

CELL THERAPEUTICS INC  
Form 424B5  
December 21, 2007  
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Filed Pursuant to Rule 424(b)(5)

File No. 333-143452

**PROSPECTUS SUPPLEMENT**

(to Prospectus dated June 15, 2007)

**CELL THERAPEUTICS, INC.**

**3,469,999 Shares of Common Stock**

**Warrants to Purchase 3,469,999 Shares of Common Stock**

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We are offering 3,469,999 shares of common stock and warrants to purchase up to 3,469,999 shares of our common stock and up to 3,469,999 shares of our common stock issuable upon exercise of the warrants. We will sell our common stock and warrants to investors at the negotiated price of \$2.02 per share of common stock, and each purchaser will receive a warrant to purchase common stock equal to the same number of shares purchased. Each warrant to purchase shares of our common stock will have an exercise price of \$2.02 per share. The warrants are not exercisable for six months from the date of issuance and their exercisability is contingent upon the Company obtaining shareholder approval to increase the number of authorized shares of common stock available for issuance.

For a more detailed description of our warrants, see the section entitled "Description of Warrants" beginning on page S-7 and For a more detailed description of our common stock issuable upon exercise the warrants, see the section entitled "Description of Capital Stock" beginning on page 5 of the accompanying prospectus.

Rodman & Renshaw, LLC acted as the sole placement agent and book runner on this transaction. The placement agent is not purchasing or selling any of these securities nor is it required to sell any specific number or dollar amount of securities, but has agreed to use its best efforts to sell the securities offered by this prospectus supplement.

Our common stock is quoted on the Nasdaq Global Market and the MTAX in Italy under the symbol CTIC. On December 19, 2007, the last reported sale price of our common stock on the Nasdaq Global Market was \$2.02.

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**Investing in our common stock and warrants involves a high degree of risk. See the section entitled Risk Factors beginning on page S-5 of this prospectus supplement.**

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement is truthful or complete. Any representation to the contrary is a criminal offense.**

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	Shares of	Per Share of	
	Common Stock	Common Stock(1)	Total

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Public offering price of common stock and warrants to purchase common stock	3,469,999	\$	2.02	\$ 7,009,401
Placement agency fees(2)		\$	.1212	\$ 420,564
Total proceeds to us before other expenses(2)		\$	1.8988	\$ 6,588,837

(1) Table excludes shares of common stock issuable on exercise of warrants offered hereby.

(2) A fee equal to 6% of the aggregate proceeds raised in the offering shall be payable to the placement agent. The common stock and warrants will be issued on or about December 21, 2007.

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**This prospectus supplement is dated December 20, 2007.**

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No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus supplement or related prospectus or to which we have referred you. You must not rely on any unauthorized information or representations. This prospectus supplement and related prospectus is an offer to sell only the securities offered hereby but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this prospectus supplement and related prospectus is current only as of its date, and the information contained in any document incorporated by reference in this prospectus is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus supplement and related prospectus or any sale of a security.

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**ABOUT THIS PROSPECTUS**

This document is in two parts. The first part is this prospectus supplement, which describes the terms of this offering and also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into the accompanying prospectus. The second part is the accompanying prospectus, which gives more general information about the shares of our common stock and other securities we may offer from time to time under our shelf registration statement, some of which may not apply to the securities offered by this prospectus supplement. To the extent there is a conflict between the information contained in this prospectus supplement, on the one hand, and the information contained in the accompanying prospectus or any document incorporated by reference therein, on the other hand, the information in this prospectus supplement shall control.

You should rely only on the information contained or incorporated by reference in this prospectus supplement and contained or incorporated by reference in the accompanying prospectus. We have not authorized anyone, including the placement agent, and the placement agent has not authorized anyone, to provide you with different information. We are offering to sell, and seeking offers to buy, our common stock and warrants only in jurisdictions where offers and sales are permitted. The information contained or incorporated by reference in this prospectus supplement and contained, or incorporated by reference in the accompanying prospectus is accurate only as of the respective dates thereof, regardless of the time of delivery of this prospectus supplement and the accompanying prospectus, or of any sale of our common stock. It is important for you to read and consider all information contained in this prospectus supplement and the accompanying prospectus, including the documents incorporated by reference herein and therein, in making your investment decision. You should also read and consider the information in the documents we have referred you to in *Incorporation of Certain Information by Reference* in this prospectus supplement and *Where You Can Find More Information* in the accompanying prospectus.

Unless otherwise indicated, CTI, Company, we, us, our and similar terms refer to Cell Therapeutics, Inc. and its subsidiaries. CTI and X are our proprietary marks. All other product names, trademarks and trade names referred to in this prospectus supplement and the accompanying prospectus are the property of their respective owners.

**SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS**

In addition to the other information contained or incorporated by reference in this prospectus supplement and accompanying prospectus, you should carefully consider the risk factors contained in and incorporated by reference into this prospectus supplement and accompanying prospectus when evaluating an investment in our common stock. This prospectus supplement and accompanying prospectus and the documents incorporated by reference into this prospectus supplement and accompanying prospectus include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended ( *Securities Act* ), and Section 21E of the Securities Exchange Act of 1934, as amended ( *Exchange Act* ). All statements other than statements of historical fact are forward-looking statements for purposes of these provisions, including:

any projections of earnings, revenues or other financial items;

any statements of the plans and objectives of management for future operations;

any statements concerning proposed new products or services;

any statements regarding future operations, plans, regulatory filings or approvals;

any statements on plans regarding proposed or potential clinical trials or new drug filing strategies;

any statements concerning proposed new products or services, any statements regarding pending or future mergers or acquisitions;  
and

any statements regarding future economic conditions or performance, and any statement of assumptions underlying any of the foregoing.

