

Tonix Pharmaceuticals to Participate in Event Titled, "Long COVID: What Will it Take to Accelerate Therapeutic Progress?"

Co-Hosted by the Biotechnology Innovation Organization (BIO) and Solve M.E., an Advocacy Group for Chronic Fatigue Syndrome/Myalgic Encephalomyelitis (CFS/ME)

CHATHAM, N.J., Feb. 16, 2023 (GLOBE NEWSWIRE) -- Tonix Pharmaceuticals Holding Corp. (Nasdaq: TNXP) (Tonix or the Company), a clinical-stage biopharmaceutical company, today announced that Seth Lederman, M.D., President and Chief Executive Officer of Tonix Pharmaceuticals, will present at a virtual event co-hosted by BIO and Solve M.E. titled, "Long COVID: What Will it Take to Accelerate Therapeutic Progress?", which is being held February 21, 2023 from 1:00 – 4:30 p.m. ET. Dr. Lederman will present during the session "Clinical Studies and Emerging Therapeutic Approaches", which begins at approximately 3:10 p.m. ET.

According to Solve M.E., the session will cover emerging research in Long COVID, as well as the existing body of data in other post-infection diseases like CFS/ME. The session will feature perspectives from a host of participants, including government, academic, and industry researchers, patient groups, funding sources, and policymakers.

Registration is open to the general public and is required in advance through the BIO website <u>found here</u>. The presentation will be available after the event, under the <u>Presentations</u> tab of the Tonix website at<u>www.tonixpharma.com</u>.

About Solve M.E.

Solve M.E. is a non-profit organization that serves as a catalyst for critical research into diagnostics, treatments, and cures for CFS/ME, Long COVID and other post-infection conditions.

About BIO

BIO is the world's largest advocacy association representing member companies, state biotechnology groups, academic and research institutions, and related organizations across the United States and in 30+ countries.

About Long COVID or Post-Acute Sequelae of SARS-CoV-2 (PASC)

Although most people recover from COVID-19 within weeks of the acute illness, a

substantial portion develop a chronic syndrome called Long COVID. These individuals experience a constellation of symptoms long past the time of recovery from acute COVID-19. Most Long COVID patients who have been studied appear to have cleared the SARS-CoV-2 virus from their systems. The symptoms of Long COVID can include fatigue, sleep disorders, pain, fevers, shortness of breath, cognitive impairment described as "brain fog" or memory disturbance, gastrointestinal symptoms, anxiety, and depression. Long COVID can persist for months and can range in severity from mild to incapacitating. Several cohort studies have reported that persistence of symptoms following SARS-CoV-2 infection occurs in more than 30% of patients. While typically associated with moderate or severe COVID-19, Long COVID can occur after mild COVID-19 or even after asymptomatic SARS-CoV-2 infection. Patients with Long COVID are sometimes referred to as "long-haulers". Long COVID is a chronic disabling condition that is expected to result in a significant global health and economic burden.² In response to the urgent need for therapies that address Long COVID, Congress awarded \$1.15 billion to the National Institutes of Health to study Long COVID last December.³ While the vaccines available in the U.S. under Emergency Use Authorization have been shown to prevent acute COVID, their ability to prevent Long COVID is unknown. There is currently no approved drug for the treatment of Long COVID.

