

The information in this preliminary prospectus supplement and the accompanying prospectus, relating to an effective registration statement under the Securities Act of 1933, as amended, is not complete and may be changed. This preliminary prospectus supplement and the accompanying prospectus are not an offer to sell these securities and we are not soliciting offers to buy these securities in any state or other jurisdiction where the offer or sale is not permitted.

SUBJECT TO COMPLETION, DATED JUNE 23, 2022

PRELIMINARY PROSPECTUS SUPPLEMENT  
(To Prospectus dated January 12, 2021)



[ ] Shares of Common Stock

We are offering shares of our common stock, \$0.001 par value per share.

Our common stock is traded on the Nasdaq Capital Market under the symbol "BSGM." On June 22, 2022, the last reported sale price of our common stock on the Nasdaq Capital Market was \$0.88 per share.

Investing in our securities involves a high degree of risk. You should read the "Risk Factors" section beginning on page S-9 of this prospectus supplement and page 6 of the accompanying prospectus and in the documents incorporated by reference in this prospectus supplement for a discussion of factors to consider before deciding to invest in our common stock.

	Per Share	Total
Public offering price	\$	\$
Underwriting discount and commissions (1)(2)	\$	\$
Proceeds, before expenses, to us	\$	\$

(1) Assumes that we sell all of the common stock offered by this prospectus supplement. We have agreed to issue the representative of the underwriters or its designees warrants to purchase a number of shares of common stock equal to 5.0% of the shares of common stock sold in this offering and to reimburse the underwriters for certain offering-related expenses.

(2) Because there is no minimum offering amount required as a condition to closing in this offering, the actual public offering amount, underwriting discount, and proceeds to us, if any, are not presently determinable and may be substantially less than the total maximum offering amounts set forth above.

See "Underwriting" beginning on page S-15 of this prospectus supplement for additional information regarding underwriting discounts, commissions and estimated expenses.

This offering is being completed on a "best efforts" basis and the underwriters have no obligation to buy any shares of our common stock from us or to arrange for the purchase or sale of any specific number or dollar amount of shares of our common stock. There is no minimum offering.

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

The underwriters expect to deliver the shares of common stock on or about June , 2022.

*Sole Book-Running Manager*

**Laidlaw & Company (UK) Ltd.**

The date of this prospectus supplement is June , 2022

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## ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying prospectus are part of a registration statement on Form S-3 (File No. 333-251859) that we filed with the Securities and Exchange Commission, or SEC, on December 31, 2020, and that was declared effective by the SEC on January 12, 2021, using a “shelf” registration process. This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of this offering and also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference herein. The second part, the accompanying prospectus, provides more general information, some of which may not apply to this offering. Generally, when we refer to this prospectus, we are referring to both parts of this document combined. To the extent there is a conflict between the information contained in this prospectus supplement and the information contained in the accompanying prospectus or any document incorporated by reference therein filed prior to the date of this prospectus supplement, you should rely on the information in this prospectus supplement. If any statement in one of these documents is inconsistent with a statement in another document having a later date—for example, a document incorporated by reference in the accompanying prospectus—the statement in the document having the later date modifies or supersedes the earlier statement.

We further note that the representations, warranties and covenants made by us in any agreement that is filed as an exhibit to any document that is incorporated by reference herein were made solely for the benefit of the parties to such agreement, including, in some cases, for the purpose of allocating risk among the parties to such agreements, and should not be deemed to be a representation, warranty or covenant to you. Moreover, such representations, warranties or covenants were accurate only as of the date when made. Accordingly, such representations, warranties and covenants should not be relied on as accurately representing the current state of our affairs.

You should rely only on the information contained in this prospectus supplement or the accompanying prospectus or incorporated by reference herein. We have not authorized, and the underwriters have not authorized, anyone to provide you with information that is different. The information contained in this prospectus supplement or the accompanying prospectus or incorporated by reference herein or therein is accurate only as of the respective dates thereof, regardless of the time of delivery of this prospectus supplement and the accompanying prospectus or of any sale of our common stock.

This prospectus supplement and the accompanying prospectus contain 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 herein by reference as exhibits to the registration statement, and you may obtain copies of those documents as described below in the section entitled “Where You Can Find More Information.”

It is important for you to read and consider all information contained in this prospectus supplement and the accompanying prospectus, including the documents incorporated by reference herein and therein, in making your investment decision. You should also read and consider the information in the documents to which we have referred you in the sections entitled “Where You Can Find More Information” and “Information Incorporated By Reference” in this prospectus supplement, and “Where You Can Find More Information” and “Incorporation of Documents By Reference” in the accompanying prospectus.

This prospectus supplement and the accompanying prospectus contain and incorporate by reference market data and industry statistics and forecasts that are based on independent industry publications and other publicly-available information. Although we believe these sources are reliable, we do not guarantee the accuracy or completeness of this information and we have not independently verified this information. Although we are not aware of any misstatements regarding the market and industry data presented in this prospectus supplement, accompanying prospectus or the documents incorporated herein by reference, these estimates involve risks and uncertainties and are subject to change based on various factors, including those discussed in the section entitled “Risk Factors” in this prospectus supplement and the accompanying prospectus, and under similar headings in the other documents that are incorporated herein by reference. Accordingly, investors should not place undue reliance on this information.

We are offering to sell, and seeking offers to buy, the securities offered by this prospectus supplement only in jurisdictions where offers and sales are permitted. The distribution of this prospectus supplement and the accompanying prospectus and the offering of the securities offered by this prospectus supplement in certain jurisdictions may be restricted by law. Persons outside the United States who come into possession of this prospectus supplement and the accompanying prospectus must inform themselves about, and observe any restrictions relating to, the offering of the common stock and the distribution of this prospectus supplement and the accompanying prospectus outside the United States. This prospectus supplement and the accompanying prospectus do not constitute, and may not be used in connection with, an offer to sell, or a solicitation of an offer to buy, any securities offered by this prospectus supplement and the accompanying prospectus by any person in any jurisdiction in which it is unlawful for such person to make such an offer or solicitation.

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All references in this prospectus supplement and the accompanying prospectus to “BioSig,” the “Company,” “we,” “us,” “our,” or similar terms refer to BioSig Technologies, Inc. and its subsidiaries taken as a whole, except where the context otherwise requires or as otherwise indicated. BioSig’s name and logo are either registered trademarks or trademarks of BioSig Technologies, Inc. in the United States and/or other countries. All other trademarks, service marks or other tradenames appearing in this prospectus supplement and the accompanying prospectus are the property of their respective owners.

This prospectus supplement includes our trademarks, trade names and service marks, such as PURE EP™ System, which is protected under applicable intellectual property laws and are the property of BioSig Technologies, Inc., or its subsidiaries. Solely for convenience, trademarks, trade names and service marks referred to in this prospectus supplement may appear without the ®, ™ or SM symbols, but such references are not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights or the right of the applicable licensor to these trademarks, trade names and service marks. We do not intend our use or display of other parties’ trademarks, trade names or service marks to imply, and such use or display should not be construed to imply, a relationship with, or endorsement or sponsorship of us by, these other parties.

## PROSPECTUS SUPPLEMENT SUMMARY

*This summary highlights selected information about us, this offering and information appearing elsewhere in this prospectus supplement, in the accompanying prospectus and in the documents incorporated by reference herein and therein. This summary is not complete and does not contain all the information you should consider before investing in our securities pursuant to this prospectus supplement and the accompanying prospectus. Before making an investment decision, to fully understand this offering and its consequences to you, you should carefully read this entire prospectus supplement and the accompanying prospectus, including “Risk Factors,” the financial statements, and related notes, and the other information incorporated by reference herein and therein.*

### Overview

We are a medical technology company that is commercializing our PURE EP™ System which is an advanced signal acquisition and processing platform designed to provide essential diagnostic signals with high clinical value in all types of cardiac catheter ablations.

PURE EP™ is designed to address long-standing limitations that slow and disrupt cardiac catheter ablation procedures, such as environmental lab noise, signal saturation, slow signal recovery, and inaccurate display of fractionated potentials.

Cardiac catheter ablation is a procedure that involves delivery of energy through the tip of a catheter that scars or destroys heart tissue to correct heart rhythm disturbances. In August 2018, we received 510(k) clearance from the U.S. Food and Drug Administration (the “FDA”) to market our PURE (Precise Uninterrupted Real-time evaluation of Electrograms) EP™ System.

### Our Industry

Pharmacological, or medicine-based, therapies have traditionally been used as initial treatments for cardiac arrhythmias, but they often fail to adequately control the arrhythmia and may have significant side effects. Catheter ablation is now often recommended for an arrhythmia that medicine cannot control. Catheter ablation involves advancing several flexible catheters into the patient’s blood vessels, usually either in the femoral vein, internal jugular vein or subclavian vein. The catheters are then advanced towards the heart. Electrical impulses are then used to induce the arrhythmia and local heating or freezing is used to ablate (destroy) the abnormal tissue that is causing it. Catheter ablation for most of arrhythmias has a high success rate. For patients with complex arrhythmias like ventricular tachycardia (“VT”), a potentially life-threatening arrhythmia, and atrial fibrillation (“AF”), it is often necessary to perform multiple procedures to achieve success.

Catheter ablation is performed by an electrophysiologist (a specially trained cardiologist) in a specialized room in an EP lab. According to Health Research International, it is estimated that there are 8,163 global EP lab rooms performing catheter ablations, each typically with an EP recording system costing an average of \$160,000. According to Global Market Insights, global cardiac ablation market value is projected to exceed \$8.4 billion by 2028. The growing geriatric population is more susceptible to cardiovascular diseases and is expected to contribute to the number of ablation procedures in forthcoming years. According to the World Health Organization, the number of individuals aged 65 years and over is projected to increase from 524 million in 2010 to 1.5 billion by 2050. Aging typically leads to several changes in heart and blood vessels, which result in an increased risk of cardiac disorders. Accordingly, as cardiac ablation is a safe and highly effective treatment for irregular heart rhythm, we believe population aging will drive the product demand in future. Along with the expected increased disease burden, we believe that product advancements will drive the industry expansion. Industry players operating in the market are continuously developing newer technologies to offer more successful outcomes, and the expected significant investment in research and development activities by these players is anticipated to lead to new product launches, thereby expanding the product availability.

### ***Catheter Ablation of AF and VT***

Accurate recording of electrograms is critical to efficient mapping and ablation of complex arrhythmias. We believe that the clearer recordings and the very small amplitude of intracardiac signals—high frequency, small amplitude components in midst of large physiologic signals; signals important to characterize critical substrate, such as fractionated atrial and ventricular electrograms; and high-frequency, low-amplitude signals such as the Purkinje potentials—provided by the PURE EP™ System may improve outcomes during EP studies and ablation procedures for a variety of arrhythmias.

For patients who are candidates for ablation, an EP study is necessary to define the targeted sites for the ablation procedure. Two common, yet complex, conditions for which ablation procedures are performed are AF and VT. Most cardiac arrhythmias are well understood, and ablation simply requires destroying a small area of heart tissue possessing electrical abnormality. In contrast, complex arrhythmias, such as AF and VT, have complex pathophysiology and, because knowledge of their origins and mechanisms are incomplete, ablation treatments for these arrhythmias are largely empirical. Furthermore, the length of these procedures, which typically last from three to six hours, exposes the physician and staff to extensive radiation, requiring them to wear heavy lead vests. Consequently, ablating AF and VT has been regarded as being extremely difficult. Therefore, access to these procedures has traditionally been limited to being performed by only especially well-trained cardiologists and high-volume centers. Particularly during ablations for persistent (chronic) AF, long procedures and extensive ablation are often required. These procedures could result in significant scarring and damage to heart tissue, although a study from a French Bordeaux group found “recovery of atrial contractile function” (the heart goes back to beating and contracting normally) in 98% of patients in sinus rhythm after six months of follow-up. However, less experienced centers that do extensive ablations do run the risk of compromising the pumping ability and transport function of the left atrium.

AF is the most common heart rhythm disorder in the world and increases the risk for stroke 5-fold. In 2017, there were a reported 37.57 million prevalent cases and 3.05 million incident cases of AF globally, contributing to over 287,000 deaths worldwide (Global, regional, and national prevalence, incidence, mortality, and risk factors for atrial fibrillation, 1990–2017: results from the Global Burden of Disease Study 2017). In 2020, the Centers for Disease Control and Prevention stated that it is estimated that 12.1 million people in the United States will have AF in 2030, more than 454,000 patients hospitalized annually as the primary diagnosis, and AF contributes to an estimated 158,000 deaths each year. An increasing proportion of diagnosed AF cases are now being treated via ablation, as both physician confidence and the devices used in these procedures improve. A growing amount of positive clinical data has demonstrated the efficacy of AF ablation when compared to the traditional first-line treatment of anti-arrhythmic drugs.

Recent studies suggest that COVID-19 may increase the risk of certain arrhythmias. In a meta-analysis of 19 observational studies with 21,653 patients hospitalized with COVID-19, the prevalence of AF was 11%. According to the studies, AF was higher in patients with severe versus non-severe COVID-19 (19% versus 3%).

In 2021, a meta-analysis of 6 randomized clinical trials involved 1,212 patients with AF (609 were randomized to AF ablation and 603 to drug therapy (AADs); mean {SD} age, 56 {11} years). Compared with AADs, catheter ablation use was associated with reductions in recurrent atrial arrhythmia (32.3% vs 53%; risk ratio {RR}, 0.62; 95% CI, 0.51-0.74;  $P < .001$ ; I<sup>2</sup> = 40%), with a number needed to treat with ablation to prevent 1 arrhythmia of 5. Use of ablation was also associated with reduced symptomatic atrial arrhythmia (11.8% vs 26.4%; RR, 0.44; 95% CI, 0.27-0.72;  $P = .001$ ; I<sup>2</sup> = 54%) and hospitalization (5.6% vs 18.7%; RR, 0.32; 95% CI, 0.19-0.53;  $P < .001$ ) with no significant difference in serious adverse events between the groups (4.2% vs 2.8%; RR, 1.52; 95% CI, 0.81-2.85;  $P = .19$ ). In this meta-analysis of randomized clinical trials including first-line therapy of patients with paroxysmal AF, catheter ablation compared with antiarrhythmic drugs was associated with reductions in recurrence of atrial arrhythmias and hospitalizations, with no difference in major adverse events.

The AF Ablation Long Term Registry is an international registry of 3,630 patients who underwent AF ablation between 2012 and 2015 – the study reported a 41% rate of repeat ablation at three years post ablation. At 12-month follow-up, the outcome was judged to have been successful in 74% of patients. However, almost 50% of the patients were still taking an antiarrhythmic drug. AF recurrences were less common in patients with paroxysmal (31%) than with persistent (40%) or long-standing persistent (44%) AF.

