

Issuer Free Writing Prospectus Filed Pursuant to Rule 433 Registration No. 333-235976

1



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Cautionary Note on Forward-Looking Statements

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Certain statements in this presentation regarding strategic plans, expectations and objectives for future operations or results are "forward-looking statements" as defined by 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" 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 failure to obtain U.S. Food and Drug Administration clearances or approvals and noncompliance with its regulations; our need for additional financing; substantial competition; uncertainties of patent protection and litigation; uncertainties of government or third party payor reimbursement; limited research and development efforts and dependence upon third parties. As with any pharmaceutical under development, there are significant risks in the development, regulatory approval and commercialization of new products. The forward-looking statements in this presentation are made as of the date of this presentation, even if subsequently made available by Tonix on its website or otherwise. Tonix does not undertake an obligation to update or revise any forward-looking statement, except as required by law. Investors should read the risk factors set forth in the Annual Report on Form 10-K for the year ended December 31, 2018, as filed with the Securities and Exchange Commission (the "SEC") on March 18, 2019, and periodic reports and current reports filed with the SEC on or after the date thereof. All of Tonix's forwardlooking statements are expressly qualified by all such risk factors and other cautionary statements.





This presentation highlights basic information about us and the offering to which this communication relates. Because it is a summary, it does not contain all of the information that you should consider before investing in our securities.

We have filed a registration statement (including a prospectus, which currently is in preliminary form) with the U.S. Securities and Exchange Commission ("SEC") for the offering to which this presentation relates. The registration has not yet become effective. Before you invest, you should read the preliminary registration statement (including the risk factors described therein) and other documents we have filed with the SEC for more complete information about us and this offering. You may access these documents for free by visiting EDGAR on the SEC Web site at www.sec.gov.

The preliminary prospectus, dated January 21, 2020, is available on the SEC Web site at www.sec.gov/Archives/edgar/data/.

Alternatively, we or any underwriter participating in the offering will arrange to send you the preliminary prospectus and, when available, the final prospectus and/or any supplements thereto if you contact A.G.P./Alliance Global Partners, 590 Madison Avenue, 36th Floor, New York, NY 10022 or via telephone at 212-624-2006 or email: presentation@allianceg.com.

This presentation shall not constitute an offer to sell, or the solicitation of an offer to buy, nor will there be any sale of these securities in any state or other jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of such state or jurisdiction. The offering will only be made by means of a prospectus pursuant to a registration statement that is filed with the SEC after such registration statement becomes effective.





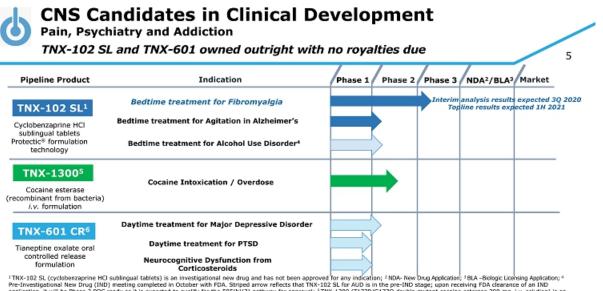
In Phase 3 clinical development of TNX-102 SL¹ for Fibromyalgia

Chronic pain condition

Fibromyalgia milestones (Phase 3 RELIEF study):

- 2nd Half 2020 Interim analysis results expected
 1st Half 2021 Topline data expected

¹ TNX-102 SL (cyclobenzaprine HCl sublingual tablets) is an investigational new drug and has not been approved for any indication © 2020 Tonix Pharmaceuticals Holding Corp.



¹TNX-102 SL (cyclobenzaprine HCI sublingual tablets) is an investigational new drug and has not been approved for any indication; ² NDA- New Drug Application; ³ BLA -Biologic Licensing Application; ⁴ Pre-Investigational New Drug (IND) meeting completed in October with FDA. Striped arrow reflects that TNX-102 SL for AUD is in the pre-IND stage; upon receiving FDA clearance of an IND application; it will be Phase 2 POC ready as it is expected to qualify for the 505(b)(2) pathway for approval; ⁵TNX-1300 (T127k/S173Q double-mutant cocaine esterase 200 mg, i.v. solution) is an investigational new biologic and has not been approved for any indication; ⁹ Striped arrows reflect that TNX-601 CR is in the pre-IND stage in the U.S.; a Phase 1 study for formulation development was recently completed autside of the U.S.



