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IMMUCELL CORP /DE/ Form 424B3 November 29, 2018 Filed Pursuant to Rule 424(b)(3)
Registration No. 333-228479
Prospectus
IMMUCELL CORPORATION
\$20,000,000
Common Stock
Subscription Rights
From time to time, we may offer up to \$20,000,000.00 of our common stock and subscription rights, in one or more transactions.
We will provide specific terms of these securities and offerings in one or more supplements to this prospectus. We may also authorize one or more free writing prospectuses to be provided to you in connection with these offerings. The prospectus supplement, and any documents incorporated by reference, may also add, update or change information contained in this prospectus. You should read this prospectus, the applicable prospectus supplement, any documents incorporated by reference and any related free writing prospectus carefully before buying any of the securities being offered.

We may offer and sell these securities to or through one or more underwriters, dealers and agents, or directly to purchasers, on a continuous or delayed basis.

Our common stock is listed on the NASDAQ Capital Market under the symbol "ICCC." The aggregate market value of our outstanding common stock held by non-affiliates was approximately \$35,220,278 based on 5,484,728 shares of outstanding common stock, of which 1,584,365 shares are held by affiliates, and a price of \$9.03 per share, which was the last reported sale price of our common stock as quoted on NASDAQ Capital Market on October 9, 2018. With the exception of the sale of common stock on December 21, 2017 for proceeds aggregating \$3,049,991, we have not sold

any securities pursuant to General Instruction I.B.6 of Form S-3 during the prior 12 calendar month period that ends on, and includes, the date of this prospectus. No subscription rights that we may offer under this prospectus are currently publicly traded.

INVESTING IN OUR SECURITIES INVOLVES RISKS. YOU SHOULD REVIEW CAREFULLY THE RISKS AND UNCERTAINTIES DESCRIBED UNDER THE HEADING "RISK FACTORS" CONTAINED IN THE APPLICABLE PROSPECTUS SUPPLEMENT AND ANY RELATED FREE WRITING PROSPECTUS, AND UNDER SIMILAR HEADINGS IN THE OTHER DOCUMENTS THAT ARE INCORPORATED BY REFERENCE INTO THIS PROSPECTUS.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED THESE SECURITIES OR DETERMINED IF THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

The date of this prospectus is November 29, 2018.

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#### CAUTIONARY NOTE REGARDING FORWARD-LOOKING STATEMENTS

Some of the statements in this prospectus and in any prospectus supplement we may file constitute "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. These statements relate to future events concerning our business and to our future revenues, operating results and financial condition. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "could," "would," "should," "expect," "plan," "anticipate," "aim," "intend," "believe," "estimate," "targ "predict," "project", "propose," "potential," or "continue," or the negative of those terms or other comparable terminology.

Any forward-looking statements contained in this prospectus or any prospectus supplement are only estimates or predictions of future events based on information currently available to our management and management's current beliefs about the potential outcome of future events. Whether these future events will occur as management anticipates, whether we will achieve our business objectives, and whether our revenues, operating results or financial condition will be sustained or improve in future periods are subject to numerous risks. There are a number of important factors that could cause actual results to differ materially from the results anticipated by these forward-looking statements. These important factors include those that we discuss under the heading "Risk Factors" and in other sections of our Annual Report on Form 10-K for the year ended December 31, 2017 and our Form 10-Q for the quarterly period ended September 30, 2018, all filed with the Securities and Exchange Commission ("SEC"), as well as in our other reports filed from time to time with the SEC that are incorporated by reference into this prospectus. You should read these factors and the other cautionary statements made in this prospectus and in the documents we incorporate by reference into this prospectus as being applicable to all related forward-looking statements wherever they appear in this prospectus or the documents we incorporate by reference into this prospectus. If one or more of these factors materialize, or if any underlying assumptions prove incorrect, our actual results, performance or achievements may vary materially from any future results, performance or achievements expressed or implied by these forward-looking statements. We undertake no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

#### **ABOUT THIS PROSPECTUS**

This document is called a prospectus and is part of a registration statement that we have filed with the SEC, using a "shelf" registration process. Under this shelf registration process, we may, from time to time, offer and sell any combination of the securities described in this prospectus in one or more transactions and in amounts we will determine from time to time, up to a total dollar amount of \$20,000,000.00.

This prospectus provides you with a general description of ImmuCell Corporation and potential offerings of our securities described herein. Each time we offer securities we will provide a prospectus supplement or information that is incorporated by reference into this prospectus, containing more specific information about the offering. We may

also authorize one or more free writing prospectuses to be provided to you that may contain material information relating to these offerings. This prospectus, together with applicable prospectus supplements, any information incorporated by reference and any related free writing prospectuses, includes all material information relating to these offerings. We may also add, update or change in the prospectus supplement any of the information contained in this prospectus or in the documents that we have incorporated by reference into this prospectus, including, without limitation, a discussion of any risk factors or other special considerations that apply to these offerings or the specific plan of distribution. If there is any inconsistency between the information in this prospectus and a prospectus supplement or information incorporated by reference having a later date, you should rely on the information in that prospectus supplement or incorporated information having a later date. We urge you to read carefully this prospectus, any applicable prospectus supplement and any related free writing prospectus, together with the information incorporated herein by reference as described under the heading "Where You Can Find More Information," before buying any of our securities.

