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): September 9, 2021

PHARMACYTE BIOTECH, INC.

(Exact Name of Registrant as Specified in its Charter)

001-40699

62-1772151

(State of other jurisdiction of incorporation)	(Commission File Number)	(I.K.S. Employer Identification No.)
23046 Avenida de la Carlota, Suite 600 Laguna Hills, CA (Address of Principal Executive Offices)		92653 (Zip Code)
Registrant's to	elephone number, including area code: (917) 59	5.2850
Registrant's to	-	3-2030
(Former n	$\frac{N/A}{A}$ name or former address, if changed since last rep	port)
Check the appropriate box below if the Form 8-K filing is intended	to simultaneously satisfy the filing obligation of	f the registrant under any of the following provisions:
☐ Written communications pursuant to Rule 425 under the Securiti	es 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) to	under the Exchange Act (17 CFR 240.14d-2(b))	
☐ Pre-commencement communications pursuant to Rule 13e-4(c) u	under the Exchange Act (17 CFR 240.13e-4(c))	
Securities registered pursuant to Section 12(b) of the Act:		
Title of each class	Trading Symbol(s)	Name of exchange on which registered
Common Stock, Par Value \$0.0001 Per Share	PMCB	The Nasdaq Stock Market LLC (Nasdaq Capital Market)
Indicate by check mark whether the registrant is an emerging growt the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).	th company as defined in Rule 405 of the Secur	ities Act of 1933 (§230.405 of this Chapter) or Rule 12b-2 of
Emerging growth company \square		
If an emerging growth company, indicate by check mark if the regiaccounting standards provided pursuant to Section 13(a) of the Excl		ition period for complying with any new or revised financial

Item 7.01 Regulation FD Disclosure

<u>Nevada</u>

On September 9, 2021, PharmaCyte Biotech, Inc. ("Company") made available on the Company's website at<u>www.pharmacyte.com</u> a corporate presentation which may be used in presentations to investors and analysts from time to time in the future. A copy of the Company's corporate presentation is attached hereto as Exhibit 99.1 and is incorporated by reference.

The information contained in this Current Report on Form 8-K speaks only as of the date hereof. While the Company may elect to update the information in this Current Report on Form 8-K in the future, the Company disclaims any obligations to do so except to the extent required by applicable law.

The information furnished in this Item 7.01 of this Current Report on Form 8-K and Exhibit 99.1 attached hereto shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended ("Exchange Act"), or otherwise subject to the liabilities of that section. The information in this Item 7.01 of this Current Report on Form 8-K is not incorporated by reference into any filings of the Company made under the Securities Act of 1933, as amended, or the Exchange Act, whether made before or after the date of this Current Report on Form 8-K, regardless of any general incorporation language in the filing unless specifically stated so therein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

99.1 <u>Presentation of PharmaCyte Biotech, Inc.</u>

Cover Page Interactive Data File (embedded within the Inline XBRL document).

SIGNATURES

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

PHARMACYTE BIOTECH, INC.

By:/s/ Kenneth L. Waggoner
Kenneth L. Waggoner
Chief Executive Officer, President and General Counsel



Presentation of PharmaCyte Biotech



Safe Harbor Statement and Disclaimer

- This document may include statements by PharmaCyte Biotech that constitute "forward-looking statements." Such statements are often characterized by the terms "may," "believes," expects" or "anticipates" and do not reflect facts.
- Forward-looking statements involve risks, uncertainties and other factors that may
 cause actual results, performance or achievements of PharmaCyte and its
 subsidiaries to be materially different from those expressed or implied by such
 forward-looking statements. Forward-looking statements speak only as of the date
 the statement was made. PharmaCyte does not undertake, and specifically declines,
 any obligation to update any forward-looking statements.
- Factors that may affect forward-looking statements and PharmaCyte's business
 generally including, but not limited to: (i) the risk factors, cautionary and other
 statements set forth in PharmaCyte's periodic filings with the Securities and
 Exchange Commission available at www.sec.gov, and (ii) other factors that
 PharmaCyte is currently unable to identify or quantify but may exist in the future.



Safe Harbor Statement and Disclaimer (cont'd)

This presentation shall not constitute an offer to sell or a solicitation of an offer to buy any
securities, nor shall there be any sale of such securities 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.