Preclinical Pipeline ¹		
Pipeline Product	Indication(s)	Category
TNX-1600 Triple reuptake inhibitor ²	Daytime treatment for PTSD	Psychiatry
TNX-1500 ³ Anti-CD154 monoclonal antibody	Prevention and treatment of organ transplant rejection Treatment of autoimmune conditions	Transplant Autoimmunity
TNX-1700	Treatment for gastric and pancreatic cancers	Oncology
TNX-801 ³ Live horsepox virus (HPXV) vaccine from	Smallpox and monkeypox preventing vaccine cell culture	Biodefense
TNX-1200 ³ Live vaccinia virus (VACV) vaccine from o	Smallpox and monkeypox preventing vaccine cell culture	Biodefense
TNX-701 ³ Radioprotection drug oral capsules	Protection from radiation injury	Biodefense

¹
Experimental new medicines and biologics, not approved for any indication
²(25,4R,5R)-5-(((2-aminobenzo[d]thiazol-6-yl)methyl)amino)-2-(bis(4-fluorophenyl)methyl)tetrahydro-2H-pyran-4-ol) is an inhibitor of reuptake of three monoamine
neurotransmitters (serotonin, norepinephrine and dopamine)
³ Programs owned outright with no royables due
⁴ Recombinant Trefoil Family Factor 2
⁶ 2020 Tonix Pharmaceuticals Holding Corp.



TNX-102 SL

- · Novel sublingual formulation of cyclobenzaprine HCl¹ designed for long-term daily use at bedtime
- · Rapid absorption
- · Transmucosal absorption bypasses first pass liver metabolism
- Dynamic pharmacokinetic profile with increase in cyclobenzaprine concentration during sleep induction and decrease leading up to awakening

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Cyclobenzaprine is the active ingredient of oral (swallowed) muscle relaxants, Flexeril® and Amrix ®

TNX-102 SL is believed to treat fibromyalgia by improving sleep *quality*, in contrast to sleep *quantity*

- Quality involves restorative properties of sleep
- · Quantity is time spent asleep
- TNX-102 SL targets clinical conditions for which improved sleep quality may have a therapeutic benefit
- · Reduction in disease-specific symptoms with sleep improvement as a secondary endpoint

¹Cyclobenzaprine is the active ingredient of oral (swallowed) muscle relaxants, Flexeril® and Amrix®

Composition of matter (eutectic): protection expected to 2034/2035

8

10 patents issued worldwide; 35 patent applications pending

Composition of matter (sublingual): protection expected to 2033

6 patents issued worldwide; 21 patent applications pending





Fibromyalgia is considered a neurobiological disorder characterized by¹: chronic widespread pain, non-restorative sleep, fatigue, diminished cognition

Believed to result from inappropriate pain signaling in central nervous system in the absence of peripheral injury¹

An estimated 6-12 million adults in the U.S. have fibromyalgia²

Causes significant impairment in all areas of life³

- · Lower levels of health-related quality of life reduced daily functioning
- · Interference with work (loss of productivity, disability)

Fewer than half of those treated for fibromyalgia receive complete relief from the three FDAapproved drugs⁴

Inflicts substantial strain on the healthcare system

- Average patient has 20 physician office visits per year⁵
- Annual direct medical costs are twice those of non-fibromyalgia individuals⁶

¹ Phillips K & Clauw DJ, Best Pract Res Clin Rheumatol 2011;25:141.
² American Chronic Pain Association (www.thesqba.org. 2019)
³ Schaefer et al., Pain Pract, 2015.
³ Chaefer et al., Pain Pract, 2015.
⁴ The three drugs with FDA approval for the treatment of fibromyalgia:
Progabalin (Lyrica): Duloxetine (Cymbalta); Milnacipran (Savella)
Problement et al, Pain Medicine 2013;14:1400.
⁴ Schaefer et al., Pain Pract, 2015.
⁵ 2020 Tonix Pharmaceuticals Holding Corp.
⁴ White et al, J Occupational Environ Med 2009;50:13.