According to the Heart Rhythm Society, VT is the most dangerous arrhythmia since it may result in ventricular fibrillation, a rapid chaotic heartbeat in the lower chambers of the heart which can often result in sudden cardiac death. Because the fibrillating muscle cannot contract and pump blood to the brain and vital organs, ventricular fibrillation is the number one cause of sudden cardiac death which accounts for approximately 300,000 deaths in the U.S. each year. VT is typically treated with implantable cardioverter defibrillators, or ICDs, or a combination of ablation along with an ICD.

Catheter ablation of VT has historically been used primarily for drug refractory ventricular arrhythmias in patients with ICDs. However, advances in electro-anatomical mapping systems, techniques to identify ablation sites during sinus rhythm, and the use of hemodynamic support devices has broadened the applicability of catheter ablation for ventricular arrhythmias. When performed in centers with high procedural volumes, the rates of complications remain relatively low. However, success rates have historically been quite variable and highly dependent on the specific ablation approach adopted. Additionally, catheter ablation has evolved into an important treatment option for patients with scar-related heart disease presenting with VT or VF. An individual’s success rate of catheter ablation for VT is determined by the amount of infarct-related scar burden, represented as low-voltage signals; the experience of the team and center will influence outcomes. In patients with recurrent VT or VF despite complete revascularization and optimal medical treatment, radiofrequency catheter ablation should be considered. Recurrent VF episodes may be triggered by PVCs arising from partially injured Purkinje fibers or ventricular myocardium injured by ischemia and/or reperfusion. Precise catheter mapping and successful ablation of triggers for VT or VF, or myocardial substrate sustaining VT or VF, is a complex and demanding procedure according to the 2015 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death The Task Force for the Management of Patients with Ventricular Arrhythmias and the Prevention of Sudden Cardiac Death of the European Society of Cardiology (ESC).

We believe that ablation will continue to be a preferred treatment for AF and VT. This increase in demand for ablation procedures has also increased the demand for technological advances in medical devices essential to ablation procedures. Improvements are needed to help reduce the periprocedural complications and decrease costly lengths of stay in patients undergoing catheter ablation procedures, adding focus to improving outcomes at low volume hospitals and among patients at high risk due to comorbidities. We believe that the PURE EP™ System may have a meaningful impact on assisting ablation strategies especially for repeat ablations and for those with significant scarring as it was developed to reveal the high frequency and very small amplitude of intracardiac signals important for identifying ablation targets.

#### ***EP Lab Environment and EP Recording Systems***

The EP lab environment and recording systems create significant amounts of noise and artifacts during EP procedures. Current surface and intracardiac recording systems typically consist of large workstations interconnected by a complex set of cables that contribute to significant amounts of noise during signal acquisition. Additional noise and artifacts generated from the EP lab equipment further hamper recordings of small electrophysiological potentials. Preserving spatiotemporal (space and time) characteristics of the signal in a very challenging EP recording environment is a difficult task. To remove noise and artifacts, recorders that are currently on the market offer a family of low pass, high pass and notch filters, but these filters alter signal information context.

The shape and amplitude of electrocardiograms, unipolar and bipolar electrograms, and, consequently, reconstructed endocardial and epicardial maps, are influenced not only by electrophysiological and structural characteristics of the myocardial tissue involved, but with characteristics of the recording system. Amplitude and morphology of electrocardiogram and intracardiac signals are significantly affected by filters used to remove noise. Because of the number of amplitude and interval measurements made during an EP study, it is imperative that the recording system faithfully acquires surface electrocardiogram and intracardiac electrograms. We believe that the recording systems that are currently available on the market are ineffective in preserving the optimal amount of original information contained in the cardiac signals.

In addition, the EP lab consists of sophisticated equipment that requires an electrophysiologist to mentally integrate information from a number of sources during procedures. There are numerous monitors in an EP lab that provide and display this variety of information. An electrophysiologist needs to evaluate the acquired cardiac signals and the patient's responses to any induced arrhythmias during the procedure. However, it can be difficult for an electrophysiologist to synthesize the disparate information produced by the numerous monitors in the lab and calculate the real-time, three-dimensional orientation of the anatomy and the location of the recording and ablation catheters. As the number of EP procedures increase, a variety of diagnostic, therapeutic and highly specialized ablation catheters are widely available and continue to be developed. In addition, remote robotic and magnetic navigation systems have been developed to address limitations of dexterity in controlling the catheter tip, especially during complex arrhythmia ablation procedures. We believe that, considering the improvements being made with respect to other equipment used in the EP lab and the continual increase of ablation procedures, the EP recorders currently available on the market are not sufficiently advanced with respect to the quality of their recordings to deliver adequate results. We believe that the PURE EP™ System will be able to deliver superior quality of recordings that will allow it to successfully integrate with the other advanced equipment found in the EP lab.

Generally, some current electrophysiology recording systems can effectively support the treatment of arrhythmias such as atrial flutter and supraventricular tachycardia, which show up as large-amplitude, low-frequency signals. However, more complex and prevalent arrhythmias, such as AF and VT, which are characterized by low-amplitude, high-frequency signals, have not found an effective evaluation of all relevant signals. This signal detection, acquisition, and isolation can be further complicated by equipment line noise and pacing signals. Current EP recorders use low-pass, high-pass, and notch filters to remove noise and artifacts from the various electrical signal information. Unfortunately, conventional filtering techniques can alter signals and make it difficult or impossible to see low-amplitude, high-frequency signals that can be inherent in cardiac monitoring, the visualization of which signals could help treat atrial fibrillation and ventricular tachycardia. It has been recently recognized that the assurance of waveform integrity, such as for the noise-free acquisition of intracardiac and ECG signals in an EP environment, had not been previously accomplished due to contamination of various signals by artifacts and noise.

The requirement for optimal signal integrity is amplified during ablation treatments of AF and VT. One of the main objectives of the AF ablation procedure is to precisely identify, ablate and eliminate pulmonary vein potentials and one of the main objectives of the VT procedure is to map the arrhythmia substrate and precisely identify, ablate and eliminate small abnormal potentials. The information provided by recorders is essential for an electrophysiologist to determine ablation strategy during termination of both pulmonary vein potentials and VT. Therefore, it is important that the recording system's noise removal technique does not alter the appearance and fidelity of these potentials. As a result, it is necessary that any new signal processing technology preserves signal fidelity as much as possible during EP recordings; otherwise, the signals that are needed to guide the ablation procedures will be difficult to distinguish due to noise interference.

### The PURE EP™ System

PURE EP™ is a signal processing platform that combines advanced hardware and software to address known challenges associated to signal acquisition, to enable electrophysiologists to see more signals and analyze them in real-time. The device aims to minimize noise and artifacts from cardiac recordings and acquire high-fidelity cardiac signals. Improving fidelity of acquired cardiac signals may potentially increase the diagnostic value of these signals, thereby possibly improving accuracy and efficiency of the EP studies and ablation procedures.

PURE EP™'s initial focus is on improving intracardiac signal acquisition and enhancing diagnostic information for catheter ablation procedures for complex arrhythmias like VT, a potentially life-threatening arrhythmia, and AF, the most common cardiac arrhythmia associated with a fivefold risk of stroke.

Clinical data acquired by the PURE EP™ System in a multi-center study at Texas Cardiac Arrhythmia Institute at St. David's Medical Center in Austin, Texas, Mayo Clinic in Jacksonville, Florida, and Massachusetts General Hospital in Boston, Massachusetts was published in September 2021 in the Journal of Cardiovascular Electrophysiology and is available electronically with open access via the Wiley Online Library. Study results showed 93% consensus across the blinded reviewers with a 75% overall improvement in intracardiac signal quality and confidence in interpreting PURE EP™ signals over conventional sources. AF accounted for over 40% of enrollments.

We continue to install PURE EP™ Systems at centers of excellence for clinical evaluation under our market development plan. The PURE EP™ System has been utilized at numerous institutions, including Mayo Clinic campuses in Arizona, Florida and Minnesota; the University of Pennsylvania Hospital in Philadelphia, Pennsylvania; Overland Park Regional Medical System in Overland Park, Kansas; Deborah Heart and Lung Center in Browns Mills, New Jersey; St. Elizabeth's Medical Center in Boston, Massachusetts; Medical City Heart Hospital in Dallas, Texas; Beth Israel Deaconess Medical Center (BIDMC) in Boston, Massachusetts, a teaching hospital of Harvard Medical School; Methodist Hospital in San Antonio, Texas; Houston Methodist Hospital; Medical City North Hills in North Richland Hills; and Westside Regional Medical Center in Plantation, Florida.

To date, more than 2,500 patient procedures have been conducted with the PURE EP™ System by more than 75 electrophysiologists across seventeen different clinical sites in the United States.

In addition to clinical evaluation, we have conducted pre-clinical evaluation with the PURE EP™ System under several protocols. At Mayo Clinic in Rochester, Minnesota, we have performed twenty-seven experiments (including novel research programs such as Artificial Intelligence, or AI, and repolarization) in various animal models; we also conducted a pre-clinical study at the Mount Sinai Hospital in New York, New York, with an emphasis on the VT model; and six experiments to date during a study at the University of Pennsylvania. We intend to continue additional research and development studies with our technology at Mayo Clinic, the University of Pennsylvania and other national centers.

In September 2021, we announced that we entered into a manufacturing and professional services agreement with Plexus Corp ("Plexus") (Nasdaq: PLXS). Under the terms of the agreement, Plexus will manufacture the PURE EP™ System and develop a new product pipeline for our subsidiary, ViralClear.

We have made progress towards obtaining a European CE marking certificate for medical devices. In Q1 2022, we completed the quality management system audit for the International Organization for Standardization ("ISO") 13485:2016 with the expectation to obtain the ISO 13485:2016 certification in the first half of 2022 and proceed to the application for the European CE Marking clearance in the first half of 2023, subject to the guidance and availability from the European Notified Body.

In December 2020, we announced that three PURE EP™ Systems were contracted for purchase by St. David's Healthcare in Austin, Texas and were subsequently sold in February 2021. We also sold three PURE EP™ Systems to Mayo Foundation for Medical Education and Research in 2021 for use in Mayo Clinic campuses in Rochester, Minnesota, Jacksonville, Florida and Phoenix, Arizona.

In January 2022, U.S. patent claims for our PURE EP™ noise-filtering technology which address computer-implemented systems and methods for filtering noise from input cardiac signals were approved, and the resulting patent issued on March 1, 2022. We now have 48 issued or allowed worldwide patents covering our novel technology for arrhythmia care.



## Recent Developments

### *Technion Research & Development Foundation (TRDF) Ltd. Feasibility Study Agreement*

On November 16, 2021, we announced the launch of a new Artificial Intelligence development program with Technion – Israel Institute of Technology. Based in Haifa, Israel, Technion – Israel Institute of Technology is a public research university offering degrees in science, engineering, and related fields, such as medicine, industrial management, and education. Over the years, Technion established itself as a leading academic institution in Artificial Intelligence (AI).

The research program is led by Asst. Prof. Joachim Behar, Head of the Artificial Intelligence in Medicine Laboratory (AIMLab) at the Technion. Under the terms of the program, the ECG signals supplied by the PURE EP™ System are being analyzed in the context of developing AI-powered algorithms for atrial fibrillation ablation procedures.

### *Mayo Clinic Artificial Intelligence (AI) Research Agreement*

In January 2021, we entered into a research agreement with Mayo Clinic regarding a Novel AI Program for our Novel Signal Recording System. The program is a strategic collaboration with Mayo to develop a next-generation AI- and machine learning-powered software for our PURE EP™ System. The new collaboration includes an R&D program that is expected to expand our proprietary hardware and software with advanced signal processing capabilities and aim to develop novel technological solutions by combining the electrophysiological signals delivered by PURE EP™ and other data sources.

The development program is under the leadership of Samuel J. Asirvatham, M.D., Mayo Clinic's Vice-Chair of Innovation and Medical Director, Electrophysiology Laboratory. We entered into a 10-year collaboration agreement with Mayo Clinic in March, 2017, and in November, 2019, we signed a patent and know-how license agreement with Mayo Foundation for Medical Education and Research in which such terms apply to this program. On April 9, 2021, and October 22, 2021, we conducted first pre-clinical data collection studies to advance our AI program at Mayo Clinic.

### *ATM Program*

On May 17, 2022, following approval by our board of directors, we entered into an ATM Sales Agreement with Virtu Americas LLC, under which we may, from time to time, offer and sell our common stock. To date, we have sold \$348,257 of shares of our common stock pursuant to the at-the-market program with Virtu Americas LLC. We may cancel the at-the-market program at any time upon written notice, pursuant to its terms. We have agreed with the underwriters in this offering to certain restrictions on our ability to sell shares of our common stock, which will prevent us from selling shares pursuant to our at-the-market program for 30 days following this offering. See "Underwriting."

## Our Corporate Information

We were formed as BioSig Technologies, Inc., a Nevada corporation, in February 2009, and in April 2011, we merged with our wholly-owned subsidiary, BioSig Technologies Inc., a Delaware corporation, with the Delaware corporation continuing as the surviving entity. Our principal executive offices are located at 55 Greens Farms Road, 1st Floor, Westport, Connecticut 06880, and our telephone number is (203) 409-5444. Our website address is [www.biosig.com](http://www.biosig.com). Information accessed through our website is not incorporated into this prospectus supplement and is not a part of this prospectus supplement. We have included our website address in this prospectus supplement solely as an inactive textual reference.

## THE OFFERING

**Common stock offered by us** shares

**Common stock to be outstanding immediately after the offering (1)** shares

**Offering price per share** \$ per share

**Best Efforts** We have agreed to issue and sell the shares of common stock offered hereby to the public through the underwriters, and the underwriters have agreed to offer and sell such shares of common stock on a “best efforts” basis. The underwriters are not required to sell any specific number or dollar amount of the shares of common stock offered hereby, but will use their commercially reasonable best efforts to sell such shares of common stock. See “Underwriting” on page S-15.

**Use of proceeds** We intend to use the net proceeds from this offering (i) for the continuation of commercialization activities related to the PURE EP™ System; (ii) to fund working capital; and (iii) for general corporate purposes and other capital expenditures. Because this is a best efforts offering with no minimum, we may not sell all or any of the shares offered hereby. As a result, there can be no assurance that the offering contemplated hereby will ultimately be consummated for the full amount. See “Use of Proceeds.”

**Dividend policy** We have never paid cash dividends on our common stock and do not anticipate paying any cash dividends in the foreseeable future but intend to retain our capital resources for reinvestment in our business.

**Risk factors** Investing in our common stock involves a high degree of risk. You should read the “Risk Factors” section beginning on page S-9 of this prospectus supplement and page 6 of the accompanying prospectus and in the documents incorporated by reference in this prospectus supplement for a discussion of factors to consider before deciding to invest in our common stock.