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In some cases, forward-looking statements can be identified by the use of terminology such as may, will, expects, plans, anticipates, estimates, potential, or continue or the negative thereof or other comparable terminology. There can be no assurance that such expectations or any of the forward-looking statements will prove to be correct, and actual results could differ materially from these projected or assumed in the forward-looking statements. Our future financial condition and results of operations, as well as any forward-looking statements, are subject to inherent risks and uncertainties, including, but not limited to, the risk factors set forth in this prospectus. All forward-looking statements and reasons why results may differ included in this prospectus are made as of the date hereof, and we do not intend to update any such forward-looking statement or reason why actual results might differ.

This prospectus contains and incorporates by reference market data, industry statistics and other data that have been obtained from, or compiled from, information made available by third parties. We have not independently verified their data.

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**SUMMARY**

*The following summary highlights information contained elsewhere, or incorporated by reference, in this prospectus supplement and the related prospectus. The following summary does not contain all the information that you should consider before investing in our common stock. To understand this offering fully, you should read this entire prospectus supplement and related prospectus carefully, including the financial statements and the documents that we have incorporated by reference into this prospectus.*

**Our Company**

We develop, acquire and commercialize novel treatments for cancer. Our goal is to build a leading biopharmaceutical company with a diversified portfolio of proprietary oncology drugs. Our research, development, acquisition and in-licensing activities concentrate on identifying and developing new, less toxic and more effective ways to treat cancer.

We are developing XYOTAX, paclitaxel poliglumex, for the treatment of non-small cell lung cancer, or NSCLC, and ovarian cancer. As announced in March and May of 2005, our STELLAR 2, 3, and 4 phase III clinical studies for XYOTAX did not meet their primary endpoints of superior overall survival. However, we believe a pooled analysis of STELLAR 3 and 4 studies for treatment of first-line NSCLC patients who have poor performance status, or PS2, demonstrates a statistically significant survival advantage among women receiving XYOTAX when compared to women or men receiving standard chemotherapy. A survival advantage for women over men was also demonstrated in a first-line phase II clinical trial of XYOTAX and carboplatin, known as the PGT202 trial, supporting the potential benefit observed in the STELLAR 3 and 4 trials. In December 2005, we initiated a phase III clinical trial, known as the PIONEER, or PGT305, study, for XYOTAX as first-line monotherapy in PS2 women with NSCLC. In November 2006, we suspended enrollment in the PIONEER trial to allow data related to recently enrolled patients to mature and to assess the differences in early cycle deaths observed between arms of the study. In December 2006, we agreed with the recommendation of the Data Safety Monitoring Board to close the PIONEER lung cancer clinical trial due, in part, to the diminishing utility of the PIONEER trial given our plans to submit a new protocol to the U.S. Food and Drug Administration, or FDA. In early 2007, we submitted two new protocols under a Special Protocol Assessment, or SPA, to the FDA. The new trials, known as PGT306 and PGT307, focus exclusively on NSCLC in women with pre-menopausal estrogen levels, the subset of patients where XYOTAX demonstrated the greatest potential survival advantage in the STELLAR trials. We believe the lack of safe and effective treatment for women with advanced first-line NSCLC who have pre-menopausal estrogen levels, represents an unmet medical need. We initiated the PGT307 trial in September 2007. Although the FDA has established the requirement that two adequate and well-controlled pivotal studies demonstrating a statistically significant improvement in overall survival will be required for approval of XYOTAX in the NSCLC setting, we believe that compelling results from PGT307, along with supporting evidence from prior clinical trials, will enable us to submit a new drug application, or NDA, in the United States. In Europe, we plan to submit a marketing authorization application, or MAA, for first-line treatment of patients with advanced NSCLC who are PS2, based on a non-inferior survival and improved side effect profile which we believe was demonstrated in our STELLAR clinical trials. The basis for this filing has been reviewed by the Scientific Advice Working Party, or SAWP, at the European Medicines Agency, or EMEA; the EMEA agreed that switching the primary endpoint from superiority to noninferiority is feasible if the retrospective justification provided in the marketing application is adequate. The discussions with the SAWP focused on using the STELLAR 4 study as primary evidence of non-inferiority and the STELLAR 3 study as supportive.

We are developing pixantrone, a novel anthracycline derivative, for the treatment of non-Hodgkin's lymphoma, or NHL. An interim analysis of our ongoing phase III study of pixantrone, known as the EXTEND or PIX301 study, was performed by the independent Data Monitoring Committee in the third quarter of 2006. Based on their review, the study will continue. Pixantrone is also being studied in a phase II study, known as RAPID or PIX203, in which pixantrone is being substituted for doxorubicin in the R-CHOP regimen compared to the standard R-CHOP regimen in patients with previously untreated diffuse large B-cell lymphoma. An interim analysis of the RAPID study was reported in July 2007. The interim analysis of the study showed that to date a majority of the patients on both arms of the study achieved a major objective anti-tumor response (complete response or partial response). Patients on the pixantrone arm of the study had clinically significant reductions in the incidence of severe heart damage, infections, and thrombocytopenia (a reduction in the platelets in the blood) as well as significant reduction in febrile neutropenia. The study, which is targeting enrollment of 280 patients, is expected to complete enrollment in 2009.