PHARMACYTE BIOTECH

Platform Technology for Cancer and Diabetes

Encapsulate Genetically Modified Live Cells to Treat Diseases

Cancer:

- Encapsulated cells convert a prodrug from its inactive form to its cancerkilling form
- Encapsulated cells are implanted near the site of the tumor; low dose chemotherapy prodrug is given intravenously. Encapsulated cells act as an artificial liver to convert the prodrug at the site of the tumor
- We believe that this technology results in optimal cytotoxic effect with little to no treatment-related side effects

Diabetes:

- Encapsulated cells that produce, store, and release insulin in response to concentrations of glucose in the body are employed
- Encapsulated cells are implanted to act as an artificial pancreas for insulin production.

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Pipeline

Pancreatic Cancer:

Encapsulated live cells converting Ifosfamide – antitumor effectiveness and good quality of life*



Ascites Fluid Accumulation:

Encapsulated live cells converting Ifosfamide – delaying malignant ascites fluid accumulation



Diabetes:

Encapsulated live cells producing insulin on demand for Type 1 and Type 2 diabetes



Cancer Using Cannabinoids:

Encapsulated live cells converting cannabinoid prodrugs – antitumor effectiveness and pain control



Platform Technology

Targeted Chemotherapy for Solid Tumors

- Cell-in-a-Box® encapsulated live cells + cancer prodrug ifosfamide are used
- Ifosfamide at its "normal dose" has shown success in treating some cancers, but it cannot be used at the normal dose due to severe toxicity
- Cell-in-a-Box® capsules containing genetically modified live cells that produce an enzyme which converts ifosfamide into its cancer-killing form are implanted in the blood supply near the tumor
- Ifosfamide is then administered intravenously at a low dose. Ifosfamide is converted at site of tumor. It is normally converted in the liver
- Placement of the Cell-in-a-Box* capsules near the tumor enables the production of optimal concentrations of the "cancer-killing" form of ifosfamide at the site of the tumor
- The cancer-killing metabolite of ifosfamide has a short half-life, which we believe will result in little to no collateral damage to other organs or tissues in the body
- We believe this significantly reduces tumor size with little to no treatmentrelated side effects

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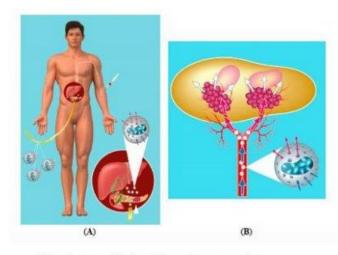
Cell-in-a-Box® Capsules

Unique Encapsulation Material

- Capsules are made of bio-inert material (cellulose/cotton)
- · Capsules have pores for nutrient and waste transfer
- The pores are too small for immune system cells to enter or encapsulated live cells to leave the capsules
- The encapsulated live cells can be stored frozen for long periods (5+ years) and when the cells are thawed, they recover with approximately 85% viability
- Manageable logistics and long shelf-life
- Other live cell encapsulation technologies use substances such as alginate derived from seaweed – for the encapsulation material. All are far less robust and stable.
 None can be frozen to ship the encapsulated live cells



Targeted Deployment and Activation



ifosfamide-activating cells are implanted in the blood vessels leading to the pancreatic tumor

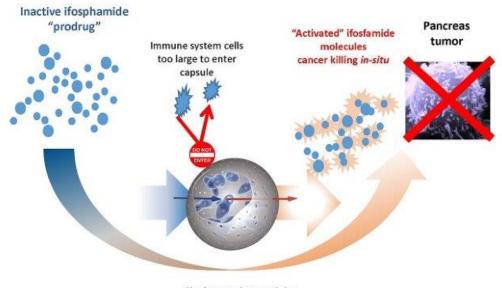
Capsules containing live

- Low dose ifosfamide is given intravenously
- Ifosfamide is converted to its cancer-killing form by the encapsulated live cells

<u>Blue Arrow</u>: Ifosfamide enters capsules <u>Red Arrow</u>: Conversion to active form

White Arrow: Activated ifosfamide targets tumor

Mechanism of Action



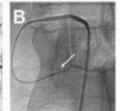
Single capsule containing ifosfamide-activating live cells