You should rely only on the information we have provided or incorporated by reference in this prospectus, any applicable prospectus supplement and any related free writing prospectus. We have not authorized anyone to provide you with different information. No dealer, salesperson or other person is authorized to give any information or to represent anything not contained in this prospectus, any applicable prospectus supplement or any related free writing prospectus.

Neither the delivery of this prospectus nor any sale made under it implies that there has been no change in our affairs or that the information in this prospectus is correct as of any date after the date of this prospectus. You should assume that the information in this prospectus, any applicable prospectus supplement or any related free writing prospectus is accurate only as of the date on the front of the document and that any information we have incorporated by reference is accurate only as of the date of the document incorporated by reference, regardless of the time of delivery of this prospectus, any applicable prospectus supplement or any related free writing prospectus, or any sale of common stock.

This prospectus contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus is a part, and you may obtain copies of those documents as described below under "Where You Can Find More Information". THIS PROSPECTUS MAY NOT BE USED TO CONSUMMATE A SALE OF SECURITIES, UNLESS IT IS ACCOMPANIED BY A PROSPECTUS SUPPLEMENT.

In this prospectus, unless the context otherwise requires, references to "we", "us", "our" or similar terms, as well as references to "ImmuCell" or the "Company", refer to ImmuCell Corporation.

#### ABOUT IMMUCELL CORPORATION

We are a growing animal health company whose purpose is to create scientifically-proven and practical products that result in a measurable economic impact on animal health and productivity in the dairy and beef industries. We were originally incorporated in Maine in 1982 and reincorporated in Delaware in 1987, in conjunction with our initial public offering of common stock. We have developed products that provide **Immediate Immunity** to newborn dairy and beef cattle and are in the late stages of developing a new product that addresses mastitis, the most significant cause of economic loss to the dairy industry.

Our total product sales during the year ended December 31, 2017 increased by 9%, or \$887,000, to \$10.4 million from \$9.5 million in 2016, and gross margin as a percentage of product sales was 50% in 2017, as compared to 57% during

2016. Total product sales during the nine-month period ended September 30, 2018 increased by 10%, or \$751,000, to \$8 million from \$7.3 million during the same period in 2017, and gross margin as a percentage of product sales was 47% during the 2018 period, as compared to 55% during 2017. Growth in sales of our lead product, the **First Defense**® product line, is driving the increase in our total product sales. Sales of the **First Defense**® product line aggregated 94% and 93% of our total product sales during the years ended December 31, 2017 and 2016, respectively. Sales of the **First Defense**® product line increased by 11% and 36% during the years ended December 31, 2017 and 2015 and decreased by 7% during the year ended December 31, 2016, respectively, in comparison to the prior years. Sales of the **First Defense**® product line aggregated 97% and 94% of our total product sales during the nine-month periods ended September 30, 2018 and 2017, respectively. Sales of the **First Defense**® product line increased by 14% during the nine-month period ended September 30, 2018 in comparison to the same period during 2017.

The **First Defense**® product line is manufactured from hyperimmune cows' colostrum (the milk that a cow produces immediately after giving birth) utilizing our proprietary vaccine and milk protein purification technologies. The target disease, bovine enteritis (calf scours), causes diarrhea and dehydration in newborn calves and often leads to serious sickness and even death. **First Defense**® provides bovine antibodies that newborn calves need but are unable to produce on their own immediately after birth. Our milk antibody products provide **Immediate Immunity** during the first few critical days of life when calves need this protection most. Studies have shown that calves that scour are more susceptible to other diseases later in life and under-perform calves that do not contract scours. The original **First Defense**® product in a bivalent capsule form was licensed by the U.S. Department of Agriculture (USDA) with claims against *E. coli* and coronavirus (two leading causes of scours) in 1991. In late 2017, the USDA approved a trivalent version of the product (known as **Tri-Shield First Defense**®) with claims against rotavirus as well as *E. coli* and coronavirus. We are rebranding the bivalent versions of our product as **Dual-Force**\***First Defense**®, which we continue to market as options for customers who don't perceive rotavirus as a threat to their herds or prefer the bivalent capsule. **Tri-Shield**® has also been approved for sale in Canada. We do not plan to introduce **Tri-Shield**® to the Canadian market until we have met domestic demand.

Beginning early in 2015 and extending through the middle of 2016, we experienced order backlog affecting our ability to meet customer demand for First Defense<sup>®</sup>, which disrupted our normal product shipping patterns for the first time. In response, we completed investments necessary to increase our liquid processing capacity by 50% during the fourth quarter of 2015 and our freeze drying capacity by 100% during the first quarter of 2016. This expanded production capacity has the potential to produce product with an annual sales value of approximately \$17 million. The actual value of the production output will vary subject to product yields, selling price and product format mix. Since the third quarter of 2016 and through most of 2017, we had sufficient available inventory and were shipping in accordance with the current demand of our distributors. However, during the first quarter of 2018, we incurred a backlog of orders for the second time, as sales demand for **Dual-Force** First **Defense**® exceeded available inventory. As of March 31, 2018, we had a backlog of orders for **Dual-Force** Worth approximately \$901,000, which we filled during the second quarter of 2018. In order to produce more doses quickly to clear the 2015/2016 order backlog, we had significantly increased the quantity of our supply of colostrum. The 2018 backlog problem was largely caused by a reduction in the biological yield from this new milk supply in addition to other factors. To address the inherent variability in our biological yields, among other process improvements, we are working to optimize the mix of early milk that is rich with antibodies and later milk that contains less antibodies. With the improved production methods to increase yields and the enhanced manufacturing redundancies that we have implemented, we are rebuilding target inventory levels of **Dual-Force**<sup>™</sup> to again consistently supply product to the market.