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In September 2007, we announced that we decided to conduct a full analysis of the EXTEND trial, instead of an interim analysis as previously planned. We currently anticipate completing enrollment in the EXTEND trial in the fourth quarter of this year or first half of 2008 with primary endpoint data and expect the final results to be reported in the first half of 2008. The FDA agreed that randomized safety data from the RAPID study (CHOP-R vs. CPOP-R) could be used to support the EXTEND results in an NDA submission for pixantrone. In addition, we launched a phase III trial of pixantrone in indolent NHL, the PIX303 trial in September 2007, which will evaluate the combination of fludarabine, pixantrone, and rituximab versus fludarabine and rituximab in patients who have received at least one prior treatment for relapsed or refractory indolent NHL. The target enrollment for the trial is 300 patients. In May 2007, we received fast track designation from the FDA for pixantrone for the treatment of relapsed or refractory indolent NHL.

We are developing brostallicin, which is a small molecule, anti-cancer drug with a novel, unique mechanism of action and composition of matter patent coverage. Data on more than 200 patients treated with brostallicin in phase I/II clinical trials reveal evidence of activity in patients with refractory cancer and patient/physician-friendly dosage and administration. A phase II study of brostallicin in relapsed/refractory soft tissue sarcoma met its pre-defined activity and safety hurdles and resulted in a first-line phase II study that is currently being conducted by the European Organization for Research and Treatment of Cancer (EORTC). Additionally, CTI plans to initiate a phase II/III myxoid liposarcoma trial in 2008. Brostallicin also has demonstrated synergism with new targeted agents as well as established treatments in pre-clinical trials.

Due to resource constraints, we are currently focusing our efforts on near-term products in our pipeline, XYOTAX, pixantrone and brostallicin, and have no immediate plans to conduct additional CT-2106, polyglutamate camptothecin, studies.

On July 31, 2007, we completed our acquisition of Systems Medicine, Inc. (SMi), a privately held oncology company, in a stock for stock merger valued at \$20 million. Pursuant to the terms of the Merger Agreement regarding that transaction dated July 24, 2007, if certain FDA regulatory approval milestones are met, the former shareholders of SMi could also receive a maximum of \$15 million in additional consideration, payable in either cash or shares of our common stock at our election, provided that we cannot make any payments in shares of our common stock if such payment would mean that the total number of shares issued as consideration under the agreement exceeds 19.9% of our outstanding common stock on (measured as of July 31, 2007, the date the transaction closed) without first obtaining shareholder approval for such issuance as required under NASDAQ rules. SMi continues to operate under the name Systems Medicine LLC, as a wholly-owned subsidiary of CTI. SMi holds worldwide rights to use, develop, import and export brostallicin, a DNA minor groove binding agent that has demonstrated anti-tumor activity and a favorable safety profile in clinical trials in which more than 200 patients have been treated to date. Brostallicin is currently in phase II clinical studies. SMi currently uses a genomic-based platform to guide development of brostallicin; we expect to use that platform to guide development of our licensed oncology products in the future.

SMi also has a strategic affiliation with the Translational Genomics Research Institute, or TGen, and has the ability to use TGen's extensive genomic platform and high throughput capabilities to target a cancer drug's context-of-vulnerability, which is intended to guide clinical trials toward patient populations where the highest likelihood of success should be observed, thereby potentially lowering risk and shortening time to market.

As of September 30, 2007, we had incurred aggregate net losses of approximately \$1,070.4 million since inception. We expect to continue to incur additional operating losses for at least the next several years.



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**Recent Developments**

**Agreement to Acquire ZEVALIN®**

On August 15, 2007, we entered into an Asset Purchase Agreement with Biogen Idec Inc. (BIIB) for the purchase of BIIB's radiopharmaceutical product ZEVALIN® (ibritumomab tiuxetan) for development, marketing and sale in the United States. Under the terms of that agreement, we would acquire ZEVALIN and certain assets related to ZEVALIN for an initial purchase price of \$10 million, ongoing royalty payment obligations based on the net sales of ZEVALIN in the United States, and up to two additional payments of \$10 million each due upon reaching certain FDA approval milestones. The royalty payments under the agreement would be paid from the time the transaction closes until the latest of (a) the expiration of the last to expire of any patents related to ZEVALIN, (b) the first date on which any person sells a biosimilar product in the United States or (c) December 31, 2015. The transaction has been approved by our board of directors and the board of directors of BIIB and is subject to customary closing conditions, including receipt of third party consents. The transaction is expected to close before the end of 2007. At the closing, we will also enter into certain licensing, supply and services agreements, in addition to a security agreement for the benefit of BIIB.

If the transaction is completed, the acquisition would mark our return to the marketplace with a commercialized oncology product. The FDA approved Zevalin in 2002 to treat patients with relapsed indolent non-Hodgkin's lymphoma. In 2006, Biogen Idec reported \$16.4 million in U.S. Zevalin sales.

**Corporate Integrity Agreement**

In anticipation of our proposed acquisition of ZEVALIN®, we entered into a Corporate Integrity Agreement with the Office of Inspector General of the United States Department of Health and Human Services (OIG-HHS). This agreement was part of the condition of our settlement with the United States Attorney General regarding certain litigation over TRISENOX, as disclosed in the prospectus accompanying this prospectus supplement. The agreement is intended to promote compliance with statutes, regulations and written directives of Medicare, Medicaid and all other federal health care programs and FDA requirements through the creation of a compliance committee and compliance program and the adoption of a formal code of conduct. The agreement will become effective on the earlier of the closing of the ZEVALIN acquisition or the date on which we first begin to manufacture, market, sell, or distribute any product reimbursed by federal health care programs and shall remain in effect for five years from that date.

**Debt Restructuring**

We have a substantial amount of debt outstanding, and our annual interest expense with respect to our debt is significant. We recently completed a partial restructuring of our 2008 convertible notes in December 2007, which retired a portion of such debt and extended the maturity date on certain such debt to 2011. However, approximately \$19.8 million of such 2008 convertible notes remain outstanding and are due on June 15, 2008. We expect to continue to review alternatives to restructure our remaining outstanding 2008 convertible notes.

