



RespireRx Pharmaceuticals Inc. Announces Appointment of Tim Jones to its Board of Directors

Glen Rock, N.J., February 3, 2020 /Globe Newswire – RespireRx Pharmaceuticals Inc. (OTCQB: RSPI) (“RespireRx” or the “Company”), a leader in the research and development of cannabinoids for the treatment of sleep-related breathing disorders, is pleased to announce the unanimous appointment on January 28, 2020, of Tim Jones as a member of its board of directors to fill a vacancy. Tim Jones is a highly experienced biopharmaceutical industry veteran with an outstanding track record in strategic commercial and business development, specializing in developing and sustaining high value strategic partnerships. He brings over 25 years of pharmaceutical industry experience across multiple disciplines and global markets. During the last three years, Tim has been a senior member of the management team at Noramco Inc. that created an industry-leading cannabinoids business. This business was spun off as Purisys, LLC which focuses on cannabinoids for pharmaceutical and consumer products. Mr. Jones currently serves as Vice President Global Pharmaceutical and Medical OTC for Purisys, focusing on the development of long-term strategic partnerships and customer relationships.

Tim’s experience includes 15 years of API (active pharmaceutical ingredient) sales, business development, and sourcing in the niche, controlled substances space. He is recognized in the industry for his expertise in the strategic development and growth of active pharmaceutical ingredient categories, through partnerships with a broad cross section of brand and generic companies worldwide. Tim’s extensive knowledge base and expertise across multiple pharmaceutical disciplines, have all contributed to his successful track record of financial growth. He previously held leadership roles with QuVa Pharma, Par Sterile Products, and Johnson Matthey. “Few people have the overall experience in the cannabinoid business that Tim does. During the last three years at Noramco, Inc. and now Purisys LLC, Tim’s strategic commercial and business development acumen was instrumental in driving their expansion into one of the world’s largest synthetic cannabinoid manufacturers,” said Dr. Arnold Lippa, Executive Chairman, Interim CEO and Interim President and Chief Scientific Officer of RespireRx.

“My appointment to the RespireRx Board of Directors coincides with the company’s exciting new market strategy addressing the broader cannabinoids pharmaceutical space, not only in the field of sleep apnea, but across a farther reaching portfolio of prescription products, driven by our unique IP position and the intrinsic value stream anticipated from this core strength. My personal expertise in the global cannabinoids pharma sector, partnered with a focused company vision, steered by a seasoned team of professionals, makes RespireRx highly attractive for further strategic investment and sets the stage for a very bright future,” said Tim Jones.

About RespireRx Pharmaceuticals Inc.

RespireRx Pharmaceuticals Inc. is a leader in the development of medicines for respiratory disorders and CNS indications, with a focus on obstructive sleep apnea, attention deficit hyperactivity disorder (ADHD), spinal cord injury and other neurological conditions. The Company holds exclusive licenses and owns patents and patent applications or rights thereto for certain families of chemical compounds that claim the chemical structures and their uses in the treatment of a variety of disorders, as well as claims for novel uses of known drugs.

Cannabinoids. RespireRx is developing dronabinol, Δ -9-tetrahydrocannabinol (Δ -9-THC), a synthetic version of the naturally occurring substance in the cannabis plant, for the treatment of OSA, a serious respiratory disorder that impacts an estimated 29.4 million people in the United States according to the American Academy of Sleep Medicine (“AASM”), published in August 2016. OSA has been linked to increased risk for hypertension, heart failure, depression, and diabetes, and has an annual economic cost in the United States of \$162 billion according to the AASM. There are no approved drug treatments for OSA.

RespireRx believes, for the United States, pending the outcome of an intended meeting with the FDA, that it will be able to commence a to-be-developed new formulation pharmacokinetic study to be followed by a Phase 3 clinical study for the treatment of OSA with dronabinol. The Company further believes that it would only require approval by the FDA of a 505(b)(2) new drug application (“NDA”), an efficient regulatory pathway.

Ampakines. The second platform of proprietary medicines being developed by RespireRx are ampakines, which act to enhance the actions of the excitatory neurotransmitter glutamate at AMPA glutamate receptors. Several ampakines, in both oral and injectable forms, are being developed by the Company for the treatment of a variety of CNS disorders. In clinical studies of respiratory function, select ampakines have shown preliminary efficacy in central sleep apnea and in the control of respiratory depression produced by opioids, without altering the opioid analgesic effects. In animal models of certain orphan disorders, such as Pompe Disease, Rett’s Syndrome and perinatal respiratory distress, certain ampakines have been shown to improve breathing function. Although the Company does not intend to pursue respiratory indications, we view these findings as proof of target engagement and signals of clinical efficacy.