**Nasdaq Capital Market symbol** “BSGM”

(1) The number of shares of common stock to be outstanding immediately after this offering is based on 39,559,059 shares of our common stock outstanding as of March 31, 2022, and excludes:

- 3,432,040 shares of common stock issuable upon the exercise of warrants outstanding with an exercise price ranging from \$1.40 to \$6.16 per share and having a weighted average exercise price of \$2.44 per share;
- 4,869,484 shares of common stock issuable upon the exercise of options outstanding with exercise prices ranging from \$1.28 to \$10.49 and having a weighted average exercise price of \$4.03 per share;
- 2,612,523 shares of common stock available for future issuance under the 2012 Equity Incentive Plan (the “2012 Plan”);
- 82,500 shares of common stock issuable from time to time after this offering upon the settlement of restricted stock units outstanding; and
- 162,634 shares of common stock issuable upon conversion of outstanding Series C Preferred Stock, including the payment of the dividends accrued on the Series C Preferred Stock in an aggregate of 91,304 shares of common stock at the conversion price of \$1.15 per share and the stated value per share of \$1,000.

Except as otherwise indicated, all information in this prospectus supplement assumes (i) no exercise, conversion, or settlement of the outstanding options, preferred stock, restricted stock units or warrants described above; and (ii) no exercise of the underwriter’s warrants to be issued to the underwriter in connection with this offering.

## RISK FACTORS

*An investment in our common stock involves a high degree of risk. Before deciding whether to invest in our common stock, you should consider carefully the risks described below, together with other information in this prospectus supplement, the accompanying prospectus, the information and documents incorporated by reference. You should also consider the risks, uncertainties and assumptions discussed under the heading “Risk Factors” included in our most recent annual report on Form 10-K and the subsequent quarterly reports on Form 10-Q and other reports that we file with the SEC, which are on file with the SEC and are incorporated herein by reference, and which may be amended, supplemented or superseded from time to time by other reports we file with the SEC in the future. If any of these risks actually occurs, our business, financial condition, results of operations or cash flow could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment. The risks and uncertainties described below are not the only ones facing us. Additional risks and uncertainties not presently known to us, or that we currently see as immaterial, may also harm our business. Please also read carefully the section below entitled “Special Note Regarding Forward-Looking Statements.”*

### **Risks Related to This Offering**

#### ***You will experience immediate and substantial dilution.***

Because the price per share of common stock being offered in this offering is expected to be substantially higher than the net tangible book value per share of our common stock, you may experience substantial dilution to the extent of the difference between the effective offering price per share of common stock you pay in this offering and the net tangible book value per share of our common stock immediately after this offering. Our net tangible book value as of March 31, 2022, was approximately \$8.6 million, or \$0.22 per share of common stock. Net tangible book value per share is equal to our total tangible assets minus total liabilities, all divided by the number of shares of common stock outstanding. We may sell shares or other securities in any other offering, including under our at-the-market program, at a price per share that is less than the price per share paid by investors in this offering, and investors purchasing shares of our common stock or other securities in the future could have rights superior to existing stockholders. The price per share at which we sell additional shares of our common stock, or securities convertible or exchangeable into common stock, in future transactions may be higher or lower than the price per share paid by investors in this offering. See the section entitled “Dilution” on page S-14 below for a more detailed illustration of the dilution you may incur if you participate in this offering.

#### ***Our management team may invest or spend the proceeds raised in this offering in ways with which you may not agree or which may not yield a significant return.***

Our management will have broad discretion over the use of proceeds from this offering. We currently intend to use the net proceeds of this offering as described in the section entitled “Use of Proceeds.” However, our management will have broad discretion in the application of the net proceeds from this offering and could use them for purposes other than those contemplated at the time of this offering. Accordingly, you are relying on the judgment of our management with regard to the use of these net proceeds, and you will not have the opportunity, as part of your investment decision, to assess whether the proceeds will be used appropriately. The failure by management to apply these funds effectively could result in financial losses that could have a material adverse effect on our business, cause the price of our common stock to decline, and delay the development of our product candidates. Pending their use, we may invest the net proceeds from this offering in short-term, interest-bearing instruments. These investments may not yield a favorable return, or any return, to us or our stockholders.

#### ***Our stock price is and may continue to be volatile and you may not be able to resell our common stock at or above the price you paid.***

The market price for our common stock is volatile and may fluctuate significantly in response to a number of factors, many of which we cannot control, such as quarterly fluctuations in financial results, the timing and our ability to advance the development of our product candidates or changes in securities analysts’ recommendations could cause the price of our stock to fluctuate substantially. Each of these factors, among others, could harm your investment in our common stock and could result in your being unable to resell the shares of our common stock that you purchase at a price equal to or above the price you paid.

In addition, the stock markets in general, and the markets for biotechnology stocks in particular, have experienced extreme volatility that has at times been unrelated to the operating performance of the issuer. Between June 21, 2021 and June 21, 2022, the closing sales price of our common stock reported on the Nasdaq Capital Market has ranged between \$4.35 and \$0.68 per share. These broad market fluctuations may adversely affect the trading price or liquidity of our common stock. In the past, when the market price of a stock has been volatile, holders of that stock have sometimes instituted securities class action litigation against the issuer. If any of our stockholders were to bring such a lawsuit against us, we could incur substantial costs defending the lawsuit and the attention of our management would be diverted from the operation of our business.

***We do not intend to pay dividends on our common stock, so any returns will be limited to the value of our common stock.***

We currently anticipate that we will retain any future earnings to finance the continued development, operation and expansion of our business. As a result, we do not anticipate declaring or paying any cash dividends or other distributions in the foreseeable future. Further, we are currently restricted in our ability to pay dividends pursuant to the terms of our Series C Preferred Stock, absent consent from the holders representing a super-majority of the outstanding shares of our Series C Preferred Stock and a certain investor. If we do not pay dividends, our common stock may be less valuable because stockholders must rely on sales of their common stock after price appreciation, which may never occur, to realize any gains on their investment.

***The sale of our common stock in this offering and any future sales of our common stock, or the perception that such sales could occur, may depress our stock price and our ability to raise funds in new stock offerings.***

We may from time to time issue additional shares of common stock at a discount from the current trading price of our common stock. As a result, our stockholders would experience immediate dilution upon the purchase of any shares of our common stock sold at such discount. In addition, as opportunities present themselves, we may enter into financing or similar arrangements in the future, including the issuance of debt securities, preferred stock or common stock. Sales of shares of our common stock in this offering and the public market following this offering, or the perception that such sales could occur, may lower the market price of our common stock and may make it more difficult for us to sell equity securities or equity-related securities in the future at a time and price that our management deems acceptable, or at all.

Even after this offering, we will need to raise significant additional funds to finance our operations, including the commercialization of the PURE EP™ System and other applications of our core technology, and to remain a going concern. If we are unable to raise additional capital when needed or on acceptable terms, we may be forced to delay, reduce and/or eliminate one or more of our business initiatives.

As of March 31, 2022, we had generated only nominal revenue from the sale of our PURE EP™ System. We have incurred significant losses and negative cash flows since our inception. As of March 31, 2022, we had unrestricted cash and cash equivalents of approximately \$8.7 million. We believe our existing capital resources, including the net proceeds of this offering, will be sufficient to sustain our planned operations through August 2022. Our ability to raise additional funds will depend, in part, on our ability to successfully commercialize our PURE EP™ System in the United States. If, for whatever reason, we are unable to gain additional traction in the market for our PURE EP™ System, it may make any necessary debt, equity or alternative financing more difficult, more costly and more dilutive.

Attempting to secure additional financing may divert our management from our day-to-day activities, which may adversely affect our ability to commercialize our PURE EP™ System or develop our product candidates. In addition, we cannot guarantee that future financing will be available in sufficient amounts or on terms acceptable to us, if at all. Furthermore, as a result of the COVID-19 pandemic and actions taken to slow its spread and the military conflict between Russia and Ukraine, the global credit and financial markets have experienced extreme volatility and disruptions. If the equity and credit markets deteriorate, it may make any necessary debt or equity financing more difficult, more costly and more dilutive.

If we are unable to raise additional funds when needed or on acceptable terms, we may be unable to further commercialize our PURE EP™ System. In addition, we may be required to delay, scale back or eliminate some or all our other development programs and business initiatives, or forced to cease operations entirely. To the extent we raise additional capital through the sale of equity, convertible debt or other securities convertible into equity, the ownership interest of our stockholders will be diluted, and the terms of these new securities may include liquidation or other preferences that adversely affect the rights of our stockholders. Future debt financings, if available at all, would likely involve agreements with additional covenants limiting or restricting our ability to take specific actions, such as incurring additional debt, making capital expenditures, making additional product acquisitions or declaring dividends. If we raise additional funds through strategic collaborations, alternative non-dilutive financing, such as royalty-based financing, or licensing arrangements with third parties, we may have to relinquish valuable rights to our product candidates or future revenue streams or grant licenses on terms that are not favorable to us. Moreover, if we are unable to continue as a going concern, we may be forced to liquidate our assets and the values we receive for our assets in liquidation or dissolution could be significantly lower than the values reflected in our financial statements.

## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus supplement, the accompanying prospectus, and the information incorporated by reference in this prospectus supplement contain “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and such forward-looking statements involve risks and uncertainties. All statements, other than statements of historical facts, contained in this prospectus supplement, the accompanying prospectus, and the other documents we have filed with the SEC that are incorporated by reference herein, including statements regarding our strategy, future operations and strategies, future financial position, projected costs, prospects, plans and objectives of management, are forward-looking statements. Words such as “may,” “should,” “could,” “would,” “predicts,” “potential,” “continue,” “expects,” “anticipates,” “future,” “intends,” “plans,” “believes,” “estimates,” “aim,” “contemplate,” “design,” “might,” “possible,” “project,” “seek,” “suggest,” “strategy,” “target,” “will,” and similar expressions or phrases or the negative of those expressions or phrases, as well as statements in future tense, are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Forward-looking statements should not be read as a guarantee of future performance or results and may not be accurate indications of when such performance or results will actually be achieved. Forward-looking statements are based on information we have when those statements are made or our management’s good faith belief as of that time with respect to future events, and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Important factors that could cause such differences include, but are not limited to:

- our history of recurring losses and negative cash flows from operating activities and the uncertainty regarding the adequacy of our liquidity to pursue or complete our business objectives, and substantial doubt regarding our ability to continue as a going concern;
- the results of ongoing and future clinical studies;
- our inability to successfully develop or commercialize our product candidates;
- market acceptance of existing and new products;
- our inability to carry out research, development and commercialization plans;
- delays in any phase of the preclinical or clinical development of a product, including during its research and development;
- our inability to complete preclinical testing and clinical trials as anticipated;
- changes in our relationship with key collaborators;
- our ability to adequately protect and enforce rights to intellectual property;
- our need to raise additional capital to meet our business requirements in the future and the difficulties in obtaining financing on commercially reasonable terms, or at all;
- intense competition in our industry, with competitors having substantially greater financial, technological, research and development, regulatory and clinical, manufacturing, marketing and sales, distribution and personnel resources than we do;
- our inability to manufacture our PURE EP product on a commercial scale on our own or in collaborations with third parties;
- entry of new competitors and products and potential technological obsolescence of our products;
- effect of healthcare legislation or reform measures that may substantially change the market for medical care or healthcare coverage in the U.S.;
- the ongoing COVID-19 pandemic;
- our failure to obtain regulatory approvals;
- adverse market and economic conditions;
- our ability to maintain the listing of our common stock on the Nasdaq Capital Market;
- loss of one or more key executives;
- difficulties in securing and retaining regulatory approval to market our product and product candidates; and
- depth of the trading market in our common stock.

To date, only one of our products, PURE EP™ System, has been approved by the FDA for marketing in the United States. Our other current product candidates are investigational and have not been submitted to or approved by the FDA, and neither our PURE EP™ System nor our other product candidates have been approved for the European CE marking certificate for medical devices or any other regulatory authority anywhere else in the world. This prospectus also contains estimates and other statistical data made by independent parties and by BioSig relating to market opportunity, growth and other data about its industry. These data and estimates involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates.

Although we believe that we have a reasonable basis for each forward-looking statement contained in this prospectus supplement, the accompanying prospectus, and the other document documents we have filed with the SEC that are incorporated by reference herein, we caution you that these statements are based on our projections of the future that are subject to known and unknown risks and uncertainties and other factors that may cause our actual results, level of activity, performance or achievements expressed or implied by these forward-looking statements, to differ. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. All forward-looking statements are qualified in their entirety by this cautionary statement. Forward-looking statements should be regarded solely as our current plans, estimates and beliefs. We have included important factors in the cautionary statements included in this prospectus supplement, the accompanying prospectus, and the other document documents we have filed with the SEC that are incorporated by reference herein, particularly in the section entitled "Risk Factors," beginning on page S-9 of this prospectus supplement, which we believe could cause our actual results to be materially different from the plans, intentions and expectations disclosed in the forward-looking statements we make. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make.

Any forward-looking statement speaks only as to the date on which that statement is made. We assume no obligation to update any forward-looking statements to reflect events or circumstances after the date of this prospectus supplement, except as may otherwise be required by the federal securities laws.

## USE OF PROCEEDS

We expect to receive net proceeds from this offering of approximately \$ , after deducting the estimated underwriting discounts and commissions and the estimated offering expenses payable by us. However, this is a best efforts offering with no minimum, and we may not sell all or any of these shares of common stock; as a result, there can be no assurance that the offering contemplated hereby will ultimately be consummated for the full amount.

We intend to use the net proceeds from this offering (i) for the continuation of commercialization activities related to the PURE EP™ System, including additional support for organizational development; (ii) to fund working capital; and (iii) for general corporate purposes and other capital expenditures. We do not currently have more specific plans or commitments with respect to the net proceeds from this offering and, accordingly, are unable to quantify the allocation of such proceeds among the various potential issues.

The expected use of net proceeds of this offering represents our current intentions based upon our present plan and business conditions. Investors are cautioned, however, that expenditures may vary substantially from these uses. Investors will be relying on the judgment of our management, who will have broad discretion regarding the application of the proceeds of this offering. The amounts and timing of our actual expenditures will depend upon numerous factors, including the amount of cash generated by our operations, the amount of competition we face and other operational factors. We may find it necessary or advisable to use portions of the proceeds from this offering for other purposes.

Pending application of the net proceeds as described above, we intend to invest the proceeds to us in investment-grade, interest-bearing securities such as money market funds, certificates of deposit, or direct or guaranteed obligations of the U.S. government, or hold as cash. We cannot predict whether the proceeds invested will yield a favorable, or any, return.

## DIVIDEND POLICY

We have never paid cash dividends on our common stock and do not anticipate paying any cash dividends in the foreseeable future but intend to retain our capital resources for reinvestment in our business. Any future determination to declare dividends will be made at the discretion of our board of directors and will depend on our financial condition, operating results, capital requirements, general business conditions and other factors that our board of directors may deem relevant. Our ability to pay dividends is presently restricted pursuant to the terms of our Series C Preferred Stock.

