Rapport Therapeutics to Present Data at American Epilepsy Society Annual Meeting

November 14, 2024

Poster presentations on Phase 2a trial seizure biomarker, preclinical, and Phase 1 clinical data

BOSTON and SAN DIEGO, Nov. 14, 2024 (GLOBE NEWSWIRE) -- Rapport Therapeutics, Inc. (Nasdaq: RAPP), a clinical-stage biotechnology company dedicated to the discovery and development of small molecule precision medicines for patients suffering from central nervous system (CNS) disorders, today announced multiple presentations at the upcoming American Epilepsy Society Annual Meeting, taking place December 6-10, 2024, in Los Angeles.

Using analysis from an open-label, long-term treatment study of the RNS® System, Rapport will present key new data on the correlation between the reduction in long episode (LE) frequency (abnormal electrographic activity) and clinically meaningful reduction (50%) in patient reported seizures. The LE biomarker is being used in the Company's novel Phase 2a proof-of-concept trial of lead product candidate RAP-219 as a potential anti-seizure treatment for patients with drug-resistant focal epilepsy. The Phase 2a trial measures LE frequency reduction in patients who have an implanted responsive neurotransmitter device (RNS® System) in response to RAP-219 treatment, demonstrating expected reduced clinical seizure frequency.

The full schedule of Rapport posters at AES is as follows:

Date & Location	Poster Title	Presenter
Saturday, Dec. 07, 2024, 12:00 – 6:00 p.m. PST *South Hall H, Level 1*	Antiseizure Effects with Selective TARPγ8 Negative Allosteric Modulators in Preclinical Seizure Models (Poster #390)	Jose Matta, PhD; Brock Shireman, PhD; Laurie Volak, PhD; Michael Maher, PhD; David Bredt, MD, PhD
Saturday, Dec. 07, 2024, 12:00 – 6:00 p.m. PST *South Hall H, Level 1*	Impact of Food on the PK and Tolerability of RAP-219 in Healthy Volunteers (Poster #409)	Stephen Greene, PharmD; Swamy Yeleswaram, PhD
Saturday, Dec. 07, 2024, 12:00 – 6:00 p.m. PST *South Hall H, Level 1*	Optimal Cut Point for Reduction in Long Episode Frequency to Predict Meaningful Change in Clinical Seizure Frequency (Poster #494)	Arnold R Gammaitoni, PharmD, Martha J. Morrell, MD, Jacqueline A French, MD, Daniel Friedman, MD, Kathryn A Davis, MD, Thomas K Tcheng, PhD, Cairn Seale, MS, Bradley S Galer, MD, William W Motley, MD
Sunday, Dec. 08, 2024, 10:00 – 4:00 p.m. PST *South Hall H, Level 1*	Safety, Tolerability, and Pharmacokinetics of RAP-219 in Healthy Volunteers (Poster #372)	Swamy Yeleswaram, PhD; Bradley Galer, MD; William Motley, MD; Stephen Greene, PharmD

Our Scientific Exhibit Room will take place on Monday, Dec. 09, 2024, 2:00 – 5:00 p.m. PST in room 406AB. We will be showcasing:
1) All of the above posters
2) Evolution of RAP-219 for the Treatment of Epilepsy
3) Novel Design of a Focal Epilepsy Proof-of-Concept Study of RAP-219, a Negative Allosteric Modulator of the γ8 Transmembrane AMPA Receptor-Associated Regulatory Protein (TARPγ8)

Following the conference, Rapport's presentations will be available within the Publications section of the company's website.

For more information on the AES Annual Meeting, please visit: https://aesnet.org/AES-annual-meeting.

About RAP-219
RAP-219 is a clinical-stage AMPAR (α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptor) negative allosteric modulator (NAM) designed to achieve neuroanatomical specificity through its selective targeting of a RAP known as TARPγ8, which is associated with the neuronal AMPAR. Whereas AMPARs are distributed widely in the central nervous system (CNS), TARPγ8 is expressed only in discrete regions, including the hippocampus and cortex. Because of this restricted expression of TARPγ8 in forebrain regions, the Company believes RAP-219 has the potential to provide a differentiated clinical profile, including improved activity and tolerability along with a higher therapeutic index, potentially providing more patients with sustained therapeutic benefit without intolerable side effects, as compared to traditional neuroscience medications. Due to the role of AMPA biology in various neurological disorders and the precision approach of selective targeting of TARPγ8, the Company believes RAP-219 has

significant pipeline-in-a-product potential and is currently evaluating the compound as a transformational treatment for patients with focal epilepsy, peripheral neuropathic pain, and bipolar disorder.

About Rapport Therapeutics
Rapport Therapeutics is a clinical-stage biotechnology company dedicated to discovering and developing small molecule precision medicines for patients suffering from central nervous system (CNS) disorders. The Company's founders have made pioneering discoveries related to the function of receptor associated proteins (RAPs) in the brain. Their findings form the basis of Rapport's RAP technology platform, which enables a differentiated approach to generate precision small molecule product candidates with the potential to overcome many limitations of conventional neurology drug discovery. Rapport's precision neuroscience pipeline includes the Company's lead clinical program, RAP-219, designed to achieve neuroanatomical specificity through its selective targeting of a RAP expressed in only discrete regions of the brain. The Company is currently advancing RAP-219 in clinical trials in focal epilepsy, peripheral neuropathic pain, and bipolar disorder. Additional preclinical and late-stage discovery stage programs are also underway, targeting CNS disorders including chronic pain and hearing disorders.

Forward-Looking Statements
This press release contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, each as amended. The words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "plan," "potential," "predict," "project," "should," "target," "would" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. These forward-looking statements include, but are not limited to, express or implied statements regarding: the expected impact of reductions in long episode frequency as measured by the RNS® System; the clinical development of RAP-219 for the treatment of drug-resistant focal epilepsy, peripheral neuropathic pain and bipolar disorder; the potential activity and tolerability of RAP-219; and the potential of Rapport's RAP technology platform.

Forward looking statements are based on management's current expectations and are subject to risks and uncertainties that could negatively affect Rapport's business, operating results, financial condition and stock value. Factors that could cause actual results to differ materially from those currently anticipated include: risks relating to the company's research and development activities; Rapport's ability to execute on its strategy including obtaining the requisite regulatory approvals on the expected timeline, if at all; uncertainties relating to preclinical and clinical development activities; the company's dependence on third parties to conduct clinical trials, manufacture its product candidates and develop and commercialize its product candidates, if approved; Rapport's ability to attract, integrate and retain key personnel; risks related to the company's financial condition and need for substantial additional funds in order to complete development activities and commercialize a product candidate, if approved; risks related to regulatory developments and approval processes of the U.S. Food and Drug Administration and comparable foreign regulatory authorities; risks related to establishing and maintaining Rapport's intellectual property protections; and risks related to the competitive landscape for Rapport's product candidates; as well as other risks described in "Risk Factors," in the company's Registration Statement on Form S-1, and most recent Quarterly Report on Form 10-Q, as well as discussions of potential risks, uncertainties, and other important factors in Rapport's subsequent filings with the Securities and Exchange Commission. Rapport expressly disclaims any obligation or undertaking to release publicly any updates or revisions to any forward-looking statements contained herein to reflect any change in its expectations or any changes in events, conditions or circumstances on which any such statement is based, except as required by law, and claims the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995.

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