Matinas BioPharma Commences Patient Dosing in NIH-Sponsored Phase 2a Study with Lead Anti-Infective Candidate MAT2203

– Phase 2a study of MAT2203 for the treatment of mucocutaneous candidiasis infections; Topline data expected in H1 2017

– Management to host conference call and webcast on October 6th at 4:30 p.m. ET to review clinical development strategy for MAT2203

BEDMINSTER, N.J., Sept. 28, 2016 (GLOBE NEWSWIRE) -- Matinas BioPharma Holdings, Inc. (OTCQB:MTNB), a clinical-stage biopharmaceutical company focused on identifying and developing safe and effective broad spectrum therapeutics for the treatment of serious and life-threatening infections, announced today that patient dosing has commenced in the National Institutes of Health (NIH) sponsored Phase 2a clinical study of lead anti-infective product candidate MAT2203 for the treatment of refractory mucocutaneous candidiasis infection. Matinas management will host a conference call and live webcast for investors, analysts and other interested parties to review its clinical development strategy for MAT2203, on October 6, 2016 at 4:30 p.m. ET (details below).

MAT2203 is Matinas BioPharma’s orally-administered, encochleated formulation of the broad spectrum fungicidal medication amphotericin B. The Company’s proprietary lipid-crystal nano-particle formulation of amphotericin B has a novel mechanism of absorption and distribution to infected tissues and has the potential to transform the way this potent fungicidal agent is administered and used in clinical practice.

“The start of patient dosing is a major step forward in our Phase 2a development program which will provide us with an increased understanding of the efficacy and safety of MAT2203 in patients and importantly, continued validation of our cochleate technology platform,” stated Roelof Rongen, Chief Executive Officer of Matinas Biopharma. “Based on the favorable results of the MAT2203 Phase 1 study and extensive preclinical data, we anticipate that this study will demonstrate the efficacy of MAT2203 with along with improved tolerability. We look forward to reporting topline results in the first half of 2017.”

The Phase 2a study is being conducted at the National Institutes of Health Clinical Center in Bethesda, MD, under the direction of Principal Investigator Alexandra Freeman, M.D., of the National Institute of Allergy and Infectious Diseases (NIAID) Laboratory of Clinical Infectious Diseases. The open-label, dose-titration study is designed to assess the
efficacy, safety, tolerability and pharmacokinetics of MAT2203 in predominantly hereditary immunodeficient patients with a recurrent or chronic mucocutaneous candidiasis infection (esophageal, oropharyngeal, vaginal) who are refractory or intolerant to standard non-intravenous therapies. The study will enroll up to 16 patients, and include 14-day dosing and evaluation periods. Depending on clinical response during each treatment period, investigators will have the ability to continue the effective dose for 28 total days or increase the dose of MAT2203 up to two times and extend treatment to a maximum of 56 days.

The U.S. Food and Drug Administration (FDA) has designated MAT2203 as a QIDP with Fast Track status for the treatment of invasive candidiasis, aspergillus and prophylaxis (prevention) of invasive fungal infections in patients on immunosuppressive therapy. MAT2203 is also being explored for treatment of additional infections including cryptococcal meningoencephalitis, and is being developed to be eligible for Orphan Drug Designations in various indications.

Conference Call and Webcast Information

Matinas will host a conference call for investors, analysts and other interested parties on Thursday, October 6, 2016 at 4:30 pm ET to provide an update and overview for the clinical development of MAT2203. Joining Matinas management on the call will be Peter G. Pappas, MD, FACP, William E. Dismukes Professor of Medicine in the Division of Infectious Diseases at the University of Alabama at Birmingham, President of the Mycoses Study Group Education and Research Consortium and a member of Matinas’ Scientific Advisory Board.

The conference call and live webcast will be accompanied by presentation slides. To participate in the call, please dial (877) 407-5976 (domestic) or (412) 902-0031 (international). The live webcast and accompanying slides will be accessible on the Investors Section of Matinas’ website, www.matinasbiopharma.com, and will be archived for 60 days.

About Mucocutaneous Candidiasis

Mucocutaneous candidiasis is a group of syndromes resulting in infections of the skin, nails and mucous membranes. These infections are caused by opportunistic candida yeast, the most common cause of fungal infections worldwide. There are more than 20 species of candida that can cause infection in humans, the most common of which is candida albicans. A variety of disorders including endocrine dysfunctions, hereditary immune-system disorders, alopecia, vitiligo, malabsorption syndromes, neoplasms and other infections may also occur in patients with chronic reoccurring mucocutaneous candidiasis. Current anti-fungal treatment management options are limited and relapse is common following discontinuation of certain therapies. In addition, the increasing resistance of certain strains to standard antifungal treatments is a growing concern.