**Other Information**

We were incorporated in Washington in 1991. Our principal executive offices are located at 501 Elliott Avenue West, Suite 400, Seattle, Washington 98119. Our telephone number is (206) 282-7100. Our website can be found at [www.cticseattle.com](http://www.cticseattle.com). Information contained in, or accessible through, our website does not constitute a part of this prospectus supplement.

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**The Offering**

*The following is a brief summary of some of the terms of the offering and is qualified in its entirety by reference to the more detailed information appearing elsewhere in this prospectus supplement and the accompanying prospectus. For a more complete description of our common stock, see the Description of Capital Stock section in the accompanying prospectus. For a more complete description of the warrants, see the Description of Warrants section in this prospectus supplement.*

Securities we are offering	3,469,999 shares of common stock, warrants to purchase up to 3,469,999 shares of common stock and 3,469,999 shares of common stock issuable upon exercise of the warrants. We will sell our common stock and warrants in this offering at a negotiated price of \$2.02 per share of common stock. Each purchaser will receive a warrant to purchase approximately one share of common stock at an exercise price of \$2.02 per share for each share of common stock they purchase in the offering.
Description of warrants	<p>Each purchaser of our common stock will receive a warrant to purchase one share of common stock for each share of common stock they purchase in the offering. The warrants are exercisable at an exercise price of \$2.02 per share of our common stock at any time on or after June 20, 2008 for a period of three years from the date the warrants become exercisable. The exercisability of the warrants is also contingent upon our obtaining shareholder approval to increase the number of authorized shares of common stock available for issuance.</p> <p>For more information on the warrants, see Description of Warrants in this prospectus supplement.</p>
Use of proceeds after expenses	We intend to use the proceeds from this offering towards the closing of our anticipated acquisition of ZEVALIN from Biogen Idec and for general corporate purposes including, without limitation, research and development, preclinical and clinical trials, the preparation and filing of new drug applications and general working capital. See Use of Proceeds in this prospectus supplement.
Market for the common stock and warrants	Our common stock is quoted and traded on the Nasdaq Global Market and the MTAX in Italy under the symbol CTIC. However, there is no established public trading market for the offered warrants, and we do not expect a market to develop. In addition, we do not intend to apply for listing the warrants on any securities exchange.

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**RISK FACTORS**

You should carefully consider the risks described below and other information in this prospectus supplement and in the documents incorporated by reference into this prospectus supplement before deciding to invest in our common stock. Additional risks and uncertainties that we do not presently know or that we currently deem immaterial may also impair our business, financial condition, operating results and prospects. If any of the following risks actually occur, they could materially adversely affect our business, financial condition, operating results or prospects. In that case, the trading price of our securities could decline.

Please see the information provided under Item 1A Risk Factors of our quarterly report on Form 10-Q for the quarter ended September 30, 2007, filed on November 9, 2007, which is incorporated by reference herein.

**Risks Related to this Offering**

*There is no public market for the warrants to purchase common stock in this offering.*

There is no established public trading market for the warrants being offered in this offering, and we do not expect a market to develop. In addition, we do not intend to apply for listing the warrants on any securities exchange or for quotation on the Nasdaq Global Market. Without an active market, the liquidity of the warrants will be limited.

*Since we have broad discretion in how we use the proceeds from this offering, we may use the proceeds in ways in which you disagree.*

Although we intend to use some or all of the net proceeds from this offering toward the closing of our acquisition of Zevalin, we may instead use some or all of the net proceeds for other general corporate purposes, and we have not allocated specific amounts of the net proceeds from this offering for any specific purpose. Accordingly, our management will have significant flexibility in applying the net proceeds of this offering. You will be relying on the judgment of our management with regard to the use of these net proceeds, and you will not have the opportunity, as part of your investment decision, to assess whether the proceeds are being used appropriately. It is possible that the net proceeds will be invested in a way that does not yield a favorable, or any, return for our company. The failure of our management to use such funds effectively could have a material adverse effect on our business, financial condition, operating results and cash flow.

*The warrants are not immediately exercisable and their exercisability is contingent upon our obtaining shareholder approval of an increase in our authorized shares.*

The warrants being sold as part of this offering, which have an exercise price of \$2.02 per share, will not be exercisable until June 20, 2008 and will expire on June 20, 2011. In the event our common stock price does not exceed the exercise price of the warrants during the period when the warrants are exercisable, the warrants may not have any value. Furthermore, the exercise of the warrants is conditioned upon our obtaining shareholder approval of an increase in our authorized shares at a special meeting of our stockholders. We currently have scheduled a special meeting for January 28, 2008 to approve an increase in our authorized shares from 110,000,000 to 210,000,000 shares. We have had difficulties in the past obtaining a quorum to conduct business at a shareholder meeting as a result of the number of our shares which are held by Italian shareholders. Furthermore, most Italian shareholders do not regularly vote shares they hold so it may be difficult to obtain the requisite shareholder approval.

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### **USE OF PROCEEDS**

We estimate that the net proceeds of this offering, after deducting placement agent fees and our estimated offering expenses, and excluding the proceeds, if any, from the exercise of the warrants issued in this offering, will be approximately \$6.5 million.

We currently intend to use the net proceeds from this offering toward the payment of the purchase price for Zevalin, which consists of an initial up front payment of \$10 million, and for working capital and for general corporate purposes, which may include, among other things, funding research and development, preclinical and clinical trials, the preparation and filing of new drug applications and general working capital.