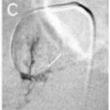
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Placement of Encapsulated Cells









- Angiography of blood vessels to the pancreas
- Insertion of catheter into the pancreas blood vessel (arrow)
- C. Injection of microcapsules
- Angiography shortly after capsule implantation (arrow)

Blood supply to the pancreas is not impeded by the capsules

Pancreatic Cancer

Aggressive Cancer with Poor Prognosis

- Increasing in most industrialized countries
- Third leading cause of cancer-related deaths in the western world
- Expected pancreatic cancer patients in 2021: U.S. >60,430; 48,480 deaths
- Approximately 80% die within the first year of diagnosis
- The five-year survival rate for Stage 4 pancreatic cancer is approximately 3%
- The survival rate is approximately 2% after 10 years from diagnosis
- Without treatment, pancreatic cancer patients have 3-6 months to live
- Usually not diagnosed until cancer is advanced and inoperable
- No cure unless surgically removed in earliest stages; only 15% are operable
- Since the first drug (gemcitabine) was approved for pancreatic cancer in 1996, approximately 40 pivotal Phase 3 clinical trials have been conducted
- Little improvement in median survival time and percentage of 1-year survivors
- Most success has been achieved with gemcitabine + another chemotherapy drug

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Pancreatic Cancer (cont'd)

Current First Line Therapy

Abraxane® + Gemcitabine

- Combination approved by FDA in September 2013
- Increased median survival by 1.8 months as compared to gemcitabine alone
- Increased the percentage of one-year survivors from 22% with gemcitabine to 38% with Abraxane* + gemcitabine
- Severe side effects from Abraxane® + gemcitabine therapy

FOLFIRINOX

- A combination of 4 drugs folinic acid, 5-fluorouracil, irinotecan and oxaliplatin
- Phase 3 clinical trial done in France. Never received marketing approval
- Should only be used in otherwise healthy patients
- Severe side effects from FOLFIRINOX therapy



Trials in Pancreatic Cancer Using Our Product Candidate

Phase 1/2 Clinical Trial with Two Courses of Low Dose Ifosfamide (1998-1999)

- Fourteen patients were treated with only two courses of ifosfamide at 1/3 (1 g/m) of the dose normally used to treat other forms of cancer
- Median survival: gemcitabine = 5.7 months vs. Cell-in-a-Box® + ifosfamide = 10 months
- Percentage of 1-year survivors: gemcitabine = 18% vs. Cell-in-a-Box® + ifosfamide =36%
- <u>Treatment-related side effects</u>: gemcitabine = significant vs. Cell-in-a-Box* + ifosfamide = none

Phase 2 Clinical Trial with Two Courses of Twice the Amount of Ifosfamide (1999-2000)

- Thirteen patients with advanced, inoperable pancreas cancer were treated in a single-arm, multi-site (3 in Germany [Rostock, Berlin, Munich], 1 in Berne, Switzerland) study. The only difference from the Phase 1/2 trial was that the dose of ifosfamide was doubled to 2 g/m² in an attempt to get better antitumor effects
- Doubling the dose of ifosfamide did not result in greater antitumor effectiveness, but resulted in treatment-related side effects

Overall Comparison of Results of the Two Clinical Trials

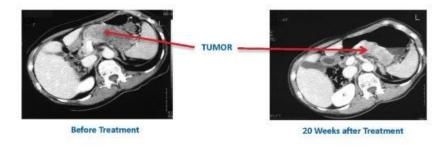
 When used in combination with Cell-in-a-Box capsules, ifosfamide should be given at a low doses to maximize anti-tumor effect and eliminate side effects

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Phase 1/2 Clinical Trial

Trial Design and Endpoints

- Patients with advanced, inoperable pancreatic cancer were treated in a singlearm (no comparator arm) trial at a single study site in Rostock, Germany
- Feasibility, safety, tolerability and clinical benefit were endpoints
- Tumor responsiveness to treatment was determined by response rate, median survival and percentage of one-year survivors
- Results were compared to historical data for gemcitabine, the "gold standard" of treatment for pancreatic cancer at the time



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Planned Trial in Pancreatic Cancer