Large Need for New Fibromyalgia Therapies that Provide Broad Symptom Improvement with Better Tolerability



Currently-approved medications may have side effects that limit long-term use¹

High rates of discontinuation, switching and augmentation

- · Attempts to treat multiple symptoms and/or avoid intolerable side effects
- Average of 2-3 medications used simultaneously²
- Typical patient has tried six different medications³
- · Medication-related side effects may be similar to fibromyalgia symptoms

Substantial off-label use of narcotic painkillers and prescription sleep aids³

 Among those diagnosed, more than one-third have used prescription opioids as a means of treatment⁴

TNX-102 SL is a non-opioid, centrally-acting analgesic that could provide a new therapeutic option for fibromyalgia patients

¹ Nuesch et al, Ann Rheum Dis 2013;72:955-62. ² Robinson RL et al, Pain Medicine 2012;13:1366. ³ Patient Trends: Fibromyalgia", Decision Resources, 2011. ³ Berger A, Dukes E, Martin S, Edelsberg J, Oster G, Int J Clin Pract, 2007; 61(9):1498–1508. © 2020 Tonix Pharmaceuticals Holding Corp.







folkswagen Check Engine [Photograph]. (2011, October 14). Wikipedia

Believed to result from inappropriate pain signaling in central nervous system

Absence of peripheral injury¹

Pain is a sensor system in the brain

 When the system malfunctions, the pain alarm is turned on even through there has been no peripheral nerve tissue injury

Improving sleep quality is believed to reduce pain and fatigue in FM

Suggesting sleep dysfunction is pathogenic in FM

TNX-102 SL acts as a non-opioid, centrally-acting analgesic to aid in the management of fibromyalgia

¹ Phillips K & Clauw DJ, Best Pract Res Clin Rheumatol 2011;25:141.

Phase 3 F301/AFFIRM¹ Study Results of TNX-102 SL 2.8 mg in Fibromyalgia



General study characteristics: Efficacy analyses: Randomized, double-blind, placebo-controlled trial in Primary endpoint (30% responder analysis), p=0.095 fibromyalgia at 35 U.S. sites (N=519) · Key Secondary Endpoint: mean pain improvement after 12 Primary endpoint: Mean Pain weeks of treatment) (MMRM statistical method), p< 0.001 Mean change from baseline at Week 12 (TNX-102 SL 2.8 mg Significant improvements in other secondary endpoints measuring sleep quality and sleep disturbances, fatigue, patient global impression of change, global physical health, . vs. placebo) and fibromyalgia symptom and function domains TNX-102 SL at bedtime once-daily Good tolerability with most common adverse events generally . mild and transient events related to the sublingual administration of the drug Placebo at bedtime once-daily N= 257 -12 weeks 12-week open-label extension ŀ ³ClinicalTrials.gov Identifier NCT02436096 © 2020 Tonix Pharmaceuticals Holding Corp.



Phase 3 AFFIRM (F301) Study Results: Mean Pain Analyzed by Mixed Model Repeated Measures (MMRM), with and without Multiple Imputation (MI)

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Pre-specified secondary analysis of AFFIRM:

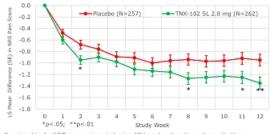
- Mean Pain Analysis, MMRM
- TNX-102 SL N=262; Placebo N=257
- Difference in Least Square Mean (SE): -0.6 (0.15); 95% CI (-0.8, -0.3); p<0.001