Tri-Shield First Defense® is the first calf-level, passive antibody product on the market with USDA-approved disease claims providing **Immediate Immunity** against each of the three leading causes of calf scours (*E. coli*, coronavirus and rotavirus) and is sold in gel tube delivery format. This unique breadth of claims further differentiates our products from competitive products on the market. Of the products given to newborn calves to prevent scours, Calf-Guard® from Zoetis is the market leader in terms of doses sold. This product has claims against coronavirus and rotavirus (but not *E. coli*). With the addition of a rotavirus claim for **Tri-Shield**®, we now compete more effectively against Calf-Guard® and other scours preventatives given to newborn calves. Historically, the primary tool to help combat scours has been to vaccinate the cow with a dam-level scours vaccine to increase the antibody level against specific scours-causing pathogens in the colostrum that she produces for her newborn. With this expanded claim set, we can compete more effectively against these dam-level vaccine products that are given to the mother cow. It is generally believed that only 80% of animals respond to a vaccine, which could leave about 20% of calves unprotected. This variability in a cow's immune response to vaccines (that can impact our costs of goods sold when we immunize our source cows to produce the antibodies used in our production process) creates a sales opportunity for our product. Additionally, our research suggests that treatment protocols for dam-level scours vaccine programs are not always followed, leaving even more calves compromised. Our new marketing campaign, Beyond Vaccination®, suggests that by delivering immediate immunity directly to the calf via Tri-Shield®, producers can reduce stress-causing injections to the cow and save the associated labor for vaccines that are more critical to cow health. Reliance on a dam-level scours vaccine requires that money be spent before it is known whether the cow is carrying a viable, valued calf. With Tri-Shield®, every calf is equally protected and that investment can be targeted to the calves that are most critical to the operation. This, in turn, can free up space in the cow's vaccination schedule to optimize her immune response to vaccines that are critical to her health. We estimate that the total market for scours preventative products (including sales of our product) that are given to newborn calves (the calf-level market) is approximately \$18 million annually. We estimate that the dam-level product category covers approximately twice as many calves as the calf-level product segment reaches.

Soon after regulatory approval of **Tri-Shield First Defense**<sup>®</sup> was obtained during the fourth quarter of 2017, we quickly sold out of our initial launch quantities. During the first quarter of 2018, market demand for Tri-Shield® quickly exceeded our available inventory. Production has not kept pace with demand primarily because of the difficulty in producing enough of the new, complex rotavirus vaccine that is used to immunize our source cows at commercial scale. Simply put, the complex vaccine production process used to obtain regulatory approval required significant additional process development work and optimization to meet large-scale production needs. As of March 31, 2018, the backlog of orders for this new product increased to approximately \$344,000. While the backlog of orders was worth approximately \$327,000 as of June 30, 2018 and \$301,000 as of September 30, 2018, we do not think these are meaningful figures because currently we are not actively soliciting all orders possible given the short supply situation and because we believe many distributors are holding off on placing orders until we have the supply situation under better control. While this backlog is a problem and could adversely impact customer relations and result in lost sales, it is also a positive indication that the market is accepting our new product offering. Given this shortage of supply, we have had to change our market launch strategy for **Tri-Shield**<sup>®</sup>. We have pivoted away from a mass-market launch and are working with distribution partners to allocate the limited supply to influential end-users and veterinarians capable of collecting field data that could help us re-launch **Tri-Shield**® both in the United States and Canada as soon as production issues are resolved and adequate inventory is on hand, which is anticipated to be during the middle of 2019. Sales of **Tri-Shield**<sup>®</sup> were approximately \$250,000, \$236,000, \$216,000 and \$252,000 during the fourth quarter of 2017, the first quarter of 2018, the second quarter of 2018 and the third quarter of 2018. respectively. We are satisfied that we are successfully addressing the vaccine production and biological yield issues pertaining to the production of this new product. During the fourth quarter of 2018, we expect to be able to produce product with a sales value of approximately \$500,000.

The majority of our product development budget from 2000 through 2018 has been focused on the development of a Nisin-based intramammary treatment of subclinical mastitis in lactating dairy cows. During the 18.75-year period that began on January 1, 2000 (the year we began the development of our mastitis drug) and ended on September 30, 2018, we invested the aggregate of approximately \$36.3 million in the development of this product. This figure includes approximately \$15.1 million of product development expenses (not including depreciation expense related to the production facility and equipment), approximately \$20.8 million of capital expenditures for the production facility and equipment and \$329,000 for land. This estimated allocation of product development expenses reflects only direct expenditures and includes no allocation of product development or administrative overhead expenses. Approximately \$2.9 million of this investment was offset by product licensing revenues and grant income.