Addressing Critical Unmet Medical Need

- A critical unmet medical need exists for patients with pancreatic cancer whose tumors are locally advanced, non-metastatic and inoperable but no longer respond to Abraxane* + gemcitabine or FOLFIRINOX
- These patients have no effective treatment alternative once their tumors no longer respond to these combination therapies
- The two most commonly used treatments for these patients are 5-fluorouracil (5-FU) or capecitabine (a prodrug of 5-FU) chemotherapy + radiation or radiation alone
- Both treatments are marginally effective in treating the tumor and result in serious side effects
- The goal of our planned Phase 2b clinical trial is to show that PharmaCyte's
 product candiate for pancreatic cancer can serve as a "consolidation therapy"
 with Abraxane* + gemcitabine or FOLFIRINOX and address the unmet medical
 need for these pancreatic cancer patients



Trial Design

Elements of Trial Design

- Design: Trial will be two-armed
- Location: Trial will be conducted in the U.S.
- Objective: Trial is designed to show Cell-in-a-Box* + low-dose ifosfamide can serve as an effective and safe consolidation chemotherapy for patients whose tumors no longer respond to the therapy of Abraxane* + gemcitabine or FOLFIRINOX after 4-6 months of treatment
- · CRO Administration: Trial will be conducted in the U.S. by Medpace
- CRO Responsibilities: Clinical development plans, program analysis, medical writing, clinical management and database development
- Radiologist Responsibilities: Coordinate implanting the Cell-in-a-Box® capsules and all measurements of antitumor effectiveness of the therapy as measured by CT scans
- Start Date: Trial is expected to start in Q3 of 2022, subject to the FDA lifting the clinical hold
- Eligibility: Only patients whose tumors are locally advanced, inoperable and non-metastatic will be eligible to be enrolled

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Trial Design (cont'd)

- Eligibility: Patients must have been treated with Abraxane * + gemcitabine or FOLFORINOX for 4-6 months until their tumors no longer respond to this therapy or the therapy is refused
- Randomization: 100 patients will be randomized into two groups. 50 patients will receive PharmaCyte's pancreatic cancer candidate. The other 50 patients will receive either capecitabine + external beam radiation therapy (EBRT) or stereotactic body radiation therapy (SBRT) alone
- PharmaCyte Treatment Group: Each patient treated with PharmaCyte's therapy will
 receive a single implantation of 300 Cell-in-a-Box® capsules + multiple courses of lowdose ifosfamide until the patient becomes refractory or there is an unacceptable
 toxicity level from the treatment
- Primary Endpoints: Progression-free survival measured from randomization to disease progression or death



Trial Design (cont'd)

Secondary Endpoints:

- Overall-survival is evaluated as the time from randomization to death by any cause
- Objective response rate is evaluated as the combined incidence of complete response (CR) and partial response (PR)
- Conversion from inoperable at randomization to operable post-treatment is evaluated by the proportion of patients who convert to resectable (RO/R1) disease
- Change in CA19-9 biomarker level from screening/baseline
- · Time to onset of pain and pain management
- Assessment of patients' overall quality-of-life while undergoing PharmaCyte's product candidate
- Safety will be assessed for the overall frequency of adverse events by measuring vital signs, 12 lead EKG, serum antibody response in patients receiving PharmaCyte's therapy, physical examinations and clinical laboratory test results

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Trial Design Oncologists

Leading Experts in Development of Therapies to Treat Pancreatic Cancer







Dr. Daniel D. Von Hoff

Dr. Manuel Hidalgo

Dr. Matthias Löhr

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Trial Design Oncologists (cont'd)

Dr. Daniel Von Hoff

- A world's leading oncologist in the development of drugs to treat pancreas cancer
- · Involved in clinical trials of more than 200 anticancer and biologic drugs
- Conducted early clinical trials for most of the cancer agents approved in the U.S. in the last 20 years
- Intimately involved in the clinical development of gemcitabine and Abraxane® for pancreas cancer
- · Editor of numerous oncologic scientific journals; recipient of numerous awards for cancer-related activities
- Professor of Medicine at Mayo Clinic Scottsdale and University of Arizona College of Medicine, Chief Scientific
 Officer of Scottsdale Healthcare and U.S. Oncology, Physician-in-Chief and Distinguished Professor of the
 Translational Genomics Research Institute (TGen) and Chief Development Officer of Translational Drug Development
 (TD2)