Retrospective analysis of AFFIRM: Mean Pain Analysis, MMRM with MI*

- TNX-102 SL N=262; Placebo N=257
- Difference in Least Square Mean (SE): -0.4 (0.14); 95% CI (-0.7, -0.1); p=0.005
- - Tonix intends to use MMRM with MI for analyzing the primary endpoint for the new RELIEF (F304) study, in line with current FDA statistical guidance on handling of missing data

Change in Pain Scores Over 12 Weeks: MMRM with MI





"As will be the case for the RELIEF F304 primary analysis, all discontinuations due to Adverse Event and Lack of Efficacy are imputed using MI based on baseline values; all other discontinuations assumed to be Missing at Random and are imputed with MI using weekly data of subjects.

TNX-102 SL for Fibromyalgia New Phase 3 Study: Higher (2x) Dose, New Primary Endpoint

Clear guidance from FDA to advance fibromyalgia program using higher dose (5.6 mg)

Long-term safety of 5.6 mg dose collected in PTSD studies expected to support fibromyalgia NDA

Retrospective analysis of mean pain improvement after 12 weeks of treatment showed statistically significant improvement using both statistical methods: MMRM (p < 0.001) and MMRM with MI (p < 0.01)

MMRM with MI to be used going forward

First patient enrolled in the new Phase 3 RELIEF study in December 2019



TNX-102 SL 5.6 mg for Fibromyalgia: New Phase 3 F304/RELIEF¹ Study Enrolling



Primary endpoint (Week 14): General study characteristics: Daily diary pain severity score change (TNX-102 SL 5.6 mg vs. placebo) from baseline in the weekly average as measured by the numerical rating scale . Randomized, double-blind, placebo-controlled study in . fibromyalgia in approximately 40 U.S. sites (N=470) (NRS), using mixed model repeated measures analysis with multiple imputation (MMRM with MI) Adaptive Design: one planned unblinded interim analysis based on 50% of randomized participants Key Secondary endpoints (Week 14) include: Patient Global Impression of Change (PGIC): Proportion of patients with a rating of "very much improved" or "much improved" . TNX-102 SL once-daily at bedtime Fibromyalgia Impact Questionnaire - Revised (FIQR): Symptoms Domain Interim analysis results expected 2H 2020 Topline results expected 1H 2021 based on currently-Placebo once-daily at bedtime planned sample size Potential pivotal efficacy study to support NDA approval – 14 weeks -

 $^3\text{CinicalTrials.gov}$ Identifier: NCT04172831 ^2Two week run in at 2.8 mg dose at bedtime, followed by 12 weeks at 5.6 mg dose



Common Adverse Events (AEs) Related to TNX-102 SL in prior Posttraumatic Stress Disorder (PTSD) Studies

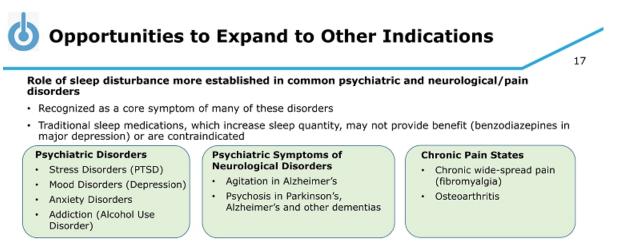
P201 P301 Placebo TNX 2.8 mg TNX 5.6 mg Category of Adverse Reaction Placebo TNX 5.6 mg (N=93) (N=134) (N=134) Preferred Term (N=94) (N=50) Systemic Adverse Events** 15.7% 6.4% 16.0% 9.0% Somnolence 11.8% Dry mouth 16.0% 10.6% 4.3% Headache 4.3% 5.4% 12.0% Insomnia 8.5% 7.5% 6.0% Sedation 1.1% 2.2% 12.0% Local Administration Site Reactions*[#] Hypoaesthesia oral 2.1% 38.7% 36.0% 37.3% 1.5% Paraesthesia oral 3.2% 16.1% 4.0% 0.7% 9.7% Glossodynia 1.1% 3.2% 6.0% 3.0% 11.9% Product Taste Abnormal