## DILUTION

If you invest in our common stock, your interest will be diluted immediately to the extent of the difference between the offering price per share you will pay in this offering and the as-adjusted net tangible book value per share of our common stock immediately after giving effect to this offering.

Our net tangible book value as of March 31, 2022 was approximately \$8,569,000, or \$0.22 per share of common stock. Net tangible book value per share is determined by dividing our total tangible assets, less total liabilities, by the number of shares of our common stock outstanding as of March 31, 2022.

As-adjusted net tangible book value per share represents our net tangible book value after giving effect to the sale of shares of common stock at the public offering price of \$ per share, and, after deducting the underwriting discounts and commissions and estimated offering expenses payable by us in connection with this offering, would have been approximately \$ million, or \$ per share. This represents an immediate increase in net tangible book value of \$ per share to our existing stockholders and an immediate dilution of approximately \$ per share to purchasers of our common stock in this offering.

The following table illustrates this per share dilution.

Public offering price per share		\$
Net tangible book value per share as of March 31, 2022	\$	0.22
Increase in net tangible book value per share attributable to this offering	\$	
As-adjusted net tangible book value per share as of March 31, 2022, after giving effect to this offering		\$
Dilution per share to new investors in this offering		\$

The above discussion and table are based on 39,559,059 shares of common stock outstanding as of March 31, 2022 and excludes:

- 3,432,040 shares of common stock issuable upon the exercise of warrants outstanding with an exercise price ranging from \$1.40 to \$6.16 per share and having a weighted average exercise price of \$2.44 per share;
- 4,869,484 shares of common stock issuable upon the exercise of options outstanding with exercise prices ranging from \$1.28 to \$10.49 and having a weighted average exercise price of \$4.03 per share;
- 2,612,523 shares of common stock available for future issuance under the 2012 Plan;
- 82,500 shares of common stock issuable from time to time after this offering upon the settlement of restricted stock units outstanding; and
- 162,634 shares of common stock issuable upon conversion of outstanding Series C Preferred Stock, including the payment of the dividends accrued on the Series C Preferred Stock in an aggregate of 91,304 shares of common stock at the conversion price of \$1.15 per share and the stated value per share of \$1,000.

Except as otherwise indicated, all information in this prospectus supplement assumes (i) no exercise, conversion, or settlement of the outstanding options, preferred stock, restricted stock units or warrants described above; and (ii) no exercise of the underwriter's warrants to be issued to the underwriter in connection with this offering.

To the extent that any of these outstanding options, warrants, preferred stock, or restricted stock units are exercised, converted or settled at prices per share below the public offering price per share in this offering or we issue additional shares under our equity incentive plans at prices below the public offering price per share in this offering, you may experience further dilution. In addition, we may choose to raise additional capital due to market conditions or strategic considerations even if we believe we have sufficient funds for our current or future operating plans. To the extent that we raise additional capital by issuing equity or convertible debt securities, your ownership will be further diluted.



**UNDERWRITING**

Laidlaw & Company (UK) Ltd. is acting as representative of each of the underwriters named below. Subject to the terms and conditions set forth in an underwriting agreement among us and the underwriters, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the number of shares of common stock set forth opposite its name below.

<b>Underwriter</b>	<b>Number of Shares</b>
Laidlaw & Company (UK) Ltd.	
[•]	
[•]	
[•]	
[•]	
Total	

This offering is being completed on a “best efforts” basis and the underwriters have no obligation to buy any shares of our common stock from us or to arrange for the purchase or sale of any specific number or dollar amount of shares. As a “best efforts” offering, there can be no assurance that the offering contemplated hereby will ultimately be consummated. The obligations of the underwriters may be terminated upon the occurrence of certain events specified in the underwriting agreement. The underwriters may, but are not obligated to, retain other selected dealers that are qualified to offer and sell the shares and that are members of the Financial Industry Regulatory Authority, Inc. (“FINRA”).

We have agreed to indemnify the underwriters against certain liabilities, including liabilities under the Securities Act of 1933 or to contribute to payments the underwriters may be required to make in respect of those liabilities.

The underwriters are offering the shares, subject to prior sale, when, as and if issued to and accepted by them, subject to approval of legal matters by their counsel, including the validity of the shares, and other conditions contained in the underwriting agreement, such as the receipt by the underwriters of officer’s certificates and legal opinions. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

**Discount, Commissions and Expenses**

The representative has advised us that the underwriters propose initially to offer the shares to the public at the public offering price set forth on the cover page of this prospectus supplement and to dealers at that price less a concession not in excess of \$ per share. After the initial offering, the public offering price, concession or any other term of the offering may be changed.

The following table summarizes the underwriting discount and commissions we will pay to the underwriters in connection with this offering. The underwriting fee is the difference between the initial price to the public and the amount the underwriters pay to us for the shares.

	<b>Per Share</b>	<b>Total</b>
Public offering price		
Underwriting discount and commissions		
Proceeds, before expenses, to us		

In addition to the underwriting discount and commissions to be paid by us, we have agreed to reimburse the underwriters for certain of their out-of-pocket expenses incurred in connection with this offering, including, among other things, the reasonable fees and disbursements of counsel for the underwriters as set forth in the underwriting agreement, in an amount not greater than \$125,000 and to pay the underwriter a cash commission equal to eight percent (8.0%) of the securities sold to investors in the offering and four percent (4.0%) for Company-introduced investors.

The expenses of the offering, not including the underwriting discount and commissions, are estimated at \$ and are payable by us.

### **Representative Warrants**

In addition, we have agreed to issue the representative warrants to purchase up to shares of common stock (representing 5.0% of the aggregate number of shares of common stock sold in this offering), at an exercise price of \$ per share (representing 120% of the public offering price for a share of common stock to be sold in this offering). The representative warrants will be exercisable immediately and for five years from the date of the underwriting agreement.

### **No Sales of Similar Securities**

Except for the shares of common stock to be sold hereunder, we have agreed not to, directly or indirectly, (1) offer for sale, sell, issue, contract to sell, pledge or otherwise dispose of (or enter into any transaction or device that is designed to, or could be expected to, result in the disposition by any person at any time in the future of) any shares of common stock or securities of the Company convertible into or exercisable or exchangeable for common stock, or sell or grant options, rights or warrants with respect to any shares of common stock or securities convertible into or exchangeable for common stock (other than the grant of options or other equity awards in the ordinary course of business pursuant to incentive plans described in the registration statement of which this prospectus forms a part), (2) enter into any swap or other derivatives transaction that transfers to another, in whole or in part, any of the economic benefits or risks of ownership of such shares of common stock, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of common stock or other securities, in cash or otherwise, (3) offer to purchase, purchase or contract to purchase or grant any option, right or warrant to purchase common stock or securities convertible, exercisable or exchangeable into common stock or any other securities, (4) file or cause to be filed a registration statement, including any amendments, with respect to the registration of any shares of common stock or securities convertible, exercisable or exchangeable into common stock or any other securities (other than any registration statement on Form S-8 or any successor form thereto relating to securities granted or to be granted pursuant to any plan in effect on the date of the final prospectus supplement for this offering and described in the prospectus, provided that no such registered securities shall be issued by us during the lock-up period), (5) establish or increase a put equivalent position or liquidate or decrease a call equivalent position in securities or (6) publicly disclose the intention to do any of the foregoing, in each case without the prior written consent of the representative on behalf of the underwriters for a period of 30 days after the date of the final prospectus supplement for this offering.

Our executive officers, directors and certain of our stockholders have entered into lock-up agreements with the underwriters pursuant to which each of these persons or entities, with limited exceptions, may not, directly or indirectly, without the prior written consent of Laidlaw & Company (UK) Ltd.: (1) offer for sale, sell, contract to sell, pledge, or otherwise dispose of (or enter into any transaction or device that is designed to, or could be expected to, result in the disposition by any person at any time in the future of), directly or indirectly, any shares of common stock (including, without limitation, shares of common stock that may be deemed to be beneficially owned by the undersigned in accordance with the rules and regulations of the SEC and shares of common stock that may be issued upon exercise of any options or warrants) or securities convertible into or exercisable or exchangeable for common stock, (2) enter into any swap, hedge or other derivatives transaction that transfers to another, in whole or in part, any of the economic benefits or risks of ownership of shares of common stock, whether any such transaction described in clause (1) or (2) above is to be settled by delivery of common stock or other securities, in cash or otherwise, (3) make any demand for, exercise, or participate in any right or cause to be filed a registration statement, including any amendments thereto, with respect to the registration of any shares of common stock or securities convertible into or exercisable or exchangeable for shares of common stock or any other securities or (4) publicly disclose the intention to do any of the foregoing, for a period of 30 days after the date of the final prospectus supplement for this offering. Notwithstanding the foregoing, our executive officers, directors and certain of our stockholders may transfer their respective shares of common stock or securities convertible into or exercisable or exchangeable for common stock (i) as a *bona fide* gift or gifts, (ii) to any trust for the direct or indirect benefit of the undersigned or the immediate family of the undersigned, provided that any such transfer shall not involve a disposition for value, and provided further, that it shall be a condition to any transfer pursuant to clauses (i) or (ii) that (A) the transferee or donee, as applicable, agrees to be bound by the terms of the lock-up agreement (including, without limitation, the restrictions set forth in the preceding sentence) to the same extent as if the transferee or donee, as applicable, were a party thereto, and (B) the lock-up signatory notifies Laidlaw & Company (UK) Ltd. at least two business days prior to the proposed transfer or disposition, or (iii) if acquired by the lock-up signatory in open market transactions on or after the date of the final prospectus supplement related to this offering, provided that, with respect to clauses (i) through (iii), each party (donor, donee, transferor or transferee) shall not be required by law (including without limitation the disclosure requirements of the Securities Act and the Exchange Act) to make, and shall agree not to voluntarily make, any filing or public announcement of the transfer or disposition prior to the expiration of the 30 days after the date of the final prospectus supplement for this offering.

### **Nasdaq Listing**

The shares are listed on the Nasdaq Capital Market under the symbol “BSGM.”

### **Price Stabilization, Short Positions and Penalty Bids**

Until the distribution of the shares is completed, SEC rules may limit underwriters and selling group members from bidding for and purchasing our common stock. However, the representative may engage in transactions that stabilize the price of the common stock, such as bids or purchases to peg, fix or maintain that price.

In connection with the offering, the underwriters may purchase and sell our common stock in the open market. These transactions may include short sales, purchases on the open market to cover positions created by short sales and stabilizing transactions. Short sales involve the sale by the underwriters of a greater number of shares than they are required to purchase in the offering. “Covered” short sales are sales made in an amount not greater than the underwriters’ option to purchase additional shares described above. The underwriters may close out any covered short position by either exercising their option to purchase additional shares or purchasing shares in the open market. In determining the source of shares to close out the covered short position, the underwriters will consider, among other things, the price of shares available for purchase in the open market as compared to the price at which they may purchase shares through the option granted to them. “Naked” short sales are sales in excess of such option. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of our common stock in the open market after pricing that could adversely affect investors who purchase in the offering. Stabilizing transactions consist of various bids for or purchases of shares of common stock made by the underwriters in the open market prior to the completion of the offering.

Similar to other purchase transactions, the underwriters’ purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of our common stock or preventing or retarding a decline in the market price of our common stock. Penalty bids permit the underwriter to reclaim a selling concession from a syndicate member when the common stock originally sold by the syndicate member is purchased in a stabilizing or syndicate covering transaction to cover syndicate short positions. As a result, the price of our common stock may be higher than the price that might otherwise exist in the open market. The underwriters may conduct these transactions on the Nasdaq Capital Market, in the over-the-counter market or otherwise.

Neither we nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of our common stock. In addition, neither we nor any of the underwriters make any representation that the representative will engage in these transactions or that these transactions, once commenced, will not be discontinued without notice.

### **Nasdaq Passive Market Making**

In connection with this offering, underwriters and selling group members may engage in passive market making transactions in the common stock on the Nasdaq Capital Market in accordance with Rule 103 of Regulation M under the Exchange Act during a period before the commencement of offers or sales of common stock and extending through the completion of distribution. A passive market maker must display its bid at a price not in excess of the highest independent bid of that security. However, if all independent bids are lowered below the passive market maker’s bid, that bid must then be lowered when specified purchase limits are exceeded. Passive market making may cause the price of our common stock to be higher than the price that otherwise would exist in the open market in the absence of those transactions. The underwriters and dealers are not required to engage in passive market making and may end passive market making activities at any time.

### **Electronic Distribution**

In connection with the offering, certain of the underwriters or securities dealers may distribute prospectuses by electronic means, such as e-mail.

### **Other Relationships**

Some of the underwriters and their affiliates have engaged in, and may in the future engage in, investment banking and other commercial dealings in the ordinary course of business with us or our affiliates. They have received, or may in the future receive, customary fees and commissions for these transactions.

In addition, in the ordinary course of their business activities, the underwriters and their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers. Such investments and securities activities may involve securities and/or instruments of ours or our affiliates. The underwriters and their affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or financial instruments and may hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Patrick J. Gallagher, one of our directors, is an employee of Laidlaw & Company (UK) Ltd. 919 shares are owned by Laidlaw & Company (UK) Ltd. Warrants to purchase 125,000 shares are owned by Laidlaw & Company (UK) Ltd.

### **European Economic Area**

In relation to each Member State of the European Economic Area (each, a "Member State"), no shares have been offered or will be offered pursuant to the offering to the public in that Member State prior to the publication of a prospectus in relation to the shares which has been approved by the competent authority in that Member State or, where appropriate, approved in another Member State and notified to the competent authority in that Member State, all in accordance with the Prospectus Regulation, except that offers of shares may be made to the public in that Member State at any time under the following exemptions under the Prospectus Regulation:

(a) to any legal entity which is a qualified investor as defined under the Prospectus Regulation;

(b) to fewer than 150 natural or legal persons (other than qualified investors as defined under the Prospectus Regulation), subject to obtaining the prior consent of the underwriter; or

(c) in any other circumstances falling within Article 1(4) of the Prospectus Regulation,

*provided* that no such offer of Shares shall require us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation and each person who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with the underwriter and the Company that it is a "qualified investor" within the meaning of Article 2(e) of the Prospectus Regulation. In the case of any shares being offered to a financial intermediary as that term is used in the Prospectus Regulation, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer of any shares to the public than their offer or resale in a Member State to qualified investors as so defined or in circumstances in which the prior consent of the underwriter has been obtained to each such proposed offer or resale.

For the purposes of this provision, the expression an "offer to the public" in relation to shares in any Member State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares, and the expression "Prospectus Regulation" means Regulation (EU) 2017/1129.

The above selling restriction is in addition to any other selling restrictions set out below.