It is difficult to estimate the potential size of the market for the treatment of subclinical mastitis because this disease is largely left untreated presently. We believe that approximately 20-30% of the U.S. dairy herd is affected by subclinical mastitis caused by Gram-positive organisms falling within the claim spectrum of our product. This compares to approximately 2% of the U.S. herd that is thought to be infected with clinical mastitis, where approximately \$60 million per year is spent on drug treatments. We believe that similar market opportunities also exist outside of the United States and for the treatment of dry (non-lactating) cows. We estimate that the market potential for first year sales of our new mastitis product could be approximately \$5.8 million and could grow to approximately \$36.1 million during the fifth year after market launch.

During the fourth quarter of 2017, we completed construction of the building that houses our Nisin production facility, and during the third quarter of 2018 we completed equipping that facility, at an aggregate cost of approximately \$20.8 million. This expansion was funded through a combination of net proceeds from common stock issuances totaling \$12.2 million (2016-17), debt financing from TD Bank, N.A. totaling \$6.8 million (2016-18) and cash generated from operations. The production capacity of our facility could meet annual sales demand of approximately \$10 million. This facility was constructed with enough room to add a second fermentation and recovery portion of the product line to be purchased and installed at a cost of approximately \$7 million to effectively double production output. We would consider this investment only after commercial acceptance of the product is demonstrated. If annual sales of our mastitis product exceed approximately \$20 million, we would evaluate all Nisin supply options, factoring in efficiencies and yield improvements. Building an additional Nisin production facility to meet our needs at that time may be the most cost-effective solution.

Nisin is an antibacterial peptide that has been demonstrated in clinical studies to be an effective aid in the reduction of mastitis-causing organisms in dairy cows. Mastitis is a very common infection in dairy cows that results in inflammation of the mammary gland. Because dairy producers are required to discard milk for a period during and after treatment with all currently marketed mastitis treatment products due to concerns about antibiotic residue in milk, it is generally current practice to only treat mastitis when the disease has progressed to the clinical stage where the milk from an infected cow cannot be sold. We believe that our Nisin-based treatment could revolutionize the way that mastitis is treated by making earlier treatment of subclinically infected cows economically feasible by not requiring a milk discard during, or for a period of time after, treatment. No other FDA-approved mastitis treatment product on the market can offer this value proposition. Commercial introduction of our mastitis product in the United States is subject to approval of our New Animal Drug Application (NADA) by the U.S. Food and Drug Administration's Center for Veterinary Medicine (FDA), which approval cannot be assured. During the third quarter of 2018, the FDA issued to us a Technical Section Complete Letter for the Human Food Safety Technical Section of our NADA for the mastitis product (the fourth of five required Technical Section Complete Letters), leaving only the manufacturing Technical Section (known as the Chemistry, Manufacturing and Controls (CMC) Technical Section) remaining for product approval and launch. We anticipate making the first submission of the CMC Technical Section (Drug Substance only) during the fourth quarter of 2018; it will be subject to a six-month FDA review period. We plan to make a second submission of the CMC Technical Section (which would be responsive to the anticipated Incomplete Letter from the first submission and also include the Drug Product requirements) promptly after the first review by the FDA is complete. This second submission would also be subject to a six-month FDA review period. Adherence to this timeline could set us up for possible product approval during late 2019 or the first half of 2020. Foreign regulatory approvals would be required for sales in key markets outside of the United States, which would involve some similar and some different requirements. We have not yet initiated any such foreign approval efforts.

With a measured approach to expanding our customer-facing staff, it is our objective to double our current level of product sales to approximately \$20 million through both continued growth in sales of the **First Defense**® product line (including **Tri-Shield**®) and a successful launch of our novel mastitis treatment as soon as possible. As market penetration for both new products is achieved and additional resources are dedicated to sales, marketing and technical services, our longer-term goal is to reach the \$30 million level of product sales as soon as possible during the five-year period after the market launch of our new mastitis product.

Our principal executive offices are located at 56 Evergreen Drive, Portland, ME 04103. Our telephone number is (207) 878-2770. Our website is located at www.immucell.com. Information contained on, or that can be accessed through, our website is not part of this prospectus.

#### WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed with the SEC a registration statement on Form S-3 under the Securities Act of 1933, as amended ("Securities Act"), with respect to the securities covered by this prospectus. This prospectus, which is a part of the registration statement, does not contain all of the information set forth in the registration statement or the exhibits and

schedules filed therewith. For further information with respect to us and the securities covered by this prospectus, please see the registration statement and the exhibits filed with the registration statement. A copy of the registration statement and the exhibits filed with the registration statement may be inspected without charge at the Public Reference Room maintained by the SEC, located at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for more information about the operation of the Public Reference Room. The SEC also maintains a website that contains reports, proxy and information statements and other information regarding registrants that file electronically with the SEC. The address of the website is http://www.sec.gov.

We are subject to the information and periodic reporting requirements of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and, in accordance therewith, we file periodic reports, proxy statements and other information with the SEC. Such periodic reports, proxy statements and other information are available for inspection and copying at the Public Reference Room and website of the SEC referred to above. We maintain a website at www.immucell.com. You may access our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K and amendments to those reports filed pursuant to Sections 13(a) or 15(d) of the Exchange Act with the SEC free of charge at our website as soon as reasonably practicable after such material is electronically filed with, or furnished to, the SEC. Our website and the information contained on that site, or connected to that site, are not incorporated into and are not a part of this prospectus.