*only adverse events (AEs) are listed that are at a rate of ≥ 5% in any TNX-treated group *no values in a row for either study means the AE in the active group(s) in that study was at a rate of <5%

No serious and unexpected AEs related to TNX-102 SL

- Systemic AEs comparable between studies and also consistent with those described in approved oral cyclobenzaprine product labeling
- Severity and incidence of oral hypoesthesia (oral numbness) are not dose related and similar in both studies
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Growing recognition that there are many disorders where sleep disturbances may have a role in the pathophysiology (cardiovascular, metabolic, neurologic)

· Sleep quality plays a homeostatic role in several disorders



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Agitation is one of the most distressing and debilitating of the behavioral complications of Alzheimer's disease

Includes emotional lability, restlessness, irritability and aggression¹

Link between disturbed sleep and agitation in Alzheimer's¹⁻³

· Agitation is commonly diurnal (e.g., "sundowning")

Prevalence

· Agitation is likely to affect more than half of the 5.3 million Americans who currently suffer from moderate to severe Alzheimer's disease; expected to nearly triple by 20504

Significant unmet need with no FDA approved drugs for the treatment of AAD

Proposed Phase 2 study can potentially serve as a pivotal efficacy study to support NDA approval⁵

Rose, K. et al. (2015). American Journal of Alzhaimer's Disease & Other Dementias, 30:78 "Shih, Y. H., et al. (2017). Journal of the American Medical Directors Association, 16, 396. "Canevail, M., et al. (2016). Frontiers in medicine, 3. "The Alpheimer's Association, 2017 Albheimer's Disease Facts and Figures: <u>https://www.als.org/facts/</u> "Tho Alpheimer's Association, 2017 Albheimer's Disease Facts and Figures: <u>https://www.als.org/facts/</u> "FDA comments on final protocol reactived Distorter 2018] © 2020 Tonix: © 2020 Tonix Pharmaceuticals Holding Corp.



TNX-102 SL: Potential Treatment for Alcohol Use **Disorder (AUD)**

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AUD is a chronic relapsing brain disease

· Characterized by compulsive alcohol use, loss of control over alcohol intake, and a negative emotional state when not using

Sleep disturbance is extremely common in alcohol recovery¹

 Significantly impacts daytime cognition, mood, and ability to participate in alcohol treatment, and is associated with increased risk of relapse

Prevalence

An estimated 36 million adults in the U.S. have AUD²

Three FDA-approved medications

· Remains an unmet need due to compliance and safety issues

Pre-IND meeting with the FDA completed in October 2019

- Discussed 505(b)(2) development plan for TNX-102 SL as a treatment for AUD
- FDA official meeting minutes confirmed plan to submit IND application in 1Q 2020 for a Phase 2 Proof of Concept Study

¹Armedt et al, J Addict Dis. 2007 ; 26(4): 41–54 ²Grant et al, JAMA Psychiatry 2015; 72(8): 757-766; www.census.gov © 2020 Tonix Pharmaceuticals Holding Corp.

TNX-1300* for the Treatment of Cocaine Intoxication



Recombinant protein that degrades cocaine in the bloodstream¹

- Double-mutant cocaine esterase (CocE)
- CocE was identified in bacteria (Rhodococcus) that use cocaine as its sole source of carbon and nitrogen and that grow in soil surrounding coca plants²
- CocE catalyzes the breakdown of cocaine into metabolites ecgonine methyl ester and benzoic acid

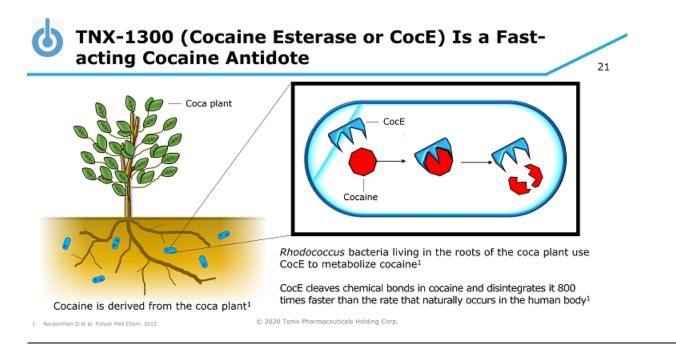
Phase 2 study completed by Rickett Benckiser (TNX-1300 was formerly RBP-8000)³

