



## **Transneural Therapeutics Emerges from Stealth to Transform the Treatment of Neuropsychiatric Diseases with Novel Neuroplastogens**

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*Robust preclinical pipeline of non-hallucinogenic neuroplastogens designed as potential best-in-class treatments for neuropsychiatric and neurodegenerative disease.*

*Lead candidate, TN-001, is a dual 5-HT<sub>2A</sub> partial agonist/5-HT<sub>2B</sub> antagonist with tailored receptor engagement, promoting rapid, antidepressant-associated neuroplasticity without risk of hallucinations.*

*TN-001 is designed on a novel, AI-engineered chemical scaffold unlike any published psychedelic agent and is in development for the indications of major depressive disorder (MDD) and post-traumatic stress disorder (PTSD).*

**SEATTLE, April 22, 2025 /PRNewswire-PRWeb/ -- [Transneural Therapeutics, Inc.](#)**

(Transneural), a preclinical-stage biotechnology company aiming to transform the treatment of neuropsychiatric and neurodegenerative diseases with novel neuroplastogens, announced its launch today. Transneural was founded to address the high unmet need for efficacious treatments for neuropsychiatric and neurodegenerative diseases, and the company recognized the potential of 5-HT<sub>2A</sub> agonism to treat these conditions. Advances in artificial intelligence (AI) and the scientific understanding of enabling technologies in GPCR neurobiology have accelerated the design of molecules with potential to precisely treat complex neurological diseases. Transneural aims to realize that potential by leveraging extensive neuropsychiatry-specific pharmaceutical development expertise to make molecules into medicines.

[Transneural's pipeline](#) focuses on assets engineered to have tailored receptor engagement at serotonergic targets with recognized therapeutic effect in neuropsychiatric disorders. This approach enables development of commercially-viable best-in-class treatments engineered for better safety and simplicity of administration than psychedelics while still delivering improved efficacy over current standard of care neuropsychiatric treatments.

The company's lead asset, TN-001, is a dual 5-HT<sub>2A</sub> partial agonist/5-HT<sub>2B</sub> antagonist with serotonergic receptor engagement tailored to deliver rapid and enduring antidepressant efficacy rivaling psychedelic treatment, but without the risk of hallucinations or dissociative adverse effects. TN-001 is currently in preclinical development for major depressive disorder (MDD) and post-traumatic stress disorder (PTSD).

"There remains a high level of unmet need for patients suffering from depression and PTSD," said Charmaine Lykins, Chief Executive Officer (CEO) of Transneural Therapeutics. "About 30% to 50% of depressed patients inadequately respond to available treatments and 33% of those with PTSD are treatment resistant. Treatment options for these patients are burdened with safety issues and intolerable side effects. We have pulled together a team of scientific and strategic experts in neuropsychiatry to take on the challenge of transforming outcomes for patients and families. I am encouraged by the potential of our lead asset, TN-001, and look forward to wrapping up our preclinical efforts and progressing into clinical trials."

Ms. Lykins brings leadership experience gained over a 30-year career developing and commercializing medicines for central nervous system (CNS) disorders to her role as CEO. Her experience at preeminent CNS companies includes Chief Commercial Officer roles at Karuna and MapLight, and Global Product Planning and Chief Marketing Officer of ACADIA Pharmaceuticals. Before stepping into executive leadership, Ms. Lykins took on roles of increasing responsibility at Lundbeck, Sunovion, and Lilly, where she significantly contributed to the development and launch of several blockbuster products approved for depression, bipolar disorder, schizophrenia, Alzheimer's, Parkinson's, and PTSD.

Beyond TN-001, Transneural is applying its unique strategic expertise in neuroscience, drug development, clinical trial design, and execution to develop therapies for several neuropsychiatric and neurodegenerative conditions with high unmet need. Transneural is a spin-out of [CaaMTech](#), a pharmaceutical drug discovery company utilizing a collaborative scientific approach to engineer novel small-molecule psychedelic-inspired medicines to treat mental health conditions.

### **About Transneural**

Transneural Therapeutics is a preclinical-stage biotechnology company transforming the treatment of neuropsychiatric diseases with novel neuroplastogens. In development for MDD and PTSD, Transneural's lead asset, TN-001, is a dual 5-HT<sub>2A</sub> partial agonist/5-HT<sub>2B</sub> antagonist with serotonergic receptor engagement tailored to deliver rapid and enduring antidepressant efficacy rivaling psychedelic treatment, but without hallucinations or dissociative effects.

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