#### INCORPORATION OF INFORMATION BY REFERENCE

The SEC allows us to "incorporate by reference" the information we file with it, which means that we can disclose important information to you by referring you to those documents. The information we incorporate by reference is an important part of this prospectus, and certain information that we will later file with the SEC will automatically update and supersede this information. We incorporate by reference the documents listed below, as well as any future filings made with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act from the date of the initial registration statement and prior to the effectiveness of this registration statement, and any filings made after the date of this prospectus until we sell all of the securities under this prospectus, except that we do not incorporate any document or portion of a document that was furnished and deemed by the rules of the SEC not to have been filed:

Our Annual Report on Form 10-K for the fiscal year ended December 31, 2017, filed with the SEC on March 29, 2018;

Our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2018, June 30, 2018 and September 30, 2018, filed with the SEC on May 14, 2018, August 13, 2018 and November 13, 2018, respectively;

Our Current Reports on Form 8-K filed with the SEC on February 1, 2018, February 8, 2018, May 14, 2018, June 18, 2018, July 10, 2018, July 25, 2018, August 13, 2018, September 26, 2018 and November 13, 2018;

Our definitive proxy statement on Schedule 14A filed on April 30, 2018 for our annual meeting of shareholders held on June 14, 2018;

Our Form 8-A filed with the SEC on March 18, 1987 with respect to our common stock; and

Our Form 8-A filed with the SEC on September 13, 1995, as amended by Form 8-A/A filed with the SEC on July 1, 2008, with respect to our common stock purchase rights.

Additionally, all reports and other documents subsequently filed by us pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act after (i) the date of the initial registration statement and prior to effectiveness of the registration statement; and (ii) the date of this prospectus and prior to the termination or completion of this offering, shall be deemed to be incorporated by reference in this prospectus and to be part hereof from the date of filing of such reports and other documents. Any information that we subsequently file with the SEC that is incorporated by reference as described above will automatically update and supersede any previous information that is part of this prospectus.

We hereby undertake to provide without charge to each person, including any beneficial owner, to whom a copy of this prospectus is delivered, upon written or oral request of any such person, a copy of any and all of the information that has been or may be incorporated by reference in this prospectus, other than exhibits to such documents. Requests for such copies should be directed to our Corporate Secretary at 56 Evergreen Drive, Portland, ME 04103. Our telephone number is (207) 878-2770.

#### RISK FACTORS

Investing in our securities involves significant risks. You should review carefully the risks and uncertainties described under the heading "Risk Factors" contained in, or incorporated into, the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference herein or therein. Each of the referenced risks and uncertainties could adversely affect our business, operating results and financial condition, as well as adversely affect the value of an investment in our securities. Additional risks not known to us or that we believe are immaterial may also adversely affect our business, operating results and financial condition and the value of an investment in our securities.

#### DESCRIPTION OF COMMON STOCK

We may offer, from time to time, shares of our common stock 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 our common stock. Each time we offer common stock, we will provide a prospectus supplement that will describe the specific amounts, and prices of the common stock. The prospectus supplement and any related free writing prospectus also may supplement or, as applicable, add, update or change information contained in this prospectus or in documents we have incorporated by reference. The terms of any particular offering, the initial offering price and the net proceeds to us will be contained in the prospectus supplement, information incorporated by reference or free writing prospectus relating to such offering.

The description below of our common stock and provisions of our certificate of incorporation and bylaws are summaries and are qualified by reference to the certificate of incorporation and the bylaws. These documents are filed as exhibits to the registration statement of which this prospectus is a part.

Our authorized capital stock consists of 11,000,000 shares of common stock. As of November 19, 2018 there were approximately 5,485,000 shares of common stock outstanding.

#### **Common Stock**

The holders of common stock are entitled to receive ratable dividends, if any, as may be declared from time to time by the Board of Directors out of funds legally available for that purpose. In the event of our liquidation, dissolution or winding up, whether voluntary or involuntary, the holders of common stock are entitled to share ratably in all assets remaining after payment of or provision for liabilities. The common stock has no preemptive or conversion rights or other subscription rights. There are no redemption or sinking fund provisions applicable to the common stock. All outstanding shares of common stock are fully paid and nonassessable, and the shares of common stock to be issued upon the closing of this offering will be fully paid and nonassessable.

The holders of common stock are entitled to one vote per share on all matters to be voted upon by the shareholders. There is no cumulative voting.

Effect of Certain Provisions of our Certificate of Incorporation, Bylaws and Common Stock Rights Plan

Provisions of our certificate of incorporation, our bylaws, our Common Stock Rights Plan or Delaware law may discourage, delay or prevent a merger, acquisition or other change in control that stockholders may consider favorable, including transactions in which stockholders might otherwise receive a premium for their shares of our common stock. These provisions may also prevent or frustrate attempts by our stockholders to replace or remove our management. These provisions include:

limitations on the removal of directors; advance notice requirements for stockholder proposals and nominations;

the ability of our Board of Directors to alter or repeal our bylaws;

the ability of our Board of Directors to refuse to redeem rights issued under our Common Stock Rights Plan or otherwise to limit or suspend its operation that would work to dilute the stock ownership of a potential hostile acquirer, likely preventing acquisitions that have not been approved by our Board of Directors; and

Section 203 of the Delaware General Corporation Law, which prohibits a publicly-held Delaware corporation from engaging in a business combination with an interested stockholder (generally defined as a person which together with its affiliates owns, or within the last three years has owned, 15% of our voting stock, for a period of three years after the date of the transaction in which the person became an interested stockholder) unless the business combination is approved in a prescribed manner.