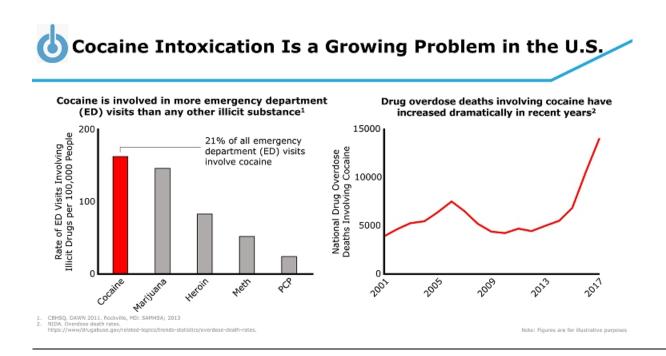
- Volunteer cocaine abusers received cocaine 50 mg i.v. infusion over 10 minutes
- TNX-1300 given one minute after completion of cocaine infusion
 - Rapidly reversed the physiologic effects of cocaine; cocaine plasma exposures dropped by 90% within two minutes
 - Well tolerated with the most frequently reported adverse events being gastrointestinal disorders (including dry mouth, nausea); nervous systems disorders (including headache, dizziness) and skin and subcutaneous tissue disorders (including hyperhidrosis, dermatitis)

*TNX-1300 (T172R/G173Q double-mutant cocaine esterase 200 mg, i.v. solution) is an investigational new biologic and has not been approved for any indication.

Gao D et al, Mol Pharmacol. 2009. 75(2):318-23.
 ² Bresler MM et al, Appl Environ Microbiol. 2000. 66(3):904-8.
 ³ Nasser AF et al, J Addict Dis. 2014;33(4):289-302.

J Addict Dis, 2014;33(4):289-302. © 2020 Tonix Pharmaceuticals Holding Corp.





TNX-601 CR* (Tianeptine Oxalate Controlled Release) Tablets



Proprietary new controlled release formulation for once-daily dosing

- Suitability for once-daily dosing established in Phase 1 pharmacokinetic study, completed outside of the U.S.
 Well tolerated in study and side effects were consistent with the known safety profile of tianeptine sodium
- Tianeptine sodium immediate release is approved and marketed outside of the U.S. for three times a day
 dosing for the treatment of depression
 - Once-daily dosing for TNX-601 CR believed to have an adherence advantage over three times a day
 dosing with tianeptine sodium
- Plan to request pre-IND meeting with FDA in first half 2020
- Plan for Phase 2 study in depression, ex-U.S., in second half 2020
- Proprietary new oxalate salt with improved pharmaceutical properties
- · Tianeptine oxalate is crystalline, while tianeptine sodium is amorphous
- Issued patents directed to tianeptine and tianeptine oxalate
- · Composition of Matter: Issued US patent directed to oxalate salt, U.S. Patent No. 10,449,203
- Method of Use: Issued U.S. and European patents directed to methods of treating cognitive impairment
 associated with corticosteroid treatment (U.S. Patent No. 9,314,469; European Patent No. 3246031)

*TNX-601 (tianeptine oxalate CR tablets) is in the pre-IND stage in the U.S. and has not been approved for any indication. © 2020 Tonix Pharmaceuticals Holding Corp.