Dr. Manuel Hidalgo

- Internationally-renowned oncologist and clinical investigator in pancreas and other cancers
- Co-founder and Chairman of the International Pancreatic Cancer Research Team
- Assisted in the development of more than 30 novel oncology drugs; several for pancreas cancer
- Former head of Clinical Development at the Spanish National Cancer Research Center in Madrid and Co-Director of Drug Development and Gastrointestinal Oncology at Johns Hopkins University
- Former Clinical Director of the Rosenberg Clinical Cancer Center and Chief of the Division of Hematology-Oncology at Beth Israel Deaconess Medical Center in Boston
- Chief of the Division of Hematology and Medical Oncology/Weill Cornell Medicine and NewYork Presbyterian/Weill Cornell Medical Center

Dr. Matthias Löhr

- · One of Europe's leading authority in diseases of the pancreas (pancreas cancer and diabetes)
- Has published many important articles/commentaries on pancreas cancer and use of the Cell-in-a-Box* technology
- Principal Investigator for previous clinical trials of PharmaCyte's pancreas cancer therapy
- · Chairman of PharmaCyte's Medical and Scientific Advisory Board
- Currently Professor of Gastroenterology and Hepatology at Sweden's famed Karolinska Institute



Trial Preparations

Manufacturing Capability

- GMP facility successfully audited and deemed ready for production of GMP clinical trial product, known as "CypCaps™"
- Two staggered and back-to-back manufacturing runs of clinical trial successfully completed
- FDA required "release testing" completed and passed tests on CypCaps™
- · Successful Stability Study for 3, 6, 9, and 12-month timepoints
- CypCaps™ expected to be released into the U.S. when needed

Trial Preparations

- Pre-IND meeting held with FDA (January 2017)
- FDA identified numerous tests to be conducted and data to be developed to support a successful IND submission
- Met with US/EU investigators at ASCO annual meetings to refine trial design

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Trial Preparations (cont'd)

- Dr. Manuel Hidalgo selected as Principal Investigator
- Protocol and Investigator Brochure finalized, subject to input from the FDA
- Practical Clinical retained to function as the Director of Clinical Operations
- Medpace selected as CRO to conduct the trial. Medpace is among the top 10 CROs in the world and a full-service CRO with expertise in numerous therapeutic areas focused on supporting the biotech sector, particularly pancreatic cancer
- Prepared Angiography Guidelines
- Prepared Pharmacy Manual
- Selection process for vendor drug supply chain and storage completed



Investigational New Drug Application

IND Submission to FDA

- IND filed with FDA on September 1, 2020, to commence Phase 2b clinical trial in locally advanced, inoperable pancreatic cancer (LAPC)
- On October 1, 2020, received notice that the FDA had placed the IND on clinical hold
- On October 30, 2020, FDA sent a letter to PharmaCyte setting forth the reasons for the clinical hold and providing specific guidance on what we must do to have the clinical hold lifted

The Clinical Hold

- The list of items PharmaCyte must complete to have the clinical hold lifted is set forth in Appendix A
- Assembled a scientific and regulatory team of experts to address the FDA concerns
- Team is working to complete the list of items the FDA required of us. In varying stages
 of addressing the studies and acquiring the information requested by the FDA. A
 summary of our work is set forth in Appendix A

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Orphan Drug Status and IP Portfolio

FDA Granted Orphan Drug Designation for Pancreas Cancer Therapy

· Provides 7 years of market exclusivity in the U.S. upon FDA approval

EMA Granted Orphan Drug Designation for Pancreas Cancer Therapy

Provides 10 years of market exclusivity in the E.U. upon EMA approval

Eligible for Biologics Price Competition and Innovation Act

 Provides 12 years of market exclusivity in the U.S upon FDA approval. Similar laws in the E.U. provide market exclusivity

IP Portfolio and IP Protection Strategy

- Patent applications filed in the U.S., Australia and Canada to protect the genetically engineered cells that convert cancer prodrug for patient population
- Exclusive license world-wide for cancer therapy and diabetes therapy using encapsulated genetically modified human cells
- · Patents protect the Melligen cells
- · Follow-on patents expected to be filed for each product candidate
- · Encapsulation process uses unique patent-protected cellulose sulphate
- Trade secrets and know-how