The existence of the foregoing provisions and anti-takeover measures could depress the trading price of our common stock or limit the price that investors might be willing to pay in the future for shares of our common stock. They could also deter potential acquirers of our Company, thereby reducing the likelihood of obtaining a premium for our common stock in an acquisition.

These provisions, summarized below, are expected to discourage coercive takeover practices and inadequate takeover bids and to promote stability in our management. These provisions are also designed to encourage persons seeking to acquire control of us to first negotiate with our Board of Directors.

<u>Shareholder Meetings</u>. Our bylaws provide that a special meeting of shareholders may be called only by the President or by the Board of Directors or by shareholders holding a majority of the outstanding shares of our common stock.

Requirements for Advance Notification of Shareholder Nominations and Proposals. Our bylaws establish advance notice procedures with respect to shareholder proposals and the nomination of candidates for election as directors, other than nominations made by or at the direction of our Board of Directors or a committee of the Board of Directors.

<u>Board of Directors Vacancies</u>. Under our bylaws, any vacancy on the Board of Directors, including a vacancy resulting from an enlargement of the Board of Directors, may only be filled by vote of a majority of the remaining directors. Any director may be removed by vote of the holders of a majority of the outstanding shares of our common stock. The limitations on the removal of directors and filling of vacancies would have the effect of making it more difficult for a third party to acquire control of us, or of discouraging a third party from acquiring control of us.

<u>Board of Directors Size</u>. Within the range specified by our bylaws, our Board of Directors determines the size of our Board of Directors and may create new directorships and elect new directors, which may enable an incumbent Board of Directors to maintain control by adding directors.

<u>Indemnification</u>. Our certificate of incorporation and our bylaws, as amended, provide that we will indemnify officers and directors against losses as they incur in investigations and legal proceedings resulting from their services to us, which may include service in connection with takeover defense measures.

In September 1995, our Board of Directors adopted a Common Stock Rights Plan and declared a dividend of one common share purchase right (a "Right") for each of the then outstanding shares of the common stock of the Company. Each Right entitles the registered holder to purchase from the Company one share of common stock at an initial purchase price of \$70.00 per share, subject to adjustment. The description and terms of the Rights are set forth in a Rights Agreement between the Company and American Stock Transfer & Trust Company, LLC, as Rights Agent.

The Rights (as amended) become exercisable and transferable apart from the common stock upon the earlier of i) 10 days following a public announcement that a person or group (Acquiring Person) has, without the prior consent of the Continuing Directors (as such term is defined in the Rights Agreement), acquired beneficial ownership of 20% or more of the outstanding common stock or ii) 10 days following commencement of a tender offer or exchange offer the consummation of which would result in ownership by a person or group of 20% or more of the outstanding common stock (the earlier of such dates being called the Distribution Date).

Upon the Distribution Date, the holder of each Right not owned by the Acquiring Person would be entitled to purchase common stock at a discount to the initial purchase price of \$70.00 per share, effectively equal to one half of the market price of a share of common stock on the date the Acquiring Person becomes an Acquiring Person. If, after the Distribution Date, the Company should consolidate or merge with any other entity and the Company were not the surviving company, or, if the Company were the surviving company, all or part of the Company's common stock were changed or exchanged into the securities of any other entity, or if more than 50% of the Company's assets or earning power were sold, each Right would entitle its holder to purchase, at the Rights' then-current purchase price, a number of shares of the acquiring company's common stock having a market value at that time equal to twice the Right's exercise price.

At any time after a person or group becomes an Acquiring Person and prior to the acquisition by such person or group of 50% or more of the outstanding common stock, the Board of Directors of the Company may exchange the Rights (other than Rights owned by such person or group which have become void), in whole or in part, at an exchange ratio of one share of common stock per Right (subject to adjustment). At any time prior to 14 days following the date that any person or group becomes an Acquiring Person (subject to extension by the Board of Directors), the Board of Directors of the Company may redeem the then outstanding Rights in whole, but not in part, at a price of \$0.005 per Right, subject to adjustment.

On June 8, 2005, our Board of Directors voted to authorize an amendment of the Rights Agreement to extend the Final Expiration Date by an additional three years, to September 19, 2008. As of June 30, 2005, we entered into an amendment to the Rights Agreement with the Rights Agent reflecting such extension. On June 6, 2008 our Board of Directors voted to authorize an amendment of the Rights Agreement to extend the Final Expiration Date by an additional three years, to September 19, 2011, and to increase the ownership threshold for determining "Acquiring Person" status from 15% to 18%. As of June 30, 2008, we entered into an amendment to the Rights Agreement with the Rights Agent reflecting such extension and threshold increase. On August 5, 2011, our Board of Directors voted to authorize amendments of the Rights Agreement to extend the Final Expiration Date by an additional three years to September 19, 2014 and to increase the ownership threshold for determining "Acquiring Person" status from 18% to 20%. As of August 9, 2011, we entered into an amendment to the Rights Agreement with the Rights Agent reflecting such extension and threshold increase. On June 10, 2014, our Board of Directors voted to authorize an amendment to the Rights Agreement to extend the final expiration date by an additional three years to September 19, 2017. As of June 16, 2014, we entered into an amendment to the Rights Agreement with the Rights Agent reflecting such extension. As of April 15, 2015, we entered into an amendment to the Rights Agreement with the Rights Agent deleting the provisions requiring that redemptions of the Rights, waivers or consents avoiding "Acquiring Person" status or certain amendments to the Rights Agreement be approved by "Continuing Directors". On June 15, 2017, our Board of Directors voted to authorize an amendment to the Rights Agreement to extend the final expiration date by an additional five years to September 19, 2022. As of August 10, 2017, we entered into an amendment to the Rights Agreement with the Rights Agent reflecting such extension. No other changes have been made to the terms of the Rights or the Rights Agreement.