TNX-601 CR: A Potential Daytime Treatment for Depression and PTSD



Depression: majority suffering from depression do not have an adequate response to initial antidepressant therapy

- Tianeptine sodium immediate release (IR) tablets for three times a day dosing is approved as an antidepressant in the EU, Russia, Asia and Latin America; first marketed for depression in France in 1989
- Tianeptine sodium is reported to have prominent anti-anxiety effects in depression with a low incidence of sexual side effects
- TNX-601 CR leverages the established efficacy and safety of tianeptine sodium IR as a treatment for depression outside of the U.S.
- Despite multiple approved products for depression in the U.S., there remains significant interest and need for new treatments, particularly for medicines that modulate the glutamatergic system

PTSD: heterogeneous condition, so not all patients are expected to respond to a single medicine

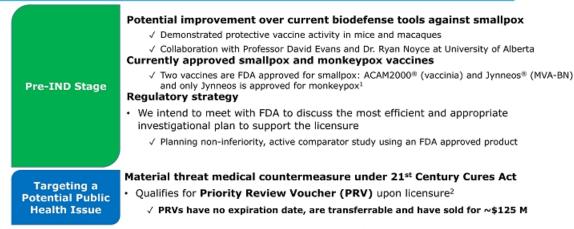
- TNX-601 CR modulates the glutamatergic system
- Published studies show tianeptine is active in the treatment of PTSD¹⁻⁴
- · Leverages Tonix expertise in PTSD (clinical and regulatory, market analysis, etc.)

¹ Frančišković T, et al. Psychiatr Danub. 2011 Sep;23(3):257-63. PMID: 21963693
 ² Rumyantseva GM and, Stepanov AL. Neurosci Behav Physial. 2008 Jan;38(1):55-61. PMID: 18097761
 ³ Aleksandrovskii RA, et al. Zn Nevrol Psikhiatr Im S S Korsakova. 2005;105(11):24-9. PMID: 16329631 [Russian]
 ⁴ Onder E, et al. Eur Psychiatry. 2006 (3):174-9. PMID: 15964747
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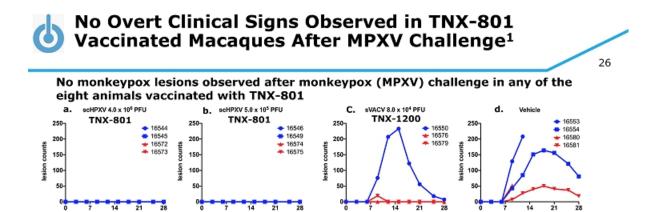


TNX-801 (Synthesized Live Horsepox Virus): A Potential Smallpox and Monkeypox Preventing Vaccine





¹ACAM2000 is a registered trademark of Emergent BioSolutions and Jynneos is a registered trademark of Bavarian Nordic ²BLA/NDA priority 6-month review is expected. © 2020 Tonix Pharmaceuticals Holding Corp.