We cannot estimate precisely the allocation of the net proceeds from this offering among these uses. The amounts and timing of the expenditures may vary significantly, depending on numerous factors, including the progress of our clinical trials and other development efforts as well as the amount of cash used in our operations. Accordingly, our management will have broad discretion in the application of the net proceeds of this offering. We reserve the right to change the use of proceeds as a result of certain contingencies such as competitive developments, opportunities to acquire technologies or products and other factors. Pending the uses described above, we may temporarily invest the net proceeds of this offering in short- and medium-term interest-bearing obligations, investment-grade instruments, certificates of deposit or direct or guaranteed obligations of the U.S. government.

### **DETERMINATION OF OFFERING PRICE**

We will sell our common stock and warrants in this offering at a negotiated price of \$2.02 per share of common stock. Each purchaser of our common stock will receive a warrant to purchase one share of common stock at an exercise price of \$2.02 per share for each share of common stock they purchase in the offering. The terms and conditions of the common stock, and the warrants, including exercise price, were determined by negotiation by us and the placement agent. The principal factors considered in determining these terms and conditions include:

the market price of our common stock;

the information set forth in this prospectus supplement and accompanying prospectus and otherwise available to the placement agent;

our history and prospects and the history of, and prospects for, the industry in which we compete;

our past and present financial performance and an assessment of our management;

our prospects for future earnings and the present state of our development;

the general condition of the securities markets at the time of this offering;

the recent market prices of, and demand for, publicly traded common stock of generally comparable companies; and

other factors deemed relevant by the placement agent and us.

### **DIVIDEND POLICY**

We have never declared or paid any cash dividends on our common stock and do not currently anticipate declaring or paying cash dividends on our common stock in the foreseeable future. Except for dividends payable on the Series A 3% Convertible Preferred Stock, the Series B 3% Convertible Preferred Stock, the Series C 3% Convertible Preferred Stock and Series D 7% Convertible Preferred Stock, we currently intend to

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retain all of our future earnings, if any, to finance operations. Any future determination relating to our dividend policy will be made at the discretion of our board of directors and will depend on a number of factors, including future earnings, capital requirements, financial conditions, future prospects, contractual restrictions and other factors that our board of directors may deem relevant.

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**DESCRIPTION OF COMMON STOCK**

For a complete description of our common stock, see the Description of Capital Stock section in the accompanying prospectus on page 5.

**DESCRIPTION OF WARRANTS**

*The material terms and provisions of the warrants being offered pursuant to this prospectus supplement and the accompanying prospectus are summarized below. This summary is subject to, and qualified in its entirety by, the form of warrant to be filed as an exhibit to our current report on Form 8-K, which we expect to file with the SEC on or about December 27, 2007*

The warrants will be exercisable on or after June 20, 2008 and will terminate on the third anniversary of the date the warrants become exercisable. The exercisability of the warrants is conditioned upon our obtaining shareholder approval of an increase in our authorized shares at a special meeting of our stockholders. The warrants will be exercisable, at the option of each holder, upon the surrender of the warrants to us and the payment in cash of the exercise price of the shares being acquired upon exercise of the warrants.

The exercise price per share of common stock purchasable upon exercise of the warrants is \$2.02 per share of common stock being purchased. The exercise price is subject to appropriate adjustment in the event of stock dividends, stock splits, reorganizations or similar events affecting our common stock. The holders of the warrants are entitled to 20 days notice before the record date for certain distributions to holders of our common stock. If certain fundamental transactions occur, such as a merger, consolidation, sale of substantially all of our assets, tender offer or exchange offer with respect to our common stock or reclassification of our common stock, the holders of the warrants will be entitled to receive thereafter in lieu of our common stock, the consideration (if different from common stock), that the holders of our common stock received due to such fundamental transaction.

As of the date of this prospectus supplement, warrants to purchase 8,273,661 shares of our common stock were outstanding, which number does not include the warrants issued in this offering.

**CERTAIN U.S. FEDERAL INCOME TAX CONSIDERATIONS**

All purchasers of the common stock and warrants are advised to consult their own tax advisors regarding the federal, state, local and foreign tax consequences of the purchase, ownership, conversion, exercise and disposition of the common stock or warrants in their particular situations.

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**PLAN OF DISTRIBUTION**

We are offering through Rodman & Renshaw, LLC, who acted as our sole placement agent (the "placement agent"), 3,469,999 shares of our common stock at a purchase price of \$2.02 per share to investors. In addition, each investor in the offering will receive warrants to purchase shares of our common stock, at an exercise price of \$2.02 per share. In connection with this offering, we will pay fees to the placement agent. The placement agent will be working solely on a "best efforts" basis and is not purchasing or selling any shares by this prospectus supplement or the accompanying prospectus, nor is it required to arrange for the purchase and sale of any specific number or dollar amount of shares. Therefore, we may not sell the entire amount of shares of our common stock and warrants offered pursuant to this prospectus supplement.

The securities purchase agreement provides that the obligations of the investors in the offering are subject to certain conditions precedent, including the absence of any material adverse change in our business and the receipt of certain opinions from our counsel.

Confirmations and this prospectus supplement will be delivered, or otherwise made available, to all investors who agree to purchase shares of the common stock, informing investors of the closing date as to such shares. We currently anticipate that closing of the sale of the shares of common stock and warrants to purchase up to 3,469,999 shares of common stock will take place on or about December 21, 2007. Investors will also be informed of the date and manner in which they must transmit the purchase price for their shares.

On the scheduled closing date, the following will occur:

we will receive funds in the amount of the aggregate purchase price of the 3,469,999 shares of common stock and warrants to purchase up to 3,469,999 shares of common stock;

we will issue the 3,469,999 shares of common stock and warrants to purchase up to 3,469,999 shares of common stock; and

we will pay the placement agent's fee in accordance with the terms of our agreement with the placement agent.

