A Phase 1 trial with SL-801 is open and enrolling patients with advanced solid tumors, and a Phase 1 trial in hematologic malignancies is planned. SL-701 is an immunotherapy designed to activate the immune system to attack tumors. A Phase 2 trial with SL-701 in adult patients with second-line glioblastoma multiforme (GBM) is ongoing.

Forward-Looking Statements

Some of the statements included in this press release may be forward-looking statements that involve a number of risks and uncertainties. For those statements, we claim the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995. The factors that could cause our actual results to differ materially include: statements regarding the proposed public offering and the intended use of proceeds from the proposed offering; the success and timing of our clinical trials and preclinical studies for our product candidates, including site initiation,

internal review board approval, scientific review committee approval, patient accrual, safety, tolerability and efficacy data observed, and input from regulatory authorities; our plans to develop and commercialize our product candidates; market acceptance of our products; reimbursement available for our products; our available cash and investments; our ability to obtain and maintain intellectual property protection for our product candidates; our ability to manufacture; the performance of third-party manufacturers, clinical research organizations, clinical trial sponsors and clinical trial investigators; and other risk factors identified from time to time in our reports filed with the Securities and Exchange Commission. Any forward-looking statements set forth in this press release speak only as of the date of this press release. We do not intend to update any of these forward-looking statements to reflect events or circumstances that occur after the date hereof.

Contact

Investor Relations
Stemline Therapeutics, Inc.
750 Lexington Avenue
Eleventh Floor
New York, NY 10022
Tel: 646-502-2307
Email: investorrelations@stemline.com