April 19, 2018

Matinas BioPharma to Present Positive Preclinical Data of MAT2203 at the 28th European Congress of Clinical Microbiology and Infectious Disease

BEDMINSTER, N.J., April 19, 2018 (GLOBE NEWSWIRE) -- Matinas BioPharma Holdings, Inc. (NYSE AMER:MTNB), a clinical-stage biopharmaceutical company focused on developing innovative anti-infectives for orphan indications, today announced that it will present a poster at the 28th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), being held April 21-24, 2018, in Madrid, Spain. The Company's lead product candidate, MAT2203, is an orally-administered cochleate formulation of a broad spectrum anti-fungal drug called amphotericin B. Matinas is initially developing MAT2203 for the prevention of invasive fungal infections due to immunosuppressive therapy, particularly in patients with acute lymphoblastic leukemia.

Title: Efficacy of oral amphotericin B-cochleates for the prevention of invasive candidiasis caused by *Candida albicans* in mice
Presenting Author: David S. Perlin, Ph.D., Member of Matinas' Scientific Advisory Board, Executive Director of the Public Health Research Institute (PHRI) and the Rutgers Regional Biocontainment Laboratory (RBL) of New Jersey Medical School (NJMS), Rutgers Biomedical and Health Sciences, and Professor of Microbiology, Biochemistry and Molecular Genetics at NJMS
Date and Time: April 24, 2018 at 12:30 PM CET
Poster Presentation #: P2363
Session: *Recent findings in invasive candidiasis*

The ECCMID 2018 abstract is available online at the conference website. Following the event, the poster will be available on the Company's website in the Scientific Presentations section.

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 orally using our proprietary and novel oral formulation may offer a new and promising alternative for patients and doctors. The FDA has designated MAT2203 as a Qualified Infectious Disease Product

(QIDP) for the treatment of invasive candidiasis and the treatment of aspergillosis, as well as for the prevention of invasive fungal infections due to immunosuppressive therapy. 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 developing innovative anti-infectives for orphan indications. 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 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 anticipated capital and liquidity needs, strategic focus and the future development of its product candidates, including MAT2203, the anticipated timing of regulatory submissions, the anticipated timing of clinical studies, the anticipated timing of regulatory interactions, 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, 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.

Investor Contact
Jenene Thomas
Jenene Thomas Communications, LLC
Phone: +1 (833) 475-8247
Email: mtnb@jtcir.com

Media Contact
Eliza Schleifstein
Scient Public Relations
Phone: + 1 (917) 763-8106
Email: eliza@scientpr.com

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