On December 20, 2007, we entered into a letter agreement with the placement agent to serve as exclusive placement agent for purchasers of our securities pursuant to our existing shelf registration statement (File No. 333-143452), for a period of 30 days. Pursuant to the agreement, we will pay the placement agent at closing a cash fee equal to 6% of all cash proceeds received by us from investors it introduces to us.

We have also agreed to pay to reimburse the placement agent for up to \$20,000 of expenses incurred in connection with the offering. The estimated offering expenses payable by us, excluding the placement agent's fees, are \$75,000, which include legal, accounting and printing costs and various other fees associated with registering and listing the shares of common stock. We have agreed to indemnify the placement agent against certain liabilities, including liabilities under the Securities Act. We may also be required to contribute to payments the placement agent may be required to make in respect of such liabilities.

The agreement with the placement agent and the form of stock purchase agreement with the investors are included as exhibits to our current report on Form 8-K that will be filed with the SEC in connection with the completion of this offering.

Rodman & Renshaw, LLC may be deemed to be an underwriter within the meaning of Section 2(a)(11) of the Securities Act, and any commissions received by them and any profit realized on the resale of the securities sold by them while acting as principal might be deemed to be underwriting discounts or commissions under the Securities Act. As underwriters, the placement agent would be required to comply with the requirements of the Securities Act and the Exchange Act, including, without limitation, Rule 415(a)(4) under the Securities Act and Rule 10b-5 and Regulation M under the Exchange Act. These rules and regulations may limit the timing of purchases and sales of shares of common stock and warrants by the placement agent. Under these rules and regulations, the placement agent:

may not engage in any stabilization activity in connection with our securities; and

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may not bid for or purchase any of our securities or attempt to induce any person to purchase any of our securities, other than as permitted under the Exchange Act, until it has completed its participation in the distribution.

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**LEGAL MATTERS**

The validity of the issuance of the Cell Therapeutics, Inc. securities offered by this prospectus supplement and accompanying prospectus will be passed upon for Cell Therapeutics, Inc. by Heller Ehrman LLP, Seattle, Washington. Feldman Weinstein & Smith LLP in New York, New York is acting as counsel for the placement agent.

**INCORPORATION OF CERTAIN INFORMATION BY REFERENCE**

We are subject to the information requirements of the Exchange Act. In accordance with the Exchange Act, we file reports, proxy statements and other information with the SEC. Such reports, proxy statements and other information filed by us are available free of charge on our web site, <http://www.cticseattle.com>, and may be inspected and copied at the public reference facilities maintained by the SEC at 100 F Street, N.E., Washington, D.C. 20549. You may obtain information on the operation of the public reference facilities by calling the SEC at 1-800-SEC-0330. The SEC maintains an Internet site at <http://www.sec.gov> that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC.

Our common stock is listed on the Nasdaq Global Market and such reports, proxy statements and other information concerning us may be inspected at the offices of The Nasdaq Stock Market, 1735 K Street, N.W., Washington, D.C. 20006.

SEC rules allow us to incorporate by reference into this prospectus supplement the information we file with the SEC. This means that we can disclose important information by referring you to those documents. The information incorporated by reference is considered to be a part of this prospectus. Information that we file later with the SEC, including all filings filed by us pursuant to the Exchange Act after the date of the initial registration statement and prior to the effectiveness of the registration statement, will automatically update and supersede this information.

In addition to the documents listed in the accompanying prospectus, we incorporate by reference the following documents:

our annual report on Form 10-K for the fiscal year ended December 31, 2006, as amended

our quarterly reports on Form 10-Q for the quarters ending March 31, 2007, June 30, 2007, and September 30, 2007;

our definitive Proxy Statement on Schedule 14A, dated and filed with the SEC on August 28, 2007 for our 2007 Annual Meeting of Shareholders;

our current reports on Form 8-K or 8-K/A filed with the SEC on filed on January 23, 2007, January 29, 2007, January 30, 2007, February 6, 2007, February 12, 2007, February 14, 2007, March 30, 2007, April 16, 2007, April 27, 2007, July 27, 2007, August 6, 2007, August 21, 2007, August 22, 2007, August 29, 2007, September 25, 2007, October 15, 2005, December 3, 2007, December 13, 2007 and December 14, 2007; and

The description of our capital stock contained in our Registration Statements on Form 10 filed with the SEC on June 27, 1996 and June 28, 1996, including any amendment or reports filed for the purpose of updating that description.

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Any documents subsequently filed by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, prior to the termination of the offering, shall be deemed to be incorporated by reference into this prospectus supplement. You should rely only on the information provided or incorporated by reference in this prospectus or any prospectus supplement. We have not authorized anyone else to provide you with different information.

We will provide without charge to each person, including any beneficial owner of our common stock, to whom this prospectus is delivered, upon written or oral request, a copy of any and all of the documents that have been incorporated by reference in the prospectus but not delivered with this prospectus (without exhibits, unless the exhibits are specifically incorporated by reference but not delivered with this prospectus). Requests should be directed to Louis A. Bianco, Executive Vice President, Finance and Administration, Cell Therapeutics, Inc., 501 Elliott Avenue West, Suite 400, Seattle, Washington 98119.

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**PROSPECTUS**

**\$150,000,000**

**Common Stock**

**Preferred Stock**

**Debt Securities**

**Warrants**

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From time to time, we may sell any of the securities listed above.

We will provide the specific terms of these securities in one or more supplements to this prospectus. You should read this prospectus, the information incorporated by reference and any prospectus supplement carefully before you invest.

Our common stock is quoted on the Nasdaq Global Market under the symbol CTIC.

The applicable prospectus supplement will contain information, where applicable, as to any other listing on the Nasdaq Global Market or any securities exchange or market of the securities covered by the prospectus supplement.