### **Notice to Prospective Investors in the United Kingdom**

In addition, in the United Kingdom, this document is being distributed only to, and is directed only at, and any offer subsequently made may only be directed at persons who are "qualified investors" (as defined in the Prospectus Regulation) (i) who have professional experience in matters relating to investments falling within Article 19 (5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the "Order") and/or (ii) who are high net worth companies (or persons to whom it may otherwise be lawfully communicated) falling within Article 49(2)(a) to (d) of the Order (all such persons together being referred to as "relevant persons") or otherwise in circumstances which have not resulted and will not result in an offer to the public of the shares in the United Kingdom within the meaning of the Financial Services and Markets Act 2000.

Any person in the United Kingdom that is not a relevant person should not act or rely on the information included in this document or use it as basis for taking any action. In the United Kingdom, any investment or investment activity that this document relates to may be made or taken exclusively by relevant persons.

### **Notice to Prospective Investors in Switzerland**

The shares may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange (“SIX”) or on any other stock exchange or regulated trading facility in Switzerland. This document does not constitute a prospectus within the meaning of, and has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this document nor any other offering or marketing material relating to the shares or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, the Company, the shares have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of shares will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA (“FINMA”), and the offer of shares has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes (“CISA”). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of shares.

### **Notice to Prospective Investors in the Dubai International Financial Centre**

This document relates to an Exempt Offer in accordance with the Markets Rules 2012 of the Dubai Financial Services Authority (“DFSA”). This document is intended for distribution only to persons of a type specified in the Markets Rules 2012 of the DFSA. It must not be delivered to, or relied on by, any other person. The DFSA has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this prospectus supplement nor taken steps to verify the information set forth herein and has no responsibility for this document. The shares to which this document relates may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the shares offered should conduct their own due diligence on the shares. If you do not understand the contents of this document you should consult an authorized financial advisor.

In relation to its use in the DIFC, this document is strictly private and confidential and is being distributed to a limited number of investors and must not be provided to any person other than the original recipient, and may not be reproduced or used for any other purpose. The interests in the shares may not be offered or sold directly or indirectly to the public in the DIFC.

### **Notice to Prospective Investors in Australia**

No placement document, prospectus, product disclosure statement or other disclosure document has been lodged with the Australian Securities and Investments Commission (“ASIC”), in relation to the offering. This prospectus does not constitute a prospectus, product disclosure statement or other disclosure document under the Corporations Act 2001 (the “Corporations Act”), and does not purport to include the information required for a prospectus, product disclosure statement or other disclosure document under the Corporations Act.

Any offer in Australia of the shares may only be made to persons (the “Exempt Investors”) who are “sophisticated investors” (within the meaning of section 708(8) of the Corporations Act), “professional investors” (within the meaning of section 708(11) of the Corporations Act) or otherwise pursuant to one or more exemptions contained in section 708 of the Corporations Act so that it is lawful to offer the shares without disclosure to investors under Chapter 6D of the Corporations Act.

The shares applied for by Exempt Investors in Australia must not be offered for sale in Australia in the period of 12 months after the date of allotment under the offering, except in circumstances where disclosure to investors under Chapter 6D of the Corporations Act would not be required pursuant to an exemption under section 708 of the Corporations Act or otherwise or where the offer is pursuant to a disclosure document which complies with Chapter 6D of the Corporations Act. Any person acquiring shares must observe such Australian on-sale restrictions.

This prospectus contains general information only and does not take account of the investment objectives, financial situation or particular needs of any particular person. It does not contain any securities recommendations or financial product advice. Before making an investment decision, investors need to consider whether the information in this prospectus is appropriate to their needs, objectives and circumstances, and, if necessary, seek expert advice on those matters.

### **Notice to Prospective Investors in Hong Kong**

The shares have not been offered or sold and will not be offered or sold in Hong Kong, by means of any document, other than (a) to “professional investors” as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong (the “SFO”)) of Hong Kong and any rules made thereunder; or (b) in other circumstances which do not result in the document being a “prospectus” as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32) of Hong Kong (the “CO”) or which do not constitute an offer to the public within the meaning of the CO. No advertisement, invitation or document relating to the shares has been or may be issued or has been or may be in the possession of any person for the purposes of issue, whether in Hong Kong or elsewhere, which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to “professional investors” as defined in the SFO and any rules made thereunder.

### **Notice to Prospective Investors in Canada**

This prospectus constitutes an “exempt offering document” as defined in and for the purposes of applicable Canadian securities laws. No prospectus has been filed with any securities commission or similar regulatory authority in Canada in connection with the offer and sale of the shares. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon this prospectus or on the merits of the shares and any representation to the contrary is an offence.

**Canadian investors are advised that this prospectus has been prepared in reliance on section 3A.3 of National Instrument 33-105 *Underwriting Conflicts* (“NI 33-105”). Pursuant to section 3A.3 of NI 33-105, this prospectus is exempt from the requirement that the Company and the underwriter provide Canadian investors with certain conflicts of interest disclosure pertaining to “connected issuer” and/or “related issuer” relationships that may exist between the Company and the underwriter as would otherwise be required pursuant to subsection 2.1(1) of NI 33-105.**

#### *Resale Restrictions*

The offer and sale of the shares in Canada is being made on a private placement basis only and is exempt from the requirement that the Company prepares and files a prospectus under applicable Canadian securities laws. Any resale of shares acquired by a Canadian investor in this offering must be made in accordance with applicable Canadian securities laws, which may vary depending on the relevant jurisdiction, and which may require resales to be made in accordance with Canadian prospectus requirements, pursuant to a statutory exemption from the prospectus requirements, in a transaction exempt from the prospectus requirements or otherwise under a discretionary exemption from the prospectus requirements granted by the applicable local Canadian securities regulatory authority. These resale restrictions may under certain circumstances apply to resales of the shares outside of Canada.

#### *Representations of Purchasers*

Each Canadian investor who purchases the shares will be deemed to have represented to the Company, the underwriter and to each dealer from whom a purchase confirmation is received, as applicable, that the investor is (i) purchasing as principal, or is deemed to be purchasing as principal in accordance with applicable Canadian securities laws, for investment only and not with a view to resale or redistribution; (ii) an “accredited investor” as such term is defined in section 1.1 of National Instrument 45-106 *Prospectus Exemptions* or, in Ontario, as such term is defined in section 73.3(1) of the *Securities Act* (Ontario); and (iii) is a “permitted client” as such term is defined in section 1.1 of National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*.

#### *Taxation and Eligibility for Investment*

Any discussion of taxation and related matters contained in this prospectus does not purport to be a comprehensive description of all of the tax considerations that may be relevant to a Canadian investor when deciding to purchase the shares and, in particular, does not address any Canadian tax considerations. No representation or warranty is hereby made as to the tax consequences to a resident, or deemed resident, of Canada of an investment in the shares or with respect to the eligibility of the shares for investment by such investor under relevant Canadian federal and provincial legislation and regulations.

*Rights of Action for Damages or Rescission*

Securities legislation in certain of the Canadian jurisdictions provides certain purchasers of securities pursuant to an offering memorandum (such as this prospectus), including where the distribution involves an “eligible foreign security” as such term is defined in Ontario Securities Commission Rule 45-501 *Ontario Prospectus and Registration Exemptions* and in Multilateral Instrument 45-107 *Listing Representation and Statutory Rights of Action Disclosure Exemptions*, as applicable, with a remedy for damages or rescission, or both, in addition to any other rights they may have at law, where the offering memorandum, or other offering document that constitutes an offering memorandum, and any amendment thereto, contains a “misrepresentation” as defined under applicable Canadian securities laws. These remedies, or notice with respect to these remedies, must be exercised or delivered, as the case may be, by the purchaser within the time limits prescribed under, and are subject to limitations and defences under, applicable Canadian securities legislation. In addition, these remedies are in addition to and without derogation from any other right or remedy available at law to the investor.

*Language of Documents*

Upon receipt of this document, each Canadian investor hereby confirms that it has expressly requested that all documents evidencing or relating in any way to the sale of the securities described herein (including for greater certainty any purchase confirmation or any notice) be drawn up in the English language only. *Par la réception de ce document, chaque investisseur canadien confirme par les présentes qu’il a expressément exigé que tous les documents faisant foi ou se rapportant de quelque manière que ce soit à la vente des valeurs mobilières décrites aux présentes (incluant, pour plus de certitude, toute confirmation d’achat ou tout avis) soient rédigés en anglais seulement.*

**LEGAL MATTERS**

The validity of the shares of common stock offered by this prospectus supplement and the accompanying prospectus will be passed upon for us by Haynes and Boone, LLP, New York, New York. Sheppard, Mullin, Richter & Hampton LLP, New York, New York, is acting as counsel for the underwriters in connection with the shares of common stock offered hereby.

**EXPERTS**

Our financial statements as of December 31, 2021 and 2020 and for the years then ended incorporated in this prospectus supplement by reference to the Annual Report on Form 10-K have been audited by Friedman LLP, an independent registered public accounting firm, as stated in its report appearing in the registration statement, including the explanatory paragraph regarding our ability to continue as a going concern, and are so incorporated in reliance upon the report of such firm given upon its authority as experts in accounting and auditing.

**WHERE YOU CAN FIND MORE INFORMATION**

We have filed with the SEC a registration statement on Form S-3 under the Securities Act, of which this prospectus supplement forms a part. The rules and regulations of the SEC allow us to omit from this prospectus supplement and the accompanying prospectus certain information included in the registration statement. For further information about us and the securities we are offering under this prospectus supplement, you should refer to the registration statement and the exhibits and schedules filed with the registration statement. With respect to the statements contained in this prospectus supplement and the accompanying prospectus regarding the contents of any agreement or any other document, in each instance, the statement is qualified in all respects by the complete text of the agreement or document, a copy of which has been filed as an exhibit to the registration statement.

We file reports, proxy statements and other information with the SEC. The SEC maintains a website that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. The address of the SEC’s website is [www.sec.gov](http://www.sec.gov).

We make available free of charge on or through our website at [www.biosig.com](http://www.biosig.com), 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 or furnished pursuant to Section 13(a) or 15(d) of the Exchange Act, as soon as reasonably practicable after we electronically file such material with or otherwise furnish it to the SEC. The information on, or accessible through, our website is not part of, and is not incorporated into, this prospectus supplement or the accompanying prospectus and should not be considered part of this prospectus supplement or the accompanying prospectus.

## INFORMATION INCORPORATED BY REFERENCE

The SEC's rules allow us to "incorporate by reference" information into this prospectus supplement, which means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is deemed to be part of this prospectus supplement and the accompanying prospectus, and subsequent information that we file with the SEC will automatically update and supersede that information. Any statement contained in a previously filed document incorporated by reference will be deemed to be modified or superseded for purposes of this prospectus supplement and accompanying prospectus to the extent that a statement contained in this prospectus supplement or the accompanying prospectus modifies or replaces that statement.

We incorporate by reference our documents listed below and any future filings made by us with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act in this prospectus supplement, between the date of this prospectus supplement and the termination of the offering of the securities described in this prospectus supplement. We are not, however, incorporating by reference any documents or portions thereof, whether specifically listed below or filed in the future, that are not deemed "filed" with the SEC, including our Compensation Committee report and performance graph or any information furnished pursuant to Items 2.02 or 7.01 of Form 8-K or related exhibits furnished pursuant to Item 9.01 of Form 8-K, unless such Form 8-K expressly provides to the contrary.

This prospectus supplement and the accompanying prospectus incorporate by reference the documents set forth below that have previously been filed with the SEC:

- our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on [March 31, 2022](#) (as amended on Form 10-K/A on [May 2, 2022](#));
- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022, filed with the SEC on [May 16, 2022](#);
- our Current Reports on Form 8-K filed with the SEC on [March 22, 2022](#), [March 24, 2022](#), [April 28, 2022](#), [May 2, 2022](#) and [May 17, 2022](#); and
- the description of the Company's common stock and warrants contained in the Form 8-A filed with the SEC on [September 17, 2018](#), as amended by [Exhibit 4.1](#) to our Annual Report on Form 10-K for the fiscal year ended December 31, 2021 including any amendments thereto or reports filed for the purposes of updating this description.

All reports and other documents we subsequently file pursuant to Section 13(a), 13(c), 14 or 15(d) of the Exchange Act prior to the termination of this offering, including, but excluding any information furnished to, rather than filed with, the SEC, will also be incorporated by reference into this prospectus supplement and the accompanying prospectus and deemed to be part of this prospectus supplement and the accompanying prospectus from the date of the filing of such reports and documents.

You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus supplement is accurate as of any date other than the date of this prospectus supplement or the date of the documents incorporated by reference in this prospectus supplement.

You may request a free copy of any of the documents incorporated by reference in this prospectus supplement and the accompanying prospectus (other than exhibits, unless they are specifically incorporated by reference in the documents) by writing or telephoning us at the following address:

BioSig Technologies, Inc.  
Attn: Chief Executive Officer  
55 Greens Farms Road, 1st Floor  
Westport, CT 06880  
(203) 409-5444

You may also access the documents incorporated by reference in this prospectus through our website at [www.biosig.com](http://www.biosig.com). Except for the specific incorporated documents listed above, no information available on or through our website shall be deemed to be incorporated in this prospectus or the registration statement of which it forms a part.





**\$75,000,000**  
**Common Stock**  
**Preferred Stock**  
**Warrants**  
**Units**

We may offer and sell from time to time, in one or more series or issuances and on terms that we will determine at the time of the offering, any combination of the securities described in this prospectus, up to an aggregate amount of \$75,000,000.

We will provide specific terms of any offering in a supplement to this prospectus. Any prospectus supplement may also add, update, or change information contained in this prospectus. You should carefully read this prospectus and the applicable prospectus supplement as well as the documents incorporated or deemed to be incorporated by reference in this prospectus before you purchase any of the securities offered hereby.

These securities may be offered and sold in the same offering or in separate offerings; to or through underwriters, dealers, and agents; or directly to purchasers. The names of any underwriters, dealers, or agents involved in the sale of our securities, their compensation and any over-allotment options held by them will be described in the applicable prospectus supplement. See "Plan of Distribution."

Our common stock is listed on The Nasdaq Capital Market under the symbol "BSGM." On December 30, 2020, the last reported sale price of our common stock was \$4.13 per share as reported on The Nasdaq Capital Market. We recommend that you obtain current market quotations for our common stock prior to making an investment decision. We will provide information in any applicable prospectus supplement regarding any listing of securities other than shares of our common stock on any securities exchange.

**You should carefully read this prospectus, any prospectus supplement relating to any specific offering of securities, and all information incorporated by reference herein and therein.**

**Investing in our securities involves a high degree of risk. These risks are discussed in this prospectus under "Risk Factors" beginning on page 6 and in the documents incorporated by reference in this prospectus.**

**Neither the Securities and Exchange Commission (the "SEC") nor any state securities commission has approved or disapproved of these securities or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.**

The date of this prospectus is January 12, 2021

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## ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement on Form S-3 that we filed with the SEC using a “shelf” registration process. Under this shelf process, we may, from time to time, sell any combination of the securities described in this prospectus in one or more offerings up to a total amount of \$75,000,000.