Our Board of Directors believes that there is some risk that the potential value of the mastitis product development initiative and the potential value of our broadened **First Defense**® product line offerings are not fairly reflected in the market price of our common stock, as it fluctuates from time to time, and that opportunistic buyers could take advantage of that disparity to the detriment of our stockholders. If this were to happen and result in a potential threat through an unsolicited acquisition effort or otherwise, our Board of Directors feels that the Common Stock Rights Plan could enhance stockholder value by providing management with negotiating leverage.

#### Listing

Our common stock is listed on the NASDAQ Capital Market under the symbol "ICCC".

#### **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, LLC.

#### **DESCRIPTION OF SUBSCRIPTION RIGHTS**

We may issue to our shareholders subscription rights to purchase our common stock. The following description sets fourth certain general terms and provisions of the subscription rights that we may offer pursuant to this prospectus. The particular terms of the subscription rights and the extent, if any, to which the general terms and provisions may apply to the subscription right so offered will be described in the applicable prospectus supplement.

Subscription rights may be issued independently or together with any other security offered by this prospectus and may or may not be transferable by the shareholder receiving the rights in the rights offering. In connection with any rights offering, we may enter into a standby underwriting agreement with one or more underwriters pursuant to which the underwriter will purchase any securities that remain unsubscribed for upon completion of the rights offering, or offer these securities to other parties who are not our shareholders. A copy of the form of subscription rights certificate will be filed with the SEC each time we issue subscription rights, and you should read that document for provisions that may be important to you. For more information on how you can obtain a copy of any subscription rights certificate, see "Where You Can Find More Information."

The applicable prospectus supplement relating to any subscription rights will describe the terms of the offered subscription rights, including, where applicable, the following:
the exercise price for the subscription rights;
the number of subscription rights issued to each shareholder;
the extent to which the subscription rights are transferable;
any other terms of the subscription rights, including terms, procedures and limitations relating to the exchange and exercise of the subscription rights;
the date on which the right to exercise the subscription rights will commence and the date on which the right will expire;
the extent to which the subscription rights include an over-subscription privilege with respect to unsubscribed securities; and
the material terms of any standby underwriting arrangement entered into by us in connection with the subscription rights offering.
USE OF PROCEEDS
Unless otherwise indicated in the applicable prospectus supplement, information incorporated by reference or free writing prospectus, we intend to use the net proceeds from the sale of our securities to fund our growth plans, to possibly repay some of our indebtedness, for working capital, and for other general corporate purposes, including

# PLAN OF DISTRIBUTION

capital expenditures related to our growth.

We may sell the securities offered by this prospectus from time to time in one or more transactions, including, without limitation:

through agents;
to or through underwriters;
through broker-dealers (acting as agent or principal);
directly by us to purchasers (including our affiliates and shareholders), through a specific bidding or auction process, a rights offering or otherwise;
through a combination of any such methods of sale; or
through any other methods described in a prospectus supplement.
The distribution of securities may be effected, from time to time, in one or more transactions, including:
block transactions (which may involve crosses) and transactions on the NASDAQ Capital Market or any other organized market where the common stock may be traded;
purchases by a broker-dealer as principal and resale by the broker-dealer for its own account pursuant to a prospectus supplement;
ordinary brokerage transactions and transactions in which a broker-dealer solicits purchasers;
sales "at the market" to or through a market maker or into an existing trading market, on an exchange or otherwise; and
sales in other ways not involving market makers or established trading markets, including direct sales to purchasers.

The securities may be sold at a fixed price or prices, which may be changed, or at market prices prevailing at the time of sale, at prices relating to the prevailing market prices or at negotiated prices. The consideration may be cash or another form negotiated by the parties. Agents, underwriters or broker-dealers may be paid compensation for offering and selling the securities. That compensation may be in the form of discounts, concessions or commissions to be received from us or from the purchasers of the securities. Dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts and commissions under the Securities Act. If such dealers or agents were deemed to be underwriters, they may be subject to statutory liabilities under the Securities Act.

We may also make direct sales through subscription rights distributed to our existing shareholders on a pro rata basis, which may or may not be transferable. In any distribution of subscription rights to our shareholders, if all of the underlying common stock is not subscribed for, we may then sell the unsubscribed common stock directly to third parties or may engage the services of one or more underwriters, dealers or agents, including standby underwriters, to sell the unsubscribed common stock to third parties. We may pay the standby underwriters a commitment fee for the common stock they commit to purchase on a standby basis.