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**Investing in our securities involves significant risks, which we describe in our annual report on Form 10-Q for the three months ended March 31, 2007 and in other documents that we subsequently file with the Securities and Exchange Commission, and which we will describe in supplements to this prospectus.**

**This prospectus may not be used to offer or sell any securities unless accompanied by a prospectus supplement.**

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We may sell the securities to or through underwriters or dealers, directly to purchasers or through agents designated from time to time. For additional information on the methods of sale, you should refer to the section entitled "Plan of Distribution" in this prospectus. If any underwriters are involved in the sale of any securities with respect to which this prospectus is being delivered, the names of such underwriters and any applicable discounts or commissions and over-allotment options will be set forth in a prospectus supplement. The price to the public of such securities and the net proceeds we expect to receive from such sale will also be set forth in a prospectus supplement.

**Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.**

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The date of this prospectus is June 15, 2007

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No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus or any prospectus supplement. You must not rely on any unauthorized information or representations. This prospectus is an offer to sell only the securities offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this prospectus or any applicable prospectus supplement is current only as of its date, and the information contained in any document incorporated by reference in this prospectus is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus or any prospectus supplement or any sale of a security.

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**ABOUT THIS PROSPECTUS**

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, using a shelf registration process. Under the shelf registration process, we may sell common stock, preferred stock, debt securities or warrants in one or more offerings up to a total dollar amount of \$150,000,000. This prospectus provides you with a general description of the securities we may offer. Each time we sell any securities under this prospectus, we will provide a prospectus supplement that will contain more specific information about the terms of those securities. We may also add, update or change in the prospectus supplement any of the information contained in this prospectus. This prospectus, together with the applicable prospectus supplements and the documents incorporated by reference into this prospectus, includes all material information relating to this offering. Please carefully read both this prospectus and any prospectus supplement together with the additional information described below under **Where You Can Find More Information** before buying securities in this offering.

You should rely only on the information contained or incorporated by reference in this prospectus or a prospectus supplement. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information appearing in this prospectus or any prospectus supplement, as well as information we have previously filed with the SEC and incorporated by reference, is accurate as of the date on the front of those documents only. Our business, financial condition, results of operations and prospectus may have changed since those dates. **This prospectus may not be used to consummate a sale of our securities unless it is accompanied by a prospectus supplement.**

This prospectus contains and incorporates by reference market data, industry statistics and other data that have been obtained from, or compiled from, information made available by third parties. We have not independently verified their data.

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### **SUMMARY**

*The following is a summary of this prospectus. The following summary does not contain all the information that you should consider before investing in the notes. You should read this entire prospectus carefully, including the documents that we have incorporated by reference into this prospectus. Unless otherwise indicated, CTI, Company, we, us, our and similar terms refer to Cell Therapeutics, Inc. and its subsidiaries.*

### **Our Company**

We develop, acquire and commercialize novel treatments for cancer. Our goal is to build a leading biopharmaceutical company with a diversified portfolio of proprietary oncology drugs. Our research, development, acquisition and in-licensing activities concentrate on identifying and developing new, less toxic and more effective ways to treat cancer.

We are developing XYOTAX, paclitaxel poliglumex, for the treatment of non-small cell lung cancer, or NSCLC, and ovarian cancer. We believe the lack of safe and effective treatments for women with advanced first-line NSCLC who are performance status 2 represents an unmet medical need. We are also developing pixantrone, a novel anthracycline derivative, for the treatment of non-Hodgkin's lymphoma, or NHL.

In September 2006, we entered into an exclusive worldwide licensing agreement with Novartis International Pharmaceutical Ltd., or Novartis, for the development and commercialization of XYOTAX. Total product registration and sales milestones for XYOTAX under the agreement could reach as much as \$270 million. We will not receive any product registration or sales milestone payments under the licensing agreement unless Novartis elects to participate in the development and commercialization of XYOTAX and we receive the necessary regulatory approvals. There is no guarantee that Novartis will make any such election or that we will receive such regulatory approvals. The licensing agreement also provides Novartis with an option to develop and commercialize pixantrone based on certain agreed terms. There is no guarantee that Novartis will exercise this option.

We were incorporated in Washington in 1991. Our principal executive offices are located at 501 Elliott Avenue West, Seattle, Washington 98119. Our telephone number is (206) 282-7100. Our website can be found at [www.cticseattle.com](http://www.cticseattle.com). We make available free of charge on our website our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and other filings pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, and amendments to such filings, as soon as reasonably practicable after each is electronically filed with, or furnished to, the Securities and Exchange Commission, or the SEC.

CTI and XYOTAX are our proprietary marks. All other product names, trademarks and trade names referred to in this Form 10-K are the property of their respective owners.

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**The Securities We May Offer**

We may offer shares of our common stock, preferred stock and various series of debt securities and warrants to purchase such securities with a total value of up to \$150 million from time to time under this prospectus at prices and on terms to be determined by market conditions at the time of offering. This prospectus provides you with a general description of the securities we may offer. Each time we offer a type or series of securities, we will provide a prospectus supplement that will describe the specific amounts, prices and other important terms of the securities, including, to the extent applicable:

designation or classification;

aggregate principal amount or aggregate offering price;

maturity;

original issue discount, if any;

rates and times of payment of interest, dividends or other payments, if any;

redemption, conversion, exchange, settlement or sinking fund terms, if any;

conversion, exchange or settlement prices or rates, if any, and, if applicable, any provisions for changes to or adjustments in the conversion, exchange or settlement prices or rates and in the securities or other property receivable upon conversion, exchange or settlement;

ranking;

restrictive covenants, if any;

voting or other rights, if any; and

important federal income tax considerations.

The prospectus supplement also may add, update or change information contained in this prospectus or in documents we have incorporated by reference into this prospectus.