This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add to, update or change information contained in the prospectus and, accordingly, to the extent inconsistent, information in this prospectus is superseded by the information in the prospectus supplement.

The prospectus supplement to be attached to the front of this prospectus may describe, as applicable: the terms of the securities offered; the public offering price; the price paid for the securities; net proceeds; and the other specific terms related to the offering of the securities.

You should only rely on the information contained or incorporated by reference in this prospectus and any prospectus supplement or issuer free writing prospectus relating to a particular offering. No person has been authorized to give any information or make any representations in connection with this offering other than those contained or incorporated by reference in this prospectus, any accompanying prospectus supplement and any related issuer free writing prospectus in connection with the offering described herein and therein, and, if given or made, such information or representations must not be relied upon as having been authorized by us. Neither this prospectus nor any prospectus supplement nor any related issuer free writing prospectus shall constitute an offer to sell or a solicitation of an offer to buy offered securities in any jurisdiction in which it is unlawful for such person to make such an offering or solicitation. This prospectus does not contain all of the information included in the registration statement. For a more complete understanding of the offering of the securities, you should refer to the registration statement, including its exhibits.

You should read the entire prospectus and any prospectus supplement and any related issuer free writing prospectus, as well as the documents incorporated by reference into this prospectus or any prospectus supplement or any related issuer free writing prospectus, before making an investment decision. Neither the delivery of this prospectus or any prospectus supplement or any issuer free writing prospectus nor any sale made hereunder shall under any circumstances imply that the information contained or incorporated by reference herein or in any prospectus supplement or issuer free writing prospectus is correct as of any date subsequent to the date hereof or of such prospectus supplement or issuer free writing prospectus, as applicable. You should assume that the information appearing in this prospectus, any prospectus supplement or any document incorporated by reference is accurate only as of the date of the applicable documents, regardless of the time of delivery of this prospectus or any sale of securities. Our business, financial condition, results of operations and prospects may have changed since that date.

All references in this prospectus to “BioSig,” the “Company,” “we,” “us,” “our,” or similar terms refer to BioSig Technologies, Inc. and its subsidiaries taken as a whole, except where the context otherwise requires or as otherwise indicated.

## CAUTIONARY STATEMENT REGARDING FORWARD LOOKING STATEMENTS

This prospectus and the documents incorporated by reference herein contain forward-looking statements within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Any statements about our expectations, beliefs, plans, objectives, assumptions or future events or performance are not historical facts and may be forward-looking. These statements are often, but are not always, made through the use of words or phrases such as “anticipate,” “believe,” “contemplate,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “seek,” “should,” “target,” “will,” and “would,” or the negative of these terms, or similar expressions. Such forward-looking statements are subject to certain risks, uncertainties and assumptions relating to factors that could cause actual results to differ materially from those anticipated in such statements, including, without limitation, the following:

- our history of recurring losses and negative cash flows from operating activities and the uncertainty regarding the adequacy of our liquidity to pursue or complete our business objectives, and substantial doubt regarding our ability to continue as a going concern;
- the results of ongoing and future clinical studies;
- our inability to successfully develop or commercialize our product candidates;
- market acceptance of existing and new products;
- our inability to carry out research, development and commercialization plans;
- our inability to complete preclinical testing and clinical trials as anticipated;
- changes in our relationship with key collaborators;
- our ability to adequately protect and enforce rights to intellectual property;
- our need to raise additional capital to meet our business requirements in the future and the difficulties in obtaining financing on commercially reasonable terms, or at all;
- intense competition in our industry, with competitors having substantially greater financial, technological, research and development, regulatory and clinical, manufacturing, marketing and sales, distribution and personnel resources than we do;

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- entry of new competitors and products and potential technological obsolescence of our products;
- effect of healthcare legislation or reform measures that may substantially change the market for medical care or healthcare coverage in the U.S.;
- our failure to obtain regulatory approvals;
- adverse market and economic conditions;
- our ability to maintain the listing of our common stock on The Nasdaq Capital Market;
- our business, results of operations and financial condition may be adversely impacted by public health epidemics, including the COVID-19 outbreak;
- loss of one or more key executives;
- difficulties in securing and retaining regulatory approval to market our product and product candidates; and
- depth of the trading market in our common stock.

You should read this prospectus, the applicable prospectus supplement and any related free-writing prospectus and the documents incorporated by reference in this prospectus with the understanding that our actual future results, levels of activity, performance and events and circumstances may be materially different from what we expect. The forward-looking statements contained or incorporated by reference in this prospectus or any prospectus supplement are expressly qualified in their entirety by this cautionary statement. We do not undertake any obligation to publicly update any forward-looking statement to reflect events or circumstances after the date on which any such statement is made or to reflect the occurrence of unanticipated events.

## PROSPECTUS SUMMARY

*This summary provides an overview of selected information contained elsewhere or incorporated by reference in this prospectus and does not contain all of the information you should consider before investing in our securities. You should carefully read the prospectus, the information incorporated by reference and the registration statement of which this prospectus is a part in their entirety before investing in our securities, including the information discussed under “Risk Factors” in this prospectus and the documents incorporated by reference and our financial statements and notes thereto that are incorporated by reference in this prospectus. Some of the statements in this prospectus and the documents incorporated by reference herein constitute forward-looking statements that involve risks and uncertainties. See information set forth under the section “Cautionary Statement Regarding Forward-Looking Statements.”*

### Overview

#### **BioSig Technologies, Inc.**

We are a medical technology company commercializing a proprietary biomedical signal processing platform designed to improve signal fidelity and uncover the full range of electrocardiogram (“ECG”) and intra-cardiac signals. Our initial emphasis is on providing intracardiac signal information to electrophysiologists during electrophysiology (“EP”) studies and cardiac catheter ablation procedures. Cardiac catheter ablation is a procedure that involves delivery of energy through the tip of a catheter that scars or destroys heart tissue in order to correct heart rhythm disturbances. In August 2018, we received 510(k) clearance from the U.S. Food and Drug Administration (the “FDA”) to market our PURE (Precise Uninterrupted Real-time evaluation of Electrograms) EP System.

PURE EP™ is a proprietary signal acquisition and processing technology. Our device is a computerized system intended for acquiring, digitizing, amplifying, filtering, measuring and calculating, displaying, recording, and storing of electrocardiographic and intracardiac signals for patients undergoing EP procedures in an EP laboratory under the supervision of licensed healthcare practitioners who are responsible for interpreting the data. The device aims to minimize noise and artifacts from cardiac recordings and acquire high-fidelity cardiac signals. Improving fidelity of acquired cardiac signals may potentially increase the diagnostic value of these signals, thereby possibly improving the accuracy and efficiency of the EP studies and related procedures.

Our initial focus is on improving intracardiac signal acquisition and enhancing diagnostic information for catheter ablation procedures for complex arrhythmias like ventricular tachycardia (“VT”), a potentially life-threatening arrhythmia, and atrial fibrillation (“AF”), the most common cardiac arrhythmia associated with a fivefold risk of stroke.

On February 18 and February 19, 2019, we conducted the first clinical cases with our PURE EP™ System. The observational patient cases were performed by Andrea Natale, M.D., F.A.C.C., F.H.R.S., F.E.S.C., Executive Medical Director, Texas Cardiac Arrhythmia Institute at St. David’s Medical Center in Austin, Texas. On April 16, 2019, we announced the completion of our second set of observational patient cases, which were performed at Prisma Health at Greenville Health System in South Carolina by Andrew Brenyo, MD, FHRS. Dr. Brenyo used the PURE EP™ System during procedures on patients with ischemic ventricular tachycardias, AF, PVC, and atypical flutters.

On May 6, 2019, we announced the completion of our third set of observational patient cases at Indiana University under the leadership of Prof. John M. Miller, M.D., and Dr. Mithilesh K. Das, MBBS. Drs. Miller and Das used the PURE EP™ System during procedures on patients with atypical flutter, atrioventricular nodal reentry tachycardia (AVNRT), AF, supraventricular tachycardia, premature ventricular contractions, and a rare case of dual septal pathway. In August 2019, observational patient cases at Santa Barbara Cottage Hospital in California were performed by Brett Andrew Gidney, M.D. The initial experience across these early evaluation centers showed the PURE EP™ System functions as designed with positive feedback from EP users about the improved signal detection and fidelity.

In November 2019, we commenced our first clinical study for the PURE EP™ System titled, “Novel Cardiac Signal Processing System for Electrophysiology Procedures (PURE EP 2.0 Study).” Texas Cardiac Arrhythmia Research Foundation (TCARF) in Austin, Texas, was the first institution to conduct patient cases under the clinical study. On January 16, 2020, we announced the installation of a PURE EP™ System at Mayo Clinic Florida campus in Jacksonville, Florida. Mayo Clinic was the second institution to conduct patient cases under the same clinical study.

On August 4, 2020, the Company announced the installation of a PURE EP™ System at Massachusetts General Hospital (MGH) as part of the expanding clinical study. On September 23, 2020, we installed PURE EP™ System at the University of Pennsylvania Hospital, and on October 29, 2020, we announced the installation of our PURE EP™ System at the Deborah Heart and Lung Center in Browns Mills, New Jersey for clinical evaluation. As of December 30, 2020, 74 patients have been enrolled in the study.

In addition to clinical evaluation, we have conducted a total of twenty-seven pre-clinical studies with the PURE EP™ System, twenty-two of which were performed at Mayo Clinic in Rochester, Minnesota. We also conducted a pre-clinical study at the Mount Sinai Hospital in New York, New York, with an emphasis on the VT model; and four pre-clinical studies at the University of Pennsylvania. We intend to continue additional research and development studies with our technology at Mayo Clinic and the University of Pennsylvania. We also intend to continue additional clinical external evaluation at a select number of other centers.

We have made progress towards obtaining a European CE marking certificate for medical devices. Leading up to a new Medical Device Regulation that was due to enter into full force in 2020 but has since been put on hold for one year, the European Notified Bodies reported delays in accepting and processing new applications throughout 2019. We intend to commence audit preparation for the International Organization for Standardization (“ISO”) 13485 and Medical Device Single Audit Program certification with the expectation to proceed with the audit to obtain the ISO 13485 Certification and CE Mark in the first half of 2021 and subsequently file for CE Mark in the second half of 2021.

In December 2020, we announced the sale of three PURE EP™ Systems to St. David’s Healthcare of Austin, Texas. Additionally, we are in active discussions with numerous accounts about the acquisition of the PURE EP™ System. We anticipate our initial customers will be medical centers of excellence and other health care facilities that operate EP labs.

### **Corporate Information**

We were formed as BioSig Technologies, Inc., a Nevada corporation, in February 2009. In April 2011, we merged with our wholly-owned subsidiary, BioSig Technologies Inc., a Delaware corporation, with the Delaware corporation continuing as the surviving entity. Our principal executive offices are located at 54 Wilton Road, 2nd Floor, Westport, Connecticut 06880, and our telephone number is (203) 409-5444. Our website address is [www.biosig.com](http://www.biosig.com). Our annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and all amendments to those reports, are available to you free of charge through the “Investors” section of our web site as soon as reasonably practicable after such materials have been electronically filed with, or furnished to, the SEC. Information contained on our website does not form a part of this prospectus.

### **The Securities We May Offer**

We may offer up to \$75,000,000 of common stock, preferred stock, warrants and/or units in one or more offerings and in any combination. This prospectus provides you with a general description of the securities we may offer. A prospectus supplement, which we will provide each time we offer securities, will describe the specific amounts, prices and terms of these securities.

### **Common Stock**

We may issue shares of our common stock from time to time. Holders of our common stock are entitled to receive ratably dividends as may be declared by the board of directors out of funds legally available for that purpose. We have never paid cash dividends on our common stock and do not anticipate paying any cash dividends in the foreseeable future but intend to retain our capital resources for reinvestment in our business. Any future disposition of dividends will be at the discretion of our board of directors and will depend upon, among other things, our future earnings, operating and financial condition, capital requirements, and other factors. Each share of common stock entitles the holder to one vote, either in person or by proxy, at meetings of stockholders. The holders are not permitted to vote their shares cumulatively. Accordingly, the stockholders of our common stock who hold, in the aggregate, more than fifty percent of the total voting rights can elect all of our directors and, in such event, the holders of the remaining minority shares will not be able to elect any of such directors. The vote of the holders of a majority of the issued and outstanding shares of common stock entitled to vote thereon is sufficient to authorize, affirm, ratify or consent to such act or action, except as otherwise provided by law. Holders of our common stock have no preemptive rights or other subscription rights, conversion rights, redemption or sinking fund provisions. Subject to the rights of the holders of our preferred stock, upon our liquidation, dissolution or winding up, the holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of any series of preferred stock, which may be designated solely by action of our board of directors and issued in the future.

### **Preferred Stock**

We may issue shares of our preferred stock from time to time, in one or more series. Our board of directors will determine the rights, preferences, privileges and restrictions of the preferred stock, including dividend rights, conversion rights, voting rights, terms of redemption, liquidation preferences, sinking fund terms and the number of shares constituting any series or the designation of such series, without any further vote or action by stockholders. Convertible preferred stock will be convertible into our common stock or exchangeable for our other securities. Conversion may be mandatory or at your option or both and would be at prescribed conversion rates.

If we sell any series of preferred stock under this prospectus and applicable prospectus supplements, we will fix the rights, preferences, privileges and restrictions of the preferred stock of such series in the certificate of designation relating to that series. We will file as an exhibit to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of any certificate of designation that describes the terms of the series of preferred stock we are offering before the issuance of the related series of preferred stock. We urge you to read the applicable prospectus supplement related to the series of preferred stock being offered, as well as the complete certificate of designation that contains the terms of the applicable series of preferred stock.

### **Warrants**

We may issue warrants for the purchase of common stock or preferred stock in one or more series. We may issue warrants independently or together with common stock or preferred stock, and the warrants may be attached to or separate from these securities. We will evidence each series of warrants by warrant certificates that we will issue under a separate agreement. We may enter into warrant agreements with a bank or trust company that we select to be our warrant agent. We will indicate the name and address of the warrant agent in the applicable prospectus supplement relating to a particular series of warrants.

In this prospectus, we have summarized certain general features of the warrants. We urge you, however, to read the applicable prospectus supplement related to the particular series of warrants being offered, as well as the warrant agreements and warrant certificates that contain the terms of the warrants. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference from reports that we file with the SEC, the form of warrant agreement or warrant certificate containing the terms of the warrants we are offering before the issuance of the warrants.