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Malignant Ascites Fluid Accumulation

Targeted Chemotherapy to Treat Malignant Ascites

- · Malignant ascites fluid is secreted by abdominal tumors into the abdomen
- Contains cancer cells that can seed and form new tumors throughout the abdomen
- Accumulates in the abdominal cavity causing swelling of the abdomen, severe breathing difficulties and extreme pain
- · Must be removed on a periodic basis this is painful and costly
- No available therapy prevents or delays the production and accumulation of malignant ascites fluid
- Translational Drug Development (TD2) has conducted 8 preclinical studies to determine if PharmaCyte's cancer therapy can delay the production and accumulation of malignant ascites fluid from abdominal cancers
 - Data indicated the treatment might play such a role, but the conclusions were difficult to interpret with certainty
- PharmaCyte plans to conduct another preclinical study in Germany to determine if the TD2 conclusions are valid
- If successful, plan to seek FDA approval to conduct a Phase 1 study in U.S.



Diabetes Program

Bio-Artificial Pancreas for Diabetes

- PharmaCyte's Diabetes Program consists of encapsulating genetically modified cells (Melligen cells and stem cells) that produce insulin in proportion to a patient's blood glucose level and then implanting the capsules in the body to treat Type 1 diabetes and insulin-dependent Type 2 diabetes
- The Cell-in-a-Box® capsules protect the cells from immune system attack in the body and thus they function as a "bio-artificial pancreas" for the purpose of insulin production
- PharmaCyte has the exclusive world-wide license to use Melligen insulinproducing cells to treat diabetes
 - Melligen cells are human liver cells that have been genetically modified to produce, store and release insulin in response to concentrations of glucose in the body
 - Melligen cells have demonstrated the ability to reverse the diabetic condition in immunosuppressed diabetic mice

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Diabetes Program (cont'd)

- In the past, PharmaCyte's International Diabetes Consortium encountered difficulties related to the stability of the Melligen cells
- PharmaCyte then spent two years recreating a stable version of the Melligen cells
- UTS entered into an agreement with PharmaCyte to create a new, stable and advanced version of the Melligen cells
- Improvements will also be made to increase the insulin production of the Melligen cells and the bioactivity of the produced insulin

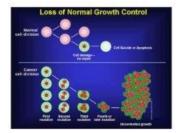


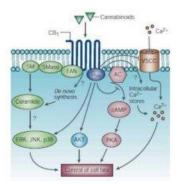


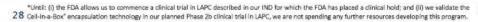
Cannabis Program*

Anti-Cancer Effects of Cannabinoids

- Properties of cannabinoids (THC and CBD):
 - o Anti-proliferative: slow tumor growth
 - o Anti-metastatic: slow tumor spread
 - Anti-angiogenic: slow blood vessel penetration
 - o Pro-apoptotic: initiate programmed cell death
- · In vitro and in vivo models
- · The anti-cancer effects of cannabinoids are broad:
 - Lung, brain, thyroid, lymphoma, liver, skin, pancreas, uterus, breast and prostate
- Review of 51 studies: "...cannabinoids could be useful in the treatment of cancer due to their ability to regulate cellular signaling pathways critical for cell growth and survival."









Cannabis Program (cont'd)*

Targeted Cannabinoid Chemotherapy

- PharmaCyte has an exclusive, worldwide license to use the Cell-in-a-Box® technology in combination with genetically modified cell lines designed to activate cannabinoid molecules for the treatment of diseases and their related symptoms
- Initial target glioblastoma (brain cancer) a difficult form of cancer to treat

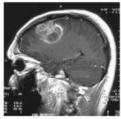


Cannabis-derived cannabinoid "prodrug"



Bio-engineered cell line encapsulated with Cellin-a-Box® produces activating enzyme





Targeted therapy "active" cannabinoid > cancer cell death

Until: (f) the FDA allows us to commence a clinical trial in LAPC described in our IND for which the FDA has placed a clinical hold; and (ii) we validate the PHARMACYTE 29 Cell-in-a-Box* encapsulation technology in our planned Phase 2b clinical trial in LAPC, we are not spending any further resources developing this program.