**This prospectus may not be used to consummate sales of offered securities unless accompanied by a prospectus supplement.**

We may sell the securities directly to or through underwriters, dealers or agents. We, and our underwriters or agents, reserve the right to accept or reject all or part of any proposed purchase of securities. If we do offer securities through underwriters or agents, we will include in the applicable prospectus supplement:

the names of those underwriters or agents;

applicable fees, discounts and commissions to be paid to them;

details regarding over-allotment options, if any; and

the net proceeds to us.

*Common Stock.* We may issue shares of our common stock from time to time. Each holder of common stock is entitled to one vote for each share held on all other matters to be voted upon by the shareholders and there are no cumulative voting rights. Subject to preferences that may be applicable to any outstanding preferred stock, holders of common stock are entitled to receive ratably the dividends, if any, that are declared from time to time by the board of directors out of funds legally available for that purpose. In the event of a liquidation, dissolution or winding up of the company, the holders of common stock are entitled to share in our assets remaining after the payment of liabilities and the satisfaction of any liquidation preference granted to the holders of any outstanding shares of preferred stock. Holders of common stock have no preemptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. The rights, preferences and privileges of the holders of common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock that we may designate in the future.

*Preferred Stock.* We may issue shares of our preferred stock from time to time. The board of directors has the authority, without action by the shareholders, to designate and issue up to 10,000,000 shares of preferred stock in one or more series and to designate the rights, preferences and privileges of each series, which may be greater than the rights of the common stock. We issued 20,000 shares of our Series A 3% convertible preferred stock in February 2007 and 37,200 shares of our Series B 3% convertible preferred stock in April 2007. As of May 15, 2007, 6,850 shares of our Series A 3% convertible preferred were outstanding and 15,380 shares of our Series B 3% convertible preferred stock were outstanding.

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We will fix the rights, preferences and privileges of the preferred stock of each series that we sell under this prospectus and applicable prospectus supplements in the certificate of designation relating to that series. We will incorporate by reference into the registration statement of which this prospectus is a part the form of any certificate of designation that describes the terms of the series of preferred stock that we are offering before the issuance of the related series of preferred stock. We urge you to read the prospectus supplements related to the series of preferred stock being offered, as well as the complete certificate of designation that contains the terms of the applicable series of preferred stock.

*Debt Securities.* We may issue debt securities from time to time, in one or more series, as either senior or subordinated debt or as senior or subordinated convertible debt. The senior debt securities will rank equally with any other unsubordinated debt that we may have and may be secured or unsecured. The subordinated debt securities will be subordinate and junior in right of payment, to the extent and in the manner described in the instrument governing the debt, to all or some portion of our indebtedness. Any convertible debt securities that we issue will be convertible into or exchangeable for our common stock or other securities of ours. Conversion may be mandatory or at your option and would be at prescribed conversion rates.

The debt securities will be issued under one or more documents called indentures, which are contracts between us and a trustee for the holders of the debt securities. In this prospectus, we have summarized certain general features of the debt securities. We urge you, however, to read the prospectus supplements related to the series of debt securities being offered, as well as the complete indentures that contain the terms of the debt securities. Indentures have been filed as exhibits to the registration statement of which this prospectus is a part, and supplemental indentures and forms of debt securities containing the terms of debt securities being offered will be incorporated by reference into the registration statement of which this prospectus is a part from reports we file with the Securities and Exchange Commission.

*Warrants.* We may issue warrants for the purchase of common stock, preferred stock and/or debt securities in one or more series, from time to time. We may issue warrants independently or together with common stock, preferred stock and/or debt securities, and the warrants may be attached to or separate from those securities.

The warrants will be evidenced by a warrant certificate issued under one or more warrant agreements, which are contracts between us and an agent for the holders of the warrants. In this prospectus, we have summarized certain general features of the warrants. We urge you, however, to read the prospectus supplements related to the series of warrants being offered, as well as the complete warrant agreements and warrant certificates that contain the terms of the warrants. Forms of warrant agreements and warrants certificates relating to warrants for the purchase of common stock, preferred stock and debt securities have been filed as exhibits to the registration statement of which this prospectus is a part, and complete warrant agreements and warrant certificates containing the terms of warrants being offered will be incorporated by reference into the registration statement of which this prospectus is a part from reports we file with the Securities and Exchange Commission.

**Financial Ratios**

Our ratio of earnings to fixed charges for each of the periods indicated is as follows:

	Year Ended December 31,					Three Months Ended March 31,	
	2002	2003	2004	2005	2006	2006	2007
Ratio of earnings to fixed charges(1)							

(1) For the purposes of computing ratio of earnings to fixed charges, earnings consist of income (loss) before provision for income taxes plus fixed charges. Fixed charges consist of interest charges and that portion of rental payments under operating leases we believe to be representative of interest. Earnings for the years ended December 31, 2002, 2003, 2004, 2005, 2006 and for the three months ended March 31, 2006 and 2007, were insufficient to cover fixed charges by \$49,903, \$130,031, \$252,298, \$102,505, \$135,819, \$51,916 and \$28,739 (in thousands) respectively.



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**RISK FACTORS**

Prior to making a decision about investing in our securities, you should carefully consider the specific risks discussed under **Risk Factors** in the applicable prospectus supplement and in our subsequent annual reports on Form 10-K and quarterly reports on 10-Q incorporated by reference into this prospectus, together with all of the other information appearing in this prospectus or incorporated by reference into this prospectus and any applicable prospectus supplement, in light of your particular investment objectives and financial circumstances.

**SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS**

In addition to the other information contained or incorporated by reference in this prospectus, you should carefully consider the risk factors contained in and incorporated by