Tonix Pharmaceuticals Holding Corp.*

Tonix is a clinical-stage biopharmaceutical company focused on discovering, licensing, acquiring and developing therapeutics to treat and prevent human disease and alleviate suffering. Tonix's portfolio is composed of central nervous system (CNS), rare disease, immunology and infectious disease product candidates. Tonix's CNS portfolio includes both small molecules and biologics to treat pain, neurologic, psychiatric and addiction conditions. Tonix's lead CNS candidate, TNX-102 SL (cyclobenzaprine HCl sublingual tablet), is in mid-Phase 3 development for the management of fibromyalgia with a new Phase 3 study launched in the second quarter of 2022 and interim data expected in the second quarter of 2023. TNX-102 SL is also being developed to treat Long COVID, a chronic post-acute COVID-19 condition. Tonix initiated a Phase 2 study in Long COVID in the third guarter of 2022. TNX-1300 (cocaine esterase) is a biologic designed to treat cocaine intoxication and has been granted Breakthrough Therapy designation by the FDA. A Phase 2 study of TNX-1300 is expected to be initiated in the second quarter of 2023. TNX-1900 (intranasal potentiated oxytocin), a small molecule in development for chronic migraine, is being studied in a potential pivotal Phase 2 study that initiated enrollment in the first guarter of 2023 and for which interim data is expected in the fourth guarter of 2023. TNX-601 ER (tianeptine hemioxalate extended-release tablets) is a once-daily formulation of tianeptine being developed as a potential treatment for major depressive disorder (MDD) with a Phase 2 study expected to be initiated in the first quarter of 2023. Tonix's rare disease portfolio includes TNX-2900 (intranasal potentiated oxytocin) for the treatment of Prader-Willi syndrome. TNX-2900 has been granted Orphan Drug designation by the FDA. Tonix's immunology portfolio includes biologics to address organ transplant rejection, autoimmunity and cancer, including TNX-1500, which is a humanized monoclonal antibody targeting CD40-ligand (CD40L or CD154) being developed for the prevention of allograft and xenograft rejection and for the treatment of autoimmune diseases. A Phase 1 study of TNX-1500 is expected to be initiated in the second quarter of 2023. Tonix's infectious disease pipeline includes a vaccine in development to prevent smallpox and monkeypox, TNX-801; a next-generation vaccine to prevent COVID-19, TNX-1850; a platform to make fully human

monoclonal antibodies to treat COVID-19, TNX-3600; and humanized anti-SARS-CoV-2 monoclonal antibodies, TNX-3800; and a class of broad-spectrum small molecule oral antivirals, TNX-3900. TNX-801, Tonix's vaccine in development to prevent smallpox and monkeypox, also serves as the live virus vaccine platform or recombinant pox vaccine (RPV) platform for other infectious diseases. A Phase 1 study of TNX-801 is expected to be initiated in the second half of 2023.

This press release and further information about Tonix can be found at www.tonixpharma.com.

Forward Looking Statements

Certain statements in this press release are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. These statements may be identified by the use of forward-looking words such as "anticipate," "believe," "forecast," "estimate," "expect," and "intend," among others. These forward-looking statements are based on Tonix's current expectations and actual results could differ materially. There are a number of factors that could cause actual events to differ materially from those indicated by such forward-looking statements. These factors include, but are not limited to, risks related to the failure to obtain FDA clearances or approvals and noncompliance with FDA regulations; delays and uncertainties caused by the global COVID-19 pandemic; risks related to the timing and progress of clinical development of our product candidates; our need for additional financing; uncertainties of patent protection and litigation; uncertainties of government or third party payor reimbursement; limited research and development efforts and dependence upon third parties; and substantial competition. As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. Tonix does not undertake an obligation to update or revise any forward-looking statement. Investors should read the risk factors set forth in the Annual Report on Form 10-K for the year ended December 31, 2021, as filed with the Securities and Exchange Commission (the "SEC") on March 14, 2022, and periodic reports filed with the SEC on or after the date thereof. All of Tonix's forward-looking statements are expressly qualified by all such risk factors and other cautionary statements. The information set forth herein speaks only as of the date thereof.

Contacts

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^{*}All of Tonix's product candidates are investigational new drugs or biologics and have not been approved for any indication.

¹Nalbandian, Ani, et al. "Post-acute COVID-19 syndrome." Nature Medicine (2021): 1-15.

²Briggs, Andrew, and Anna Vassall. "Count the cost of disability caused by COVID-19." (2021): 502-505.

³The NIH provision of Title III Health and Human Services, Division M--Coronavirus Response and Relief Supplemental Appropriations Act, 2021, of H.R. 133, The Consolidated Appropriations Act of 2021. The bill was enacted into law on 27 December 2020, becoming Public Law 116-260.

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