### **Units**

We may issue units consisting of common stock, preferred stock and/or warrants for the purchase of common stock or preferred stock in one or more series. In this prospectus, we have summarized certain general features of the units. We urge you, however, to read the applicable prospectus supplement related to the series of units being offered, as well as the unit agreements that contain the terms of the units. We will file as exhibits to the registration statement of which this prospectus is a part, or will incorporate by reference reports that we file with the SEC, the form of unit agreement and any supplemental agreements that describe the terms of the series of units we are offering before the issuance of the related series of units.



## RISK FACTORS

*An investment in our securities involves a high degree of risk. Before deciding whether to invest in our securities, you should consider carefully the specific factors discussed under the heading “Risk Factors” in the applicable prospectus supplement, together with all of the other information contained or incorporated by reference in the prospectus supplement or appearing or incorporated by reference in this prospectus. You should also consider the risks, uncertainties and assumptions discussed under Part II, Item 1A, “Risk Factors,” in our most recent Annual Report on Form 10-K or any updates in our Quarterly Reports on Form 10-Q, which are incorporated herein by reference, as updated or superseded by the risks and uncertainties described under similar headings in the other documents that are filed after the date hereof and incorporated by reference into this prospectus and any prospectus supplement related to a particular offering. The risks and uncertainties we have described are not the only ones we face. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our operations. Past financial performance may not be a reliable indicator of future performance, and historical trends should not be used to anticipate results or trends in future periods. If any of these risks actually occurs, our business, business prospects, financial condition or results of operations could be seriously harmed. This could cause the trading price of our common stock to decline, resulting in a loss of all or part of your investment. Please also read carefully the section above entitled “Cautionary Statement Regarding Forward-Looking Statements.”*

## USE OF PROCEEDS

We cannot assure you that we will receive any proceeds in connection with securities which may be offered pursuant to this prospectus. Unless otherwise indicated in the applicable prospectus supplement, we intend to use any net proceeds from the sale of securities under this prospectus for our operations and for other general corporate purposes, including, but not limited to, general working capital and possible future acquisitions. We have not determined the amounts we plan to spend on any of the areas listed above or the timing of these expenditures. As a result, our management will have broad discretion to allocate the net proceeds, if any, we receive in connection with securities offered pursuant to this prospectus for any purpose. Pending application of the net proceeds as described above, we may initially invest the net proceeds in investment-grade, interest-bearing securities such as money market funds, certificates of deposit, or direct or guaranteed obligations of the U.S. government, hold as cash or apply them to the reduction of short-term indebtedness.

## DESCRIPTION OF CAPITAL STOCK

The following description of common stock and preferred stock summarizes the material terms and provisions of the common stock and preferred stock that we may offer under this prospectus, but is not complete. For the complete terms of our common stock and preferred stock, please refer to our amended and restated certificate of incorporation, as amended, any certificates of designation for our preferred stock, and our amended and restated bylaws, as amended. While the terms we have summarized below will apply generally to any future common stock or preferred stock that we may offer, we will describe the specific terms of any series of preferred stock in more detail in the applicable prospectus supplement. If we so indicate in a prospectus supplement, the terms of any preferred stock we offer under that prospectus supplement may differ from the terms we describe below.

We have authorized 201,000,000 shares of capital stock, par value \$0.001 per share, of which 200,000,000 are shares of common stock and 1,000,000 are shares of “blank check” preferred stock, of which 200 are authorized as Series A Preferred Stock, 600 are authorized as Series B Preferred Stock, 4,200 are authorized as Series C Preferred Stock, 1,400 are authorized as Series D Preferred Stock, 1,000 are authorized as Series E Preferred Stock and 200,000 are authorized as Series F Junior Participating Preferred Stock. As of December 30, 2020, there were 30,719,498 shares of common stock issued and outstanding, 105 shares of Series C Preferred Stock issued and outstanding and no shares of our Series A Convertible Preferred Stock, Series B Convertible Preferred Stock, Series D Convertible Preferred Stock, Series E Convertible Preferred Stock or Series F Junior Participating Preferred Stock issued and outstanding. The authorized and unissued shares of common stock and the authorized and undesignated shares of preferred stock are available for issuance without further action by our stockholders, unless such action is required by applicable law or the rules of any stock exchange on which our securities may be listed. Unless approval of our stockholders is so required, our board of directors does not intend to seek stockholder approval for the issuance and sale of our common stock or preferred stock.

### Common Stock

The holders of common stock are entitled to one vote per share on all matters to be voted upon by stockholders. Holders of our common stock are entitled to receive ratably dividends as may be declared by the board of directors out of funds legally available for that purpose. We have never paid cash dividends on our common stock and do not anticipate paying any cash dividends in the foreseeable future but intend to retain our capital resources for reinvestment in our business. Any future disposition of dividends will be at the discretion of our board of directors and will depend upon, among other things, our future earnings, operating and financial condition, capital requirements, and other factors.

Each share of common stock entitles the holder to one vote, either in person or by proxy, at meetings of stockholders. The holders are not permitted to vote their shares cumulatively. Accordingly, the stockholders of our common stock who hold, in the aggregate, more than fifty percent of the total voting rights can elect all of our directors and, in such event, the holders of the remaining minority shares will not be able to elect any of such directors. The vote of the holders of a majority of the issued and outstanding shares of common stock entitled to vote thereon is sufficient to authorize, affirm, ratify or consent to such act or action, except as otherwise provided by law.

Holders of our common stock have no preemptive rights or other subscription rights, conversion rights, redemption or sinking fund provisions. Subject to the rights of the holders of our preferred stock, upon our liquidation, dissolution or winding up, the holders of our common stock will be entitled to share ratably in the net assets legally available for distribution to stockholders after the payment of all of our debts and other liabilities.

The transfer agent and registrar for our common stock is Action Stock Transfer Corporation. The transfer agent’s address is 2469 East Fort Union Blvd., Suite 214, Salt Lake City, UT 84121. Our common stock is listed on the Nasdaq Capital Market under the symbol “BSGM.”

### Preferred Stock

The board of directors is authorized, subject to any limitations prescribed by law, without further vote or action by the stockholders, to issue from time to time shares of preferred stock in one or more series. Each such series of preferred stock shall have such number of shares, designations, preferences, voting powers, qualifications, and special or relative rights or privileges as shall be determined by the board of directors, which may include, among others, dividend rights, voting rights, liquidation preferences, conversion rights and preemptive rights. Issuance of preferred stock by our board of directors may result in such shares having dividend and/or liquidation preferences senior to the rights of the holders of our common stock and could dilute the voting rights of the holders of our common stock.

Prior to the issuance of shares of each series of preferred stock, the board of directors is required by the Delaware General Corporation Law (the “DGCL”) and our certificate of incorporation to adopt resolutions and file a certificate of designation with the Secretary of State of the State of Delaware. The certificate of designation fixes for each class or series the designations, powers, preferences, rights, qualifications, limitations and restrictions, including, but not limited to, some or all of the following:

- the number of shares constituting that series and the distinctive designation of that series, which number may be increased or decreased (but not below the number of shares then outstanding) from time to time by action of the board of directors;
- the dividend rate and the manner and frequency of payment of dividends on the shares of that series, whether dividends will be cumulative, and, if so, from which date;
- whether that series will have voting rights, in addition to any voting rights provided by law, and, if so, the terms of such voting rights;
- whether that series will have conversion privileges, and, if so, the terms and conditions of such conversion, including provision for adjustment of the conversion rate in such events as the board of directors may determine;
- whether or not the shares of that series will be redeemable, and, if so, the terms and conditions of such redemption;
- whether that series will have a sinking fund for the redemption or purchase of shares of that series, and, if so, the terms and amount of such sinking fund;
- whether or not the shares of the series will have priority over or be on a parity with or be junior to the shares of any other series or class in any respect;
- the rights of the shares of that series in the event of voluntary or involuntary liquidation, dissolution or winding up of the corporation, and the relative rights or priority, if any, of payment of shares of that series; and
- any other relative rights, preferences and limitations of that series.

Once designated by our board of directors, each series of preferred stock may have specific financial and other terms that will be described in a prospectus supplement. The description of the preferred stock that is set forth in any prospectus supplement is not complete without reference to the documents that govern the preferred stock. These include our certificate of incorporation and any certificates of designation that our board of directors may adopt.

All shares of preferred stock offered hereby will, when issued, be fully paid and nonassessable, including shares of preferred stock issued upon the exercise of preferred stock warrants or subscription rights, if any.

Although our board of directors has no intention at the present time of doing so, it could authorize the issuance of a series of preferred stock that could, depending on the terms of such series, impede the completion of a merger, tender offer or other takeover attempt.

#### **Anti-Takeover Effects of Certain Provisions of Delaware Law, our Certificate of Incorporation, Bylaws and Stockholder Rights Agreement**

##### ***Delaware Law***

We are subject to Section 203 of the DGCL. Section 203 generally prohibits a public Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder, unless:

- prior to the date of the transaction, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;

- the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares outstanding (i) shares owned by persons who are directors and also officers and (ii) shares owned by employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or subsequent to the date of the transaction, the business combination is approved by the board and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock which is not owned by the interested stockholder.

Section 203 defines a business combination to include:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition involving the interested stockholder of 10% or more of the assets of the corporation;
- subject to exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder; or
- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

In general, Section 203 defines an “interested stockholder” as any entity or person beneficially owning 15% or more of the outstanding voting stock of the corporation and any entity or person affiliated with, or controlling, or controlled by, the entity or person. The term “owner” is broadly defined to include any person that, individually, with or through that person’s affiliates or associates, among other things, beneficially owns the stock, or has the right to acquire the stock, whether or not the right is immediately exercisable, under any agreement or understanding or upon the exercise of warrants or options or otherwise or has the right to vote the stock under any agreement or understanding, or has an agreement or understanding with the beneficial owner of the stock for the purpose of acquiring, holding, voting or disposing of the stock.

The restrictions in Section 203 do not apply to corporations that have elected, in the manner provided in Section 203, not to be subject to Section 203 of the DGCL or, with certain exceptions, which do not have a class of voting stock that is listed on a national securities exchange or held of record by more than 2,000 stockholders. Our certificate of incorporation and bylaws do not opt out of Section 203.

Section 203 could delay or prohibit mergers or other takeover or change in control attempts with respect to us and, accordingly, may discourage attempts to acquire us even though such a transaction may offer our stockholders the opportunity to sell their stock at a price above the prevailing market price.

#### ***Certificate of Incorporation and Bylaws***

Provisions of our certificate of incorporation and bylaws may delay or discourage transactions involving an actual or potential change in our control or change in our management, including transactions in which stockholders might otherwise receive a premium for their shares, or transactions that our stockholders might otherwise deem to be in their best interests. Therefore, these provisions could adversely affect the price of our common stock. Among other things, our certificate of incorporation and bylaws:

- permit our board of directors to issue up to 1,000,000 shares of preferred stock, without further action by the stockholders, with any rights, preferences and privileges as they may designate, including the right to approve an acquisition or other change in control;
- provide that the authorized number of directors may be changed only by a resolution adopted by a majority of the total number of authorized directors;
- do not provide for cumulative voting rights (therefore allowing the holders of a majority of the shares of common stock entitled to vote in any election of directors to elect all of the directors standing for election, if they should so choose); and
- provide advance notice provisions with which a stockholder who wishes to nominate a director or propose other business to be considered at a stockholder meeting must comply.

***Stockholder Rights Agreement***

On July 14, 2020, we entered into a stockholder rights agreement with Action Stock Transfer Corporation, as rights agent (the “Rights Agreement”), which entitles the holders of the rights to purchase from the Company 1/1,000th of a share of the Company’s Series F Junior Participating Preferred Stock, \$0.001 par value per share, at a purchase price of \$50.00 per share, subject to certain adjustments (a “Right”), upon certain trigger events. In connection therewith, on July 14, 2020, the board of directors authorized 200,000 shares of Series F Junior Participating Preferred Stock and it declared a dividend of one Right for each share of common stock of the Company outstanding as of July 27, 2020. Each 1/1,000th of a share of Series F Junior Participating Preferred Stock will essentially be the economic equivalent of one share of our common stock. However, until a Right is exercised or exchanged in accordance with the provisions of the Rights Agreement, the holder thereof will have no rights as a stockholder of the Company, including, but not limited to, the right to vote or to receive dividends.

The Rights do not separate from the common stock unless one or both of the following conditions are met: a public announcement that a person or group becomes the beneficial owner of 12% or more of the Company’s outstanding common stock (including in the form of synthetic ownership through derivative positions) (such person, an “Acquiring Person”), or a tender or exchange offer is made which, if completed, would result in the bidder becoming an Acquiring Person.

In the event that any person or group of affiliated or associated persons becomes an Acquiring Person, each holder of a right, other than rights beneficially owned by the Acquiring Person (which will become void), will have the right to purchase, at the right’s exercise price, a number of shares of the Company’s common stock (or equivalent securities) having a market value of twice the right’s exercise price. The rights may be redeemed by the Company for \$0.001 per right at any time until the first public announcement of the acquisition of beneficial ownership of 12% of the Company’s common stock.

The Rights expire upon the earliest to occur of (i) the close of business on July 13, 2021; (ii) the time at which the Rights are redeemed or exchanged pursuant to the Rights Agreement; and (iii) the time at which the Rights are terminated upon the closing of any merger or other acquisition transaction involving the Company pursuant to a merger or other acquisition agreement that has been approved by the Board prior to any person becoming an Acquiring Person.

The Rights have certain anti-takeover effects. The Rights may cause substantial dilution to a person or group of affiliated or associated persons that acquires beneficial ownership of 12% or more of the Company’s stock on terms not approved by the board of directors or takes other specified actions. As a result, the overall effect of the Rights may be to render more difficult or discourage any attempt to acquire us even if the acquisition may be favorable to the interests of our stockholders. Because the board of directors can redeem or exchange the Rights, the Rights should not interfere with a merger or other business combination approved by the board. We can make no assurances the rights plan will be effective in meeting its intended objectives, including to deter a change in control.

The description of our Series F Junior Participating Preferred Stock, which is contained in the Registration Statement on Form 8-A (File No. 001-38659) filed with the SEC on July 17, 2020, including any amendments or reports we file for purposes of updating that description, is incorporated herein by reference.

## DESCRIPTION OF WARRANTS

As of December 30, 2020, there were outstanding warrants to purchase 1,451,667 shares of common stock.

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

We will evidence each series of warrants by warrant certificates that we may issue under a separate agreement. We may enter into a warrant agreement with a warrant agent. Each warrant agent may be a bank that we select which has its principal office in the United States. We may also choose to act as our own warrant agent. We will indicate the name and address of any such warrant agent in the applicable prospectus supplement relating to a particular series of warrants.

