April 26, 2018

Rexahn to Present Clinical Data at 2018 American Society of Clinical Oncology (ASCO) Annual Meeting

Preliminary Safety and Efficacy Data from Phase 1b/2a Trial of RX-5902 in Advanced Triple Negative Breast Cancer

Updated Safety and Efficacy Data on RX-3117 in Advanced Urothelial (Bladder) Cancer

ROCKVILLE, Md., April 26, 2018 (GLOBE NEWSWIRE) -- Rexahn Pharmaceuticals, Inc. (NYSE American:RNN), a clinical-stage biopharmaceutical company developing innovative, targeted therapeutics for the treatment of cancer, will present two posters with clinical data on RX-5902 and RX-3117 at the upcoming 2018 American Society of Clinical Oncology (ASCO) Annual Meeting to be held June 1—5 in Chicago. The poster presentations are as follows:

Abstract Number and Title: #1097, "Preliminary report of a phase 1b/2a trial, an oral inhibitor of phosphorylated P68 (P-p68) which mediates β-catenin nuclear translocation in advanced triple-negative breast cancer (TNBC)"
Poster Session: Breast Cancer—Metastatic
Session Date and Time: Saturday, June 2, 2018; 8:00—11:30 a.m. CT
Location: Hall A, Poster Board Number: #178

Abstract Number and Title: #4543, "Preliminary results from an ongoing phase 2a study of RX-3117, an oral nucleoside analogue to treat advanced urothelial cancer (aUC)"
Poster Session: Genitourinary (Nonprostate) Cancer
Session Date and Time: Saturday, June 2, 2018; 8:00—11:30 a.m. CT
Location: Hall A, Poster Board Number: #369

About RX-5902

RX-5902 is an orally administered, potential first-in-class, small molecule inhibitor of phosphorylated-p68 (P-p68). P-p68, which is selectively overexpressed in cancer cells and is absent in normal tissue, modulates the activity of the β-catenin/Wnt pathway and plays a role in tumor progression, metastasis and tumor immunogenicity.

In preclinical studies, RX-5902 has been shown to inhibit the growth and proliferation of multiple human cancer cell lines (including triple negative breast cancer), decrease tumor growth in patient derived xenograft models and potentiate the activity immune checkpoint inhibitors and other anti-tumor agents. Additional information on RX-5902 can be found at: https://rexahn.com/cms/portfolio/rx-5902/.

About RX-3117

RX-3117 is a novel, investigational, oral, small molecule nucleoside compound. Once intracellularly activated (phosphorylated) by UCK2, it is incorporated into the DNA or RNA of cells and inhibits both DNA and RNA synthesis, which induces apoptotic cell death of tumor cells. Because UCK2 is overexpressed in multiple human tumors, but has a very limited presence in normal tissues, RX-3117 offers the potential for a targeted anti-cancer therapy with an improved efficacy and safety profile. RX-3117 is currently being studied in a Phase 2a clinical trial in in combination with Abraxane® (nab-paclitaxel) in first line metastatic pancreatic patients and a Phase 2a clinical trial in patients with advanced or metastatic bladder cancer. It has received Orphan Drug designation for the treatment of pancreatic cancer. Additional information on RX-3117 can be found at: https://rexahn.com/cms/portfolio/rx-3117/.

About Rexahn Pharmaceuticals, Inc.

Rexahn Pharmaceuticals Inc. (NYSE American:RNN) is a clinical stage biopharmaceutical company dedicated to developing novel, targeted therapeutics for the treatment of cancer. The company's mission is to improve the lives of cancer patients by developing next-generation cancer therapies that are designed to maximize efficacy while minimizing the toxicity and side effects traditionally associated with cancer treatment. Rexahn's product candidates work by targeting and neutralizing specific proteins believed to be involved in the complex biological cascade that leads to cancer cell growth. Preclinical studies show that certain of Rexahn's product candidates may be effective against multiple types of cancer, including drug resistant cancers, and difficult-to-treat cancers, and others may augment the effectiveness of current FDA-approved cancer

treatments. The company has two oncology product candidates, RX-3117 and RX-5902, in Phase 2 clinical development and additional compounds in preclinical development including RX-0201. For more information about the Company and its oncology programs, please visit www.rexahn.com.

Safe Harbor

To the extent any statements made in this press release deal with information that is not historical, these are forward-looking statements under the Private Securities Litigation Reform Act of 1995. Such statements include, but are not limited to, statements about Rexahn's plans, objectives, expectations and intentions with respect to cash flow requirements, future operations and products, enrollments in clinical trials, the path of clinical trials and development activities, and other statements identified by words such as "will," "potential," "could," "can," "believe," "intends," "continue," "plans," "expects," "anticipates," "estimates," "may," other words of similar meaning or the use of future dates. Forward-looking statements by their nature address matters that are, to different degrees, uncertain. Uncertainties and risks may cause Rexahn's actual results to be materially different than those expressed in or implied by Rexahn's forward-looking statements. For Rexahn, particular uncertainties and risks include, among others, understandings and beliefs regarding the role of certain biological mechanisms and processes in cancer; drug candidates being in early stages of development, including clinical development; the ability to initially develop drug candidates for orphan indications to reduce the time-to-market and take advantage of certain incentives provided by the U.S. Food and Drug Administration; the ability to transition from our initial focus on developing drug candidates for orphan indications to candidates for more highly prevalent indications; and the expecting timing of results from our clinical trials. More detailed information on these and additional factors that could affect Rexahn's actual results are described in Rexahn's filings with the Securities and Exchange Commission, including its most recent annual report on Form 10-K and subsequent quarterly reports on Form 10-Q. All forward-looking statements in this news release speak only as of the date of this news release. Rexahn undertakes no obligation to update or revise any forward-looking statement, whether as a result of new information, future events or otherwise.

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