Cannabis Program (cont'd)

Research Program with University of Northern Colorado

- Initial goal was to develop methods for identification, separation and quantification of constituents of Cannabis which are prodrugs requiring activation. Methods have now been developed
- The focus of this aspect of the Cannabis Program is:
 - Confirming the anti-cancer activity of cannabinoids
 - Developing a cell capable of converting an inactive cannabinoid prodrug into its cancer-killing form. UTS has now genetically engineered such a cell
- Testing the efficiency of the transfected cells in converting cannabinoid prodrugs into their active cancer-killing forms
- Targeted cannabinoid-based chemotherapy would be accomplished by implanting the bio-engineered cells near the site of the tumor along with administration of a cannabinoid prodrug



Cannabis Program (cont'd)*

Development of Pain Therapy

- Chronic pain linked to restricted mobility, opioid dependency, anxiety, depression and reduced quality of life
- Estimated \$560 billion annually in direct costs, lost productivity and disability programs in U.S.
- Additional goal of Cannabis Program is to utilize Cell-in-a-Box* platform to deliver cannabinoid end-products to provide chronic pain relief

Until: (i) the FDA allows us to commence a clinical trial in LAPC described in our IND for which the FDA has placed a clinical hold; and (ii) we validate the PHARMACYTE 31 Cell-in-a-Box" encapsulation technology in our planned Phase 2b clinical trial in LAPC, we are not spending any further resources developing this



Leadership Team

Kenneth L. Waggoner, J.D. - Chief Executive Officer, President and General Counsel

- Over four decades of experience in law, management, operations and business
- · Senior partner with Brobeck, Phleger and Harrison, one of the top law firms worldwide providing services to biotechnology clients such as Chiron, Amgen, Biogen and Idec
- Represented Fortune 100 companies most of his professional career

Dr. Gerald W. Crabtree - Chief Scientific Officer

- Over 50 years experience in cancer research and all phases of cancer drug development
- · Particularly experienced in preclinical studies and clinical trials of cancer drugs
- Led preclinical development of Taxol a multibillion dollar drug for Bristol-Myers Squibb

Dr. José L. Iglesias - Chief Medical Officer for Clinical Trial in Pancreatic Cancer

- Key positions with Eli Lilly, Amgen, Abraxis, and Celgene
- Served as global Vice-President of Clinical Development at Celgene
- Led the team that obtained FDA approval for Abraxane®

Carlos A. Trujillo, CPA - Chief Financial Officer

- Has 36 years of experience in finance, accounting and management
- For the last thirteen years, he has been the Chief Financial Officer for privately held, publicly traded and multinational companies



Medical and Scientific Advisory Board

Dr. Matthias Löhr (Chairman)

- A world-renowned European oncologist/gastroenterologist at the Karolinska Institute in Stockholm, Sweden. Expert in the treatment of pancreas cancer and diabetes
- Served as Principal Investigator for the Phase 1/2 and Phase 2 clinical trials of PharmaCyte's pancreas cancer therapy

Dr. Manuel Hidalgo

- Internationally renowned oncologist and clinical investigator in pancreatic and other cancers
- Co-founder and Chairman of the international Pancreatic Cancer Research Team
- Assisted in the development of more than 30 novel oncology drugs
- Chief of the Division of Hematology and Medical Oncology at Weill Cornell Medicine and NewYork-Presbyterian/Weill Cornell Medical Center

Dr. Brian Salmons

- Co-inventor of the Cell-in-a-Box® live cell encapsulation technology
- President and CEO of Austrianova
- Accomplished scientist with over 120 publications in scientific journals

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Medical and Scientific Advisory Board (cont'd

Dr. Mark L. Rabe

- Leader in use of cannabis to treat diseases and their symptoms
- Served as Chief Medical Officer of California's largest network of physicianowned cannabis evaluation centers

David A. Judd

- Cellular biologist with the Grand Island Biological Company for over 30 years with particular expertise working with the cell line used in our pancreatic cancer therapy
- Has decades of experience culturing difficult to grow cells and troubleshooting cell growth in cell culture media