We will describe in the applicable prospectus supplement the terms of the series of warrants, including:

- the offering price and aggregate number of warrants offered;
- if applicable, the designation and terms of the securities with which the warrants are issued and the number of warrants issued with each such security or each principal amount of such security;
- if applicable, the date on and after which the warrants and the related securities will be separately transferable;
- in the case of warrants to purchase common stock or preferred stock, the number or amount of shares of common stock or preferred stock, as the case may be, purchasable upon the exercise of one warrant and the price at which and currency in which these shares may be purchased upon such exercise;
- the manner of exercise of the warrants, including any cashless exercise rights;
- the warrant agreement under which the warrants will be issued;
- the effect of any merger, consolidation, sale or other disposition of our business on the warrant agreement and the warrants;
- anti-dilution provisions of the warrants, if any;
- the terms of any rights to redeem or call the warrants;
- any provisions for changes to or adjustments in the exercise price or number of securities issuable upon exercise of the warrants;
- the dates on which the right to exercise the warrants will commence and expire or, if the warrants are not continuously exercisable during that period, the specific date or dates on which the warrants will be exercisable;
- the manner in which the warrant agreement and warrants may be modified;
- the identities of the warrant agent and any calculation or other agent for the warrants;
- federal income tax consequences of holding or exercising the warrants;
- the terms of the securities issuable upon exercise of the warrants;
- any securities exchange or quotation system on which the warrants or any securities deliverable upon exercise of the warrants may be listed or quoted; and
- any other specific terms, preferences, rights or limitations of or restrictions on the warrants.

Before exercising their warrants, holders of warrants will not have any of the rights of holders of the securities purchasable upon such exercise, including, in the case of warrants to purchase common stock or preferred stock, the right to receive dividends, if any, or, payments upon our liquidation, dissolution or winding up or to exercise voting rights, if any.

**Exercise of Warrants**

Each warrant will entitle the holder to purchase the securities that we specify in the applicable prospectus supplement at the exercise price that we describe in the applicable prospectus supplement. Unless we otherwise specify in the applicable prospectus supplement, holders of the warrants may exercise the warrants at any time up to 5:00 P.M. eastern time, the close of business, on the expiration date that we set forth in the applicable prospectus supplement. After the close of business on the expiration date, unexercised warrants will become void.

Holders of the warrants may exercise the warrants by delivering the warrant certificate representing the warrants to be exercised together with specified information, and paying the required exercise price by the methods provided in the applicable prospectus supplement. We will set forth on the reverse side of the warrant certificate, and in the applicable prospectus supplement, the information that the holder of the warrant will be required to deliver to the warrant agent.

Upon receipt of the required payment and the warrant certificate properly completed and duly executed at the corporate trust office of the warrant agent or any other office indicated in the applicable prospectus supplement, we will issue and deliver the securities purchasable upon such exercise. If fewer than all of the warrants represented by the warrant certificate are exercised, then we will issue a new warrant certificate for the remaining amount of warrants.

**Enforceability of Rights by Holders of Warrants**

Any warrant agent will act solely as our agent under the applicable warrant agreement and will not assume any obligation or relationship of agency or trust with any holder of any warrant. A single bank or trust company may act as warrant agent for more than one issue of warrants. A warrant agent will have no duty or responsibility in case of any default by us under the applicable warrant agreement or warrant, including any duty or responsibility to initiate any proceedings at law or otherwise, or to make any demand upon us. Any holder of a warrant may, without the consent of the related warrant agent or the holder of any other warrant, enforce by appropriate legal action the holder's right to exercise, and receive the securities purchasable upon exercise of, its warrants in accordance with their terms.

**Warrant Agreement Will Not Be Qualified Under Trust Indenture Act**

No warrant agreement will be qualified as an indenture, and no warrant agent will be required to qualify as a trustee, under the Trust Indenture Act of 1939. Therefore, holders of warrants issued under a warrant agreement will not have the protection of the Trust Indenture Act of 1939 with respect to their warrants.

**Governing Law**

Unless we provide otherwise in the applicable prospectus supplement, each warrant agreement and any warrants issued under the warrant agreements will be governed by New York law.



## DESCRIPTION OF UNITS

We may issue units comprised of one or more of the other securities described in this prospectus or any prospectus supplement in any combination. Each unit will be issued so that the holder of the unit is also the holder, with the rights and obligations of a holder, of each security included in the unit. The unit agreement under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately, at any time or at any times before a specified date or upon the occurrence of a specified event or occurrence.

The applicable prospectus supplement will describe:

- the designation and the terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any unit agreement under which the units will be issued;
- any provisions for the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units; and
- whether the units will be issued in fully registered or global form.

## PLAN OF DISTRIBUTION

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

- to or through underwriters;
- through broker-dealers (acting as agent or principal);
- through agents;
- directly by us to one or more purchasers (including our affiliates and stockholders), 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 or free writing prospectus.

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 securities 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 or free writing prospectus;
- 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 applicable prospectus supplement or free writing prospectus will describe the terms of the offering of the securities, including:

- the name or names of any underwriters, if, and if required, any dealers or agents;
- the purchase price of the securities and the proceeds we will receive from the sale;
- any underwriting discounts and other items constituting underwriters’ compensation;
- any discounts or concessions allowed or re-allowed or paid to dealers; and
- any securities exchange or market on which the securities may be listed or traded.

We may distribute the securities from time to time in one or more transactions at:

- a fixed price or prices, which may be changed;
- market prices prevailing at the time of sale;
- prices related to such prevailing market prices; or
- negotiated prices.

Only underwriters named in the prospectus supplement are underwriters of the securities offered by the prospectus supplement.

If underwriters are used in an offering, we will execute an underwriting agreement with such underwriters and will specify the name of each underwriter and the terms of the transaction (including any underwriting discounts and other terms constituting compensation of the underwriters and any dealers) in a prospectus supplement. The securities may be offered to the public either through underwriting syndicates represented by managing underwriters or directly by one or more investment banking firms or others, as designated. If an underwriting syndicate is used, the managing underwriter(s) will be specified on the cover of the prospectus supplement. If underwriters are used in the sale, the offered securities will be acquired by the underwriters for their own accounts 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. Any public offering price and any discounts or concessions allowed or reallocated or paid to dealers may be changed from time to time. Unless otherwise set forth in the prospectus supplement, the obligations of the underwriters to purchase the offered securities will be subject to conditions precedent, and the underwriters will be obligated to purchase all of the offered securities, if any are purchased.

We may grant to the underwriters options to purchase additional securities to cover over-allotments, if any, at the public offering price, with additional underwriting commissions or discounts, as may be set forth in a related prospectus supplement. The terms of any over-allotment option will be set forth in the prospectus supplement for those securities.

If we use a dealer in the sale of the securities being offered pursuant to this prospectus or any prospectus supplement, we 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. The names of the dealers and the terms of the transaction will be specified in a prospectus supplement.

We may sell the securities directly or through agents we designate from time to time. We will name any agent involved in the offering and sale of securities and we will describe any commissions we will pay the agent in the prospectus supplement. Unless the prospectus supplement states otherwise, any agent will act on a best-efforts basis for the period of its appointment.

We may authorize agents or underwriters to solicit offers by institutional investors to purchase securities from us at the public offering price set forth in the prospectus supplement pursuant to delayed delivery contracts providing for payment and delivery on a specified date in the future. We will describe the conditions to these contracts and the commissions we must pay for solicitation of these contracts in the prospectus supplement.

In connection with the sale of the securities, underwriters, dealers or agents may receive compensation from us or from purchasers of the securities for whom they act as agents, in the form of discounts, concessions or commissions. Underwriters may sell the securities to or through dealers, and those dealers may receive compensation in the form of discounts, concessions or commissions from the underwriters or commissions from the purchasers for whom they may act as agents. Underwriters, dealers and agents that participate in the distribution of the securities, and any institutional investors or others that purchase securities directly for the purpose of resale or distribution, may be deemed to be underwriters, and any discounts or commissions received by them from us and any profit on the resale of the common stock by them may be deemed to be underwriting discounts and commissions under the Securities Act of 1933, as amended.

We may provide agents, underwriters and other purchasers with indemnification against particular civil liabilities, including liabilities under the Securities Act of 1933, as amended, or contribution with respect to payments that the agents, underwriters or other purchasers may make with respect to such liabilities. Agents and underwriters may engage in transactions with, or perform services for, us in the ordinary course of business.

To facilitate the public offering of a series of securities, persons participating in the offering may engage in transactions that stabilize, maintain, or otherwise affect the market price of the securities. This may include over-allotments or short sales of the securities, which involves the sale by persons participating in the offering of more securities than have been sold to them by us. In addition, those persons may stabilize or maintain the price of the securities by bidding for or purchasing securities in the open market or by imposing penalty bids, whereby selling concessions allowed to underwriters or dealers participating in any such offering may be reclaimed if securities sold by them are repurchased in connection with stabilization transactions. The effect of these transactions may be to stabilize or maintain the market price of the securities at a level above that which might otherwise prevail in the open market. Such transactions, if commenced, may be discontinued at any time. We make no representation or prediction as to the direction or magnitude of any effect that the transactions described above, if implemented, may have on the price of our securities.

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Unless otherwise specified in the applicable prospectus supplement, any common stock sold pursuant to a prospectus supplement will be eligible for listing on The Nasdaq Capital Market, subject to official notice of issuance. Any underwriters to whom securities are sold by us for public offering and sale may make a market in the securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice.

In order to comply with the securities laws of some states, if applicable, the securities offered pursuant to this prospectus will be sold in those states only through registered or licensed brokers or dealers. In addition, in some states securities may not be sold unless they have been registered or qualified for sale in the applicable state or an exemption from the registration or qualification requirement is available and complied with.

## LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by Haynes and Boone, LLP, New York, New York.

## EXPERTS

Our consolidated financial statements as of December 31, 2019 and 2018 and for the years then ended incorporated in this prospectus by reference to the Annual Report on Form 10-K have been audited by Liggett & Webb, P.A., an independent registered public accounting firm, as stated in its report appearing in the registration statement, and are so incorporated in reliance upon the report of such firm given upon its authority as experts in accounting and auditing.

## WHERE YOU CAN FIND MORE INFORMATION

We are subject to the informational requirements of the Exchange Act, and in accordance therewith file annual, quarterly and current reports, proxy statements and other information with the SEC. The SEC maintains an internet website at [www.sec.gov](http://www.sec.gov) that contains periodic and current reports, proxy and information statements and other information regarding registrants that are filed electronically with the SEC.

These documents are also available, free of charge, through the Investors section of our website, which is located at [www.biosig.com](http://www.biosig.com).

We have filed with the SEC a registration statement under the Securities Act of 1933, as amended, relating to the offering of these securities. The registration statement, including the attached exhibits, contains additional relevant information about us and the securities. This prospectus does not contain all of the information set forth in the registration statement. You can obtain a copy of the registration statement for free at [www.sec.gov](http://www.sec.gov). The registration statement and the documents referred to below under "Incorporation of Documents by Reference" are also available on our website, [www.biosig.com](http://www.biosig.com).

We have not incorporated by reference into this prospectus the information on our website, and you should not consider it to be a part of this prospectus.

## INCORPORATION OF DOCUMENTS BY REFERENCE

The SEC allows us to “incorporate by reference” the information we have filed 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 later information that we file with the SEC will automatically update and supersede this information. We specifically are incorporating by reference the following documents filed with the SEC (excluding those portions of any Current Report on Form 8-K that are furnished and not deemed “filed” pursuant to the General Instructions of Form 8-K):

- our Annual Report on Form 10-K for the year ended December 31, 2019, filed with the SEC on [March 13, 2020](#);
- the portions of our Definitive Proxy Statement on Schedule 14A filed with the SEC on [April 29, 2020](#) that are deemed “filed” with the SEC;
- our Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, filed with the SEC on [May 11, 2020](#), our Quarterly Report on Form 10-Q for the quarter ended June 30, 2020, filed with the SEC on [August 6, 2020](#), and as amended on [August 28, 2020](#), and our Quarterly Report on Form 10-Q for the quarter ended September 30, 2020, filed with the SEC on [November 5, 2020](#);
- our Current Reports on Form 8-K filed with the SEC on [January 17, 2020](#), [February 19, 2020](#), [February 24, 2020](#), [February 26, 2020](#), [March 5, 2020](#), [March 25, 2020](#), [April 13, 2020](#), [April 16, 2020](#), [April 16, 2020](#), [April 20, 2020](#), [April 22, 2020](#), [April 24, 2020](#), [May 1, 2020](#), [May 8, 2020](#), [May 15, 2020](#), [May 19, 2020](#), [May 22, 2020](#), [June 1, 2020](#), [June 1, 2020](#), [June 2, 2020](#), [June 3, 2020](#), [June 5, 2020](#), [June 26, 2020](#), [June 26, 2020](#), [June 30, 2020](#), [July 2, 2020](#), [July 8, 2020](#), [July 16, 2020](#), [July 16, 2020](#), [July 17, 2020](#), [July 20, 2020](#), [July 21, 2020](#), [July 27, 2020](#), [August 28, 2020](#), [September 3, 2020](#), and [November 3, 2020](#); and
- the description of the Company’s common stock and warrants contained in the Form 8-A filed with the SEC on [September 17, 2018](#), including any amendments thereto or reports filed for the purposes of updating this description.

All reports and definitive proxy or information statements subsequently filed after the date of this initial registration statement and prior to effectiveness of this registration statement by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act, but excluding information furnished to, rather than filed with, the SEC, shall be deemed to be incorporated by reference herein and to be a part hereof from the date such documents are filed.

Any statement contained herein or in any document incorporated or deemed to be incorporated by reference shall be deemed to be modified or superseded for purposes of the registration statement of which this prospectus forms a part to the extent that a statement contained in any other subsequently filed document which also is or is deemed to be incorporated by reference modifies or supersedes such statement. Any such statement so modified or superseded shall not be deemed to constitute a part of the registration statement of which this prospectus forms a part, except as so modified or superseded.

You should rely only on the information incorporated by reference or provided in this prospectus. We have not authorized anyone else to provide you with different information. You should not assume that the information in this prospectus is accurate as of any date other than the date of this prospectus or the date of the documents incorporated by reference in this prospectus.

We will provide without charge to each person to whom a copy of this prospectus is delivered, upon written or oral request, a copy of any or all of the information that has been incorporated by reference in this prospectus but not delivered with this prospectus (other than an exhibit to these filings, unless we have specifically incorporated that exhibit by reference in this prospectus). Any such request should be addressed to us at:

BioSig Technologies, Inc.  
Attn: Chief Executive Officer  
54 Wilton Road, 2nd Floor  
Westport, Connecticut 06880  
(203) 409-5444

You may also access the documents incorporated by reference in this prospectus through our website at [www.biosig.com](http://www.biosig.com). Except for the specific incorporated documents listed above, no information available on or through our website shall be deemed to be incorporated in this prospectus or the registration statement of which it forms a part.



**[ ] Shares of Common Stock**

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**PROSPECTUS SUPPLEMENT**

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*Sole Book-Running Manager*

**Laidlaw & Company (UK) Ltd.**

, 2022

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