About MAT2203

MAT2203 is an orally-administered, encochleated formulation of amphotericin B (a broad spectrum fungicidal agent). Little to no clinical resistance has been reported to date with
amphotericin B as compared to the rapidly emerging drug resistance seen in other antifungal therapies. Currently, IV-only administered amphotericin B is the only broad spectrum fungicidal available but its IV-delivery results in significant treatment-limiting side effects, including nephrotoxicity. The ability to provide amphotericin B via MAT2203's proprietary and novel oral formulation may offer a new and promising alternative for patients and doctors. In a clinical Phase 1a single-dose, double-blind, dose-escalating, pharmacokinetic study of 48 healthy volunteers, oral MAT2203 demonstrated a positive safety and tolerability profile with no serious adverse events reported, including little or no nephrotoxicity as compared to placebo. Enrollment is currently underway for the Phase 2a NIH/NIAID-funded clinical study with MAT2203 in patients with refractory mucocutaneous candidiasis. MAT2203 is also being explored for treatment of additional anti-fungal indications and may have the potential for Orphan Drug Designation in certain of these indications.

About Matinas BioPharma

Matinas BioPharma is a clinical-stage biopharmaceutical company focused on identifying and developing safe and effective broad spectrum therapeutics for the treatment of serious and life-threatening infections. The Company's proprietary, disruptive technology utilizes lipid-crystal nano-particle cochleates to nano-encapsulate existing drugs, making them safer, more tolerable, less toxic and orally bioavailable. The Company's lead drug candidate is MAT2203, an orally-administered, encochleated formulation of amphotericin B (a broad spectrum fungicidal agent). The Company has an open Investigational New Drug (IND) application for MAT2501, which is an orally-administered, encochleated formulation of amikacin (a broad spectrum aminoglycoside antibiotic agent) for acute bacterial infections, including non-tuberculcous mycobacterium (NTM) and multi-drug resistant gram negative bacterial infections.

The Company's lead anti-infective product candidates, MAT2203 and MAT2501, position Matinas BioPharma to become a leader in the safe and effective delivery of anti-infective therapies utilizing its proprietary lipid-crystal nano-particle cochleate formulation technology. For more information, please visit www.matinasbiopharma.com and connect with the Company on Twitter, LinkedIn, Facebook, and Google+.

Forward Looking Statements: This release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, including those relating to the Company's strategic focus and the future development of its product candidates, including MAT2203 and MAT2501, the anticipated timing of regulatory submissions, the anticipated timing of clinical studies, the Company's ability to identify and pursue development and partnership opportunities for its products or platform delivery technology on favorable terms, if at all, and the ability to obtain required regulatory approval and other statements that are predictive in nature, that depend upon or refer to future events or conditions. All statements other than statements of historical fact are statements that could be forward-looking statements. Forward-looking statements include words such as "expects," "anticipates," "intends," "plans," "could," "believes," "estimates" and similar expressions. These statements involve known and unknown risks, uncertainties and other factors which may cause actual results to be materially different from any future results expressed or implied by the forward-looking statements. Forward-
looking statements are subject to a number of risks and uncertainties, including, but not
limited to, our ability to obtain additional capital to meet our liquidity needs on acceptable
terms, or at all, including the additional capital which will be necessary to complete the
clinical trials of our product candidates; our ability to successfully complete research and
further development and commercialization of our product candidates; the uncertainties
inherent in clinical testing; the timing, cost and uncertainty of obtaining regulatory
approvals; our ability to maintain and derive benefit from the Qualified Infectious Disease
Product (QIDP), Orphan and/or Fast Track designations for MAT2203 and MAT2501,
which does not change the standards for regulatory approval or guarantee regulatory
approval on an expedited basis, or at all; our ability to protect the Company's intellectual
property; the loss of any executive officers or key personnel or consultants; competition;
changes in the regulatory landscape or the imposition of regulations that affect the
Company's products; and the other factors listed under "Risk Factors" in our filings with
the SEC, including Forms 10-K, 10-Q and 8-K. Investors are cautioned not to place undue
reliance on such forward-looking statements, which speak only as of the date of this
release. Except as may be required by law, the Company does not undertake any
obligation to release publicly any revisions to such forward-looking statements to reflect
events or circumstances after the date hereof or to reflect the occurrence of unanticipated
events. Matinas BioPharma's product candidates are all in a development stage and are
not available for sale or use.

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