Ampakines have shown potential as possible therapeutic agents for the treatment of certain neuropsychiatric and neurological disorders. Ampakines have demonstrated positive activity in animal models of ADHD, results that have been extended translationally into statistically significant improvement of symptoms observed in a Phase 2 human clinical trial of CX717 in adults with ADHD. At present, the major pharmacotherapies available for ADHD are made up of two types of drugs. Stimulants, such as amphetamine, rapidly produce robust effects, but suffer from side effects typical of stimulants, including tolerance, dependence, withdrawal and abuse. For these reasons, stimulants are scheduled by the FDA. Non-stimulants, such as Straterra® (atomoxetine) tend to be less effective than stimulants, with a much longer (approximately 4 – 8 week) latency to onset of action. In a number of animal and human studies, CX717 and other ampakines did not display any stimulant properties typically associated with drugs like amphetamine. In the Phase 2 ADHD clinical trial, statistically significant therapeutic effects were observed within one week. Therefore, we believe ampakines may represent a novel, non-stimulant treatment for ADHD with a more rapid onset of action than alternative non-stimulant treatment options.

RespireRx owns certain composition of matter and use patents and patent applications with respect to ampakines CX1739, CX717 and other ampakines.

Additional information about the Company and the matters discussed herein can be obtained on the Company’s website at www.RespireRx.com or in the Company’s filings with the Securities and Exchange Commission at www.sec.gov.

Cautionary Note Regarding Forward-Looking Statements

This press release contains certain 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 and the Company intends that such forward-looking statements be subject to the safe harbor created thereby. These might include statements regarding the Company’s future plans, targets, estimates, assumptions, financial position, business strategy and other plans and objectives for future operations, and assumptions and predictions about research and development efforts, including, but not limited to, preclinical and clinical research design, execution, timing, costs and results, future product demand, supply, manufacturing, costs, marketing and pricing factors. In some cases, forward-looking statements may be identified by words including “anticipates,” “believes,” “intends,” “estimates,” “expects,” “plans,” “contemplates,” “targets,” “continues,” “budgets,” “may,” and similar expressions and such statements may include, but are not limited to, statements regarding (i) future research plans, expenditures and results, (ii) potential collaborative arrangements, (iii) the potential utility of the Company’s proposed products, (iv) reorganization plans, and (v) the need for, and availability of, additional financing. The forward-looking statements included herein are based on current expectations that involve a number of risks and uncertainties. These forward-looking statements are based on assumptions regarding the Company’s business and technology, which involve judgments with respect to, among other things, future scientific, economic, regulatory and competitive conditions, collaborations with third parties, and future business decisions, all of which are difficult or impossible to predict accurately and many of which are beyond the Company’s control. Although the Company believes that the assumptions underlying the forward-looking statements are reasonable, actual results

may differ materially from those set forth in the forward- looking statements. In light of the significant uncertainties inherent in the forward-looking information included herein, the inclusion of such information should not be regarded as a representation by the Company or any other person that the Company's objectives or plans will be achieved. Factors that could cause or contribute to such differences include, but are not limited to, regulatory policies or changes thereto, available cash, research and development results, competition from other similar businesses, interest of third parties in collaborations with us, and market and general economic factors. For more information about the risks and uncertainties the Company faces, see "Item 1A. Risk Factors" of the RespireRx Pharmaceuticals Inc. Annual Report of Form 10-K as of December 31, 2018. For more current information about the Company, see the Company's Quarterly Report on Form 10-Q as of September 30, 2019. Forward-looking statements speak only as of the date they are made. The Company does not undertake and specifically declines any obligation to update any forward-obligation to update any forward-looking statements or to publicly announce the results of any revisions to any statements to reflect new information or future events or developments.

Company Contact:

Jeff Margolis
Senior Vice President, Chief Financial Officer, Treasurer and Secretary
Telephone: (917) 834-7206
E-mail: jmargolis@respirerx.com

RespireRx Pharmaceuticals, Inc.
126 Valley Road,
Suite C,
Glen Rock, NJ 07452
www.respirerx.com