



Contacts: Matthew Krieger
Ruder Finn
+972 54-467-6950

PLURISTEM ANNOUNCES PROPOSED PUBLIC OFFERING OF COMMON STOCK AND WARRANTS TO PURCHASE COMMON STOCK

Haifa, Israel – January 26, 2011 – Pluristem Therapeutics Inc. (NASDAQ: PSTI, TASE: PLTR) announced today that it intends, subject to market and other conditions, to offer its common stock and warrants to purchase its common stock in a registered public offering pursuant to its existing shelf registration statement under the Securities Act of 1933, as amended. Pluristem also intends to grant the underwriters of the offering an option to purchase additional shares of common stock and warrants to cover over-allotments, if any. Pluristem plans to use the proceeds from the offering to conduct clinical trials, research and product development activities and for general corporate purposes, including general working capital purposes. Oppenheimer & Co. Inc. is acting as the sole bookrunner and Needham & Company, LLC is acting as co-lead manager for the offering.

The securities described above are being offered by Pluristem pursuant to a “shelf” registration statement previously filed with and declared effective by the Securities and Exchange Commission (SEC) on January 11, 2011. A prospectus supplement and an accompanying prospectus will be filed with the SEC in connection with the offering. Once filed, the prospectus supplement and accompanying prospectus may be obtained by sending a request to Oppenheimer & Co. Inc., Attention: Syndicate Prospectus Department, 300 Madison Avenue, 4th Floor, New York, NY, 10017, Telephone number: (212) 667-8563, Email: EquityProspectus@opco.com. Before you invest, you should read the prospectus supplement and accompanying prospectus, the registration statement, and the other documents that the Company has filed with the SEC for more complete information about the Company and this offering. Investors may obtain these documents for free by visiting the SEC's website at www.sec.gov.

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 Pluristem Therapeutics Inc.:

Pluristem Therapeutics, is a bio-therapeutics company dedicated to the commercialization of non-personalized (allogeneic) cell therapy products for the treatment of several severe degenerative, ischemic and autoimmune disorders.

This news release contains certain statements of a forward-looking nature relating to future events or future business performance. Any such statements, including, but not limited to, Pluristem's expectations regarding the completion, timing and size of its proposed public offering, whether expressed or implied, are subject to risks and uncertainties which can cause actual results to differ materially from those currently anticipated due to a number of factors which include, but are not limited to, risks and uncertainties associated with market conditions and the satisfaction of customary closing conditions related to the proposed offering, and other risk factors discussed in the company's Form 10-K and other documents filed with the Securities and Exchange Commission from time to time. These forward-looking statements represent the company's judgment as of the date of this news release. The company disclaims any intent or obligation to update these forward-looking statements.

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