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Appendix A

FDA Guidance to Have Clinical Hold Lifted

- Provide additional sequencing data and genetic stability studies
- Conduct stability study on CypCaps™ and cells from MCB
- Evaluate the compatibility of the delivery devices (prefilled syringes and microcatheter used to implant CypCaps™) with our drug candidate
- Provide additional detailed description of the manufacturing process
- Provide additional CypCaps™ release specifications
- Demonstrate comparability between 1st generation (CapCells[®]) and 2nd generation (CypCaps[™]) of drug candidates and ensure adequate and consistent product performance and safety between the two generations of drug candidates
- Conduct biocompatibility assessment using the final finished capsules but without cells
- Address insufficiencies in Chemistry, Manufacturing and Controls information in the cross-referenced Drug Master File
- Conduct an additional nonclinical study to assess the safety, activity and distribution of CypCaps™



Appendix A (cont'd)

- Revise Investigators Brochure to include the preclinical studies conducted in response to the clinical hold and remove any statements not supported by the data
- Provide data from new pig toxicology study

The FDA requested we address the following issues as an amendment to the IND

- Provide a Certificate of Analysis for pc3/2B1 plasmid that includes tests for assessing purity, safety and potency
- Perform qualification studies for CypCaps filling process to ensure that the drug candidate remains sterile and stable during the process
- Submit an updated batch analysis for the drug candidate for the specific lot that will be used for manufacturing of all future drug candidates
- Provide additional details for the methodology for Resorufin (CYP2B1) potency and PrestoBlue metabolic assays
- Provide a few examples of common microcatheters that fit the specifications in our Angiography Procedure Manual
- Clarify the language in the Pharmacy Manual regarding proper use of the syringe fill with drug product
- Provide discussion with data for trial of the potential for cellular and humoral immune reactivity against the CYP2B1 protein in an animal study and potential for induction of autoimmune mediated toxicities in our trial population

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Appendix A (cont'd)

Scientific and Regulatory Team of Experts

Assembled a scientific and regulatory team of experts to address FDA's requests. Working to complete the items requested by FDA. At varying stages of addressing the studies and information requested by the FDA

- Successfully completed a 3, 6, 9 and 12-month stability study on CypCaps™. Next timepoint is 18 months
- Designed and commenced studies required by FDA including (i) a stability study on cells from our Master Cell Bank (MCB) used to manufacture CypCaps™; (ii) sequence analysis of DNA encoding of the CYP2B1 gene in CypCaps™; and (iii) reproducibility and quality of the filling of the MCB cells into vials ready for manufacture of CypCaps™
- Designed and, in some cases, commenced biocompatibility studies: (i) Acute Systematic
 Toxicity study; (ii) Ames test [Genotoxicity Bacteria and Reverse Mutation tests; (iii)
 Subchronic and Chronic study; (iv) Skin Sensitization study; (v) Complement Activation test;
 (vi) Intracutaneous test; (vii) Hemolysis test; (viii) In Vitro Cytotoxicity test; and (ix) In Vivo
 Micronucleus assay



Appendix A (cont'd)

- Austrianova manufactured and delivered 400 syringes of empty capsules to laboratory conducting biocompatibility studies
- Designed and commenced studies designed to show CypCaps™ were not adversely affected by catheters used by interventional radiologists to deliver CypCaps™ nor by contrast medium used to visualize blood vessels during implantation of CypCaps™
- Designed and commenced studies to demonstrate how robust the clinical trial product is during delivery and use as well as to document that the syringes used to deliver CypCaps™ allow delivery consistently, smoothly and safely
- With our support, Austrianova is providing additional confidential information to the FDA on the manufacturing process of CypCaps™, including information on improvements made to the live cell encapsulated product since the last clinical trials in Europe with respect to reproducibility and safety of CypCaps™

PHARMACYTE

Appendix A (cont'd)

- In the process of updating our IND submission documents to include (i) more preclinical data; (ii) additional parameters for release of CypCaps™; (iii) recommendation of the catheters and contrast medium to be used to deliver CypCaps™; and discussion of the potential for cellular and humoral immune reactivity against the CYP2B1 protein and potential for induction of autoimmune mediated toxicities in our clinical trial population
- Designed an abbreviated study in pigs to address biocompatibility and the effects of long-term implantation of the capsules
- Developed arguments to support our position that we should not be required to conduct a carcinogenicity study required by FDA

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Investor Relations

Contact Investor Relations for Further Information

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Thank you