Agents may, from time to time, solicit offers to purchase the securities. If required, we will name in the applicable prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, any agent involved in the offer or sale of the securities and set forth any compensation payable to the agent. Unless otherwise indicated, any agent will be acting on a best efforts basis for the period of its appointment. Any agent selling the securities covered by this prospectus may be deemed to be an underwriter of the securities.

If underwriters are used in an offering, securities will be acquired by the underwriters for their own account and may be resold, from time to time, in one or more transactions, including negotiated transactions, at a fixed public offering price or at varying prices determined at the time of sale, or under delayed delivery contracts or other contractual commitments. Securities may be offered to the public either through underwriting syndicates represented by one or more managing underwriters or directly by one or more firms acting as underwriters. If an underwriter or underwriters are used in the sale of securities, an underwriting agreement will be executed with the underwriter or underwriters at the time an agreement for the sale is reached. The applicable prospectus supplement will set forth the managing underwriter or underwriters, as well as any other underwriter or underwriters, with respect to a particular underwriters and dealers and the public offering price, if applicable. This prospectus, the applicable prospectus supplement and any applicable free writing prospectus will be used by the underwriters to resell the securities.

If a dealer is used in the sale of the securities, we, or an underwriter, will sell the securities to the dealer, as principal. The dealer may then resell the securities to the public at varying prices to be determined by the dealer at the time of resale. To the extent required, we will set forth in the prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, the name of the dealer and the terms of the transactions.

We may directly solicit offers to purchase the securities and may make sales of securities directly to institutional investors or others. These persons may be deemed to be underwriters with respect to any resale of the securities. To the extent required, the prospectus supplement, document incorporated by reference or free writing prospectus, as applicable, will describe the terms of any such sales, including the terms of any bidding or auction process, if used.

Agents, underwriters and dealers may be entitled under agreements which may be entered into with us to indemnification by us against specified liabilities, including liabilities incurred under the Securities Act, or to contribution by us to payments they may be required to make in respect of such liabilities. If required, the prospectus supplement, documents incorporated by reference or free writing prospectus, as applicable, will describe the terms and conditions of such indemnification or contribution. Some of the agents, underwriters or dealers, or their affiliates may be customers of, engage in transactions with or perform services for us or our subsidiaries or affiliates in the ordinary course of business.

Under the securities laws of some states, the securities offered by this prospectus may be sold in those states only through registered or licensed brokers or dealers.

Any person participating in the distribution of securities registered under the registration statement that includes this prospectus will be subject to applicable provisions of the Exchange Act, and the applicable SEC rules and regulations, including, among others, Regulation M, which may limit the timing of purchases and sales of any of our common stock by any such person. Furthermore, Regulation M may restrict the ability of any person engaged in the distribution of our securities to engage in market-making activities with respect to our securities. These restrictions may affect the marketability of our securities and the ability of any person or entity to engage in market-making activities with respect to our securities.

Certain persons participating in an offering may engage in over-allotment, stabilizing transactions, short-covering transactions and penalty bids in accordance with Regulation M under the Exchange Act that stabilize, maintain or otherwise affect the price of the securities. If any such activities will occur, they will be described in the applicable prospectus supplement.

In compliance with the guidelines of the Financial Industry Regulatory Authority ("FINRA"), the aggregate maximum discount, commission or agency fees or other items constituting underwriting compensation to be received by any FINRA member or independent broker-dealer will not exceed 8% of any offering pursuant to this prospectus and any applicable prospectus supplement, as the case may be.

If more than 10% of the net proceeds of any offering of securities made under this prospectus will be received by FINRA members participating in the offering or affiliates or associated persons of such FINRA members, the offering will be conducted in accordance with FINRA Conduct Rule 5110(h).

So long as the aggregate market value of our common equity held by non-affiliates is less than \$75,000,000.00 and so long as required by the rules of the SEC, the amount of common stock we may offer hereunder will be limited such that the aggregate market value of securities sold by us during a period of 12 calendar months cannot exceed one-third of the aggregate market value of the common equity held by non-affiliates.

To the extent required, this prospectus may be amended or supplemented from time to time to describe a specific plan of distribution.

#### **LEGAL MATTERS**

Pierce Atwood LLP will pass upon legal matters in connection with the validity of the securities offered hereby for us.

#### **EXPERTS**

The financial statements of ImmuCell Corporation as of and for the years ended December 31, 2017 and 2016, incorporated in this Prospectus and Registration Statement by reference from the ImmuCell Corporation Annual Report on Form 10-K for the year ended December 31, 2017 have been audited by RSM US LLP, an independent registered public accounting firm, as stated in their report, incorporated herein by reference, and have been incorporated in this Prospectus and Registration Statement in reliance upon such report and upon the authority of such firm as experts in accounting and auditing.

#### INTERESTS OF NAMED EXPERTS AND COUNSEL

No expert or counsel named in this prospectus as having prepared or certified any part of this prospectus or having given an opinion upon the validity of the securities being registered or upon other legal matters in connection with the registration or offering of the securities was employed on a contingency basis, or had, or is to receive, in connection with the offering, a substantial interest, direct or indirect, in the registrant. Nor was any such person connected with the registrant as a promoter, managing or principal underwriter, voting trustee, director, officer, or employee.