Day

MPXV challenge

Days post

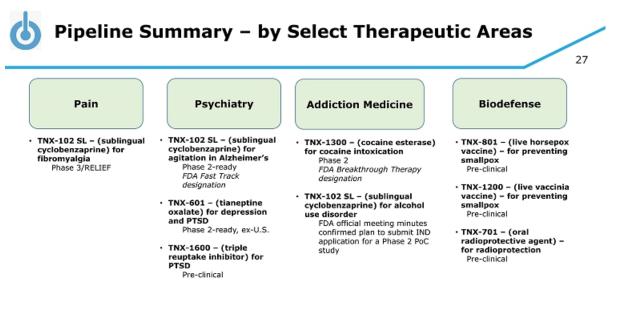
et MPXV challeng

Legend: Cynomolgus macave (a per group), were vaccinated via scarification using a bifurcated needle. Two different doses of TNX-801 (scHPXV) vaccine were tested (panel a and b); one dose of TNX-1200 (sVACV)(panel c); or vehicle (panel d). After monkeypox (MPXV) challenge, no lesions were seen in any of the 8 animals vaccinated with TNX-801 (panel a and b). One animal in the TNX-1200 arm died from unrelated causes, and two of three remaining animals showed lesions by Day 69 (panel c). All flour vehicle vaccinated animals developed lesions (panel d). Allfor whice mice monkeypox infections were seen in all 4 vehicle-vaccinated animals (panel d) by Day 69, but TNX-801 and TNX-1200 vaccinated animals were protected. In Panels a-d, blue symbols are male animals and red are female. Methods: 4 of 4 animals in the 4x10⁶ PFU dose, and 3 of 4 animals in the 5x10⁶ PFU dose groups exhibited a "take" at Day 7 after a single vaccination. A take is a biomarker of protective immunity. In the TNX-1200 (sVACV) are nolly 1 of 4 animals exhibited a take after a single vaccination. The animals thid in ot present a take were revaccinated with 5x10⁶ PFU dose. TNX-801 and TNX-1200 animals were protected with 5x10⁶ PFU dose groups exhibited a Take" at Day 7 after a single vaccination. A take is a biomarker of protective immunity. In the TNX-1200 (sVACV) are nolly 1 of 4 animals exhibited a take after a single vaccination. The animals thid in ot present a take were revaccinated on Day 14: the one TNX-801 animal was revaccinated with 5x10⁶ PFU MX-801 and TNX-1200 animals were protected with 2x4CV⁶ PFU TXX-801 animals were revaccinated with 2x4CV⁶ PFU TXX-801 animals and the 3TXX-1200 animals were protected with 2x4CV⁶ PFU TXX-801 animals were revaccinated with 2x4X10⁶ PFU TXX-801 animals were protected with 2x4X10⁶ PFU TXX-801 animals were protected with 2x4X10⁶ PFU TXX-801 animals were protected at take after a single vaccination. The animals the single vaccination and the animals were protected with 2x4X10⁶ PFU 1200. All but one of the TNX-1200 animals subsequently produced a take. Tolerability was comparable for TNX-801 and TNX-1200.

Days post MPXV challenge

Days post MPXV challenge

¹Noyce, RS, et al. Synthetic Chimeric Horsepox Virus (scHPXV) Vaccination Protects Macaques from Monkeypox* Presented as a poster at the American Society of Microbiology BioThreats Conference - January 29, 2020, Arlington, VA. (https://content.equisolve.net/tonixpharma/media/10929ac27/4fb5/5204f5cf41d59a121.pdf) © 2020 Tonix Pharmaceuticals Holding Corp.



Milestones – Recently Completed and Upcoming

-		

🗆 1 st Half 2021	Topline data from Phase 3 F304/RELIEF study in fibromyalgia expected
2 nd Half 2020	Expect to initiate Phase 2 study of TNX-601 CR in depression, ex-U.S.
3 rd Quarter 2020	Interim analysis results from Phase 3 F304/RELIEF study in fibromyalgia expected
🗆 1 st Quarter 2020	Expect to submit IND application to support Phase 2 POC study in AUD
🗹 February, 2020	Interim analysis results reported from Phase 3 P302/RECOVERY study in PTSD
🗹 4 th Quarter 2019	Enrolled first patient in Phase 3 F304/RELIEF study for management of fibromyalgia
🖬 4 th Quarter 2019	Confirmed once-daily dosing for TNX-601 CR in PK study
🗹 October 2019	Met with FDA to discuss Phase 2 study for TNX-102 SL to treat AUD
october 2019	Completed long-term exposure studies in PTSD to evaluate tolerability of TNX-102 SL 5.6 mg
🗹 May 2019	In-licensed TNX-1300, in Phase 2 development for cocaine intoxication

nagement Team	
Seth Lederman, MD President & CEO	TARGENT Fusiley vela:
Gregory Sullivan, MD Chief Medical Officer	COLUMBLA UNIVERSITY Department of Psychiatry Psychiatric Institute
Bradley Saenger, CPA Chief Financial Officer	Shire vertex search pwc
Jessica Morris Chief Operating Officer	Deutsche Bank Z Svb American Gental



Financial Overview

NASDAQ: TNXP		
Cash and cash equivalents, September 30, 2019	\$10.0 million	
Net proceeds from equity offering in 4Q2019	\$8.1 million	
Common stock outstanding as of January 13, 2020	8.5 million shares	

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