



Press Release

RedHill Biopharma Announces Poster Presentation at the 2017 AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Conference

TEL-AVIV, Israel / RALEIGH, NC, October 19, 2017 RedHill Biopharma Ltd. (NASDAQ: RDHL) (Tel-Aviv Stock Exchange: RDHL) (“RedHill” or the “Company”), a specialty biopharmaceutical company primarily focused on late clinical-stage development and commercialization of proprietary, orally-administered, small molecule drugs for gastrointestinal and inflammatory diseases and cancer, today announced a planned poster presentation relating to the active metabolite of MESUPRON, WX-UK1, at the 2017 AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics Conference, on Sunday, October 29, 2017, from 12:30 - 4:00 PM, at the Pennsylvania Convention Center in Philadelphia, PA.

MESUPRON is a proprietary, first-in-class, orally-administered protease inhibitor, with several potential mechanisms of action to inhibit tumor invasion and metastasis. MESUPRON presents a new, non-cytotoxic approach to cancer therapy and potentially to additional inflammatory gastrointestinal diseases, such as diarrhea-predominant irritable bowel syndrome (IBS-D), pancreatitis and inflammatory bowel disease (IBD).

The poster¹, entitled ‘New potential therapeutic applications of WX-UK1 as a specific and potent inhibitor of human trypsin-2 and human trypsin-3’, was authored by scientists from the Department of Molecular Biology and Genetics of Aarhus University in collaboration with RedHill Biopharma. The abstract presents data from non-clinical studies, concluding that WX-UK1 is a potent and rather specific inhibitor of human trypsin-2 and human trypsin-3, suggesting new potential therapeutic applications of WX-UK1 in oncology and inflammatory gastrointestinal diseases.

RedHill acquired the exclusive worldwide development and commercialization rights to MESUPRON, excluding China, Hong Kong, Taiwan and Macao, from Germany’s WILEX AG for all indications. WILEX AG completed several clinical studies with MESUPRON for

¹ The poster was authored by Emil Oldenburg, Christine R. Schar, Eva L. Lange and Jan K Jensen, from the Institute of Molecular Biology and Genetics, Aarhus University and Danielle T Abramson, Reza Fathi, Eric M. Towler, Mark Levitt, and Terry F. Plasse from RedHill Biopharma.

different indications, including two Phase II proof-of-concept studies, one for pancreatic cancer and one for metastatic breast cancer.

RedHill has an ongoing research collaboration agreement with the Department of Molecular Biology and Genetics of Aarhus University in Denmark for the evaluation of MESUPRON. The non-clinical studies with MESUPRON are intended to support the clinical data from previous Phase I and Phase II studies, and may allow RedHill to take a precision medicine approach going forward. Further evaluation of MESUPRON, together with Aarhus University, may allow for selection of appropriate subpopulations of patients toward demonstrating the activity of MESUPRON in planned clinical trials.

About MESUPRON:

MESUPRON is a proprietary, first-in-class, orally-administered potent protease inhibitor of human trypsin-2 and human trypsin-3, targeting pancreatic cancer and inflammatory gastrointestinal diseases. Protease inhibitors have been shown to play key roles in tumor invasion and the metastasis process. High levels of certain proteases are associated with poor prognosis in various solid tumor cancers, such as pancreatic, gastric, breast and prostate cancers. MESUPRON presents a promising new non-cytotoxic approach to cancer therapy with several potential mechanisms of action to inhibit both tumor metastasis and growth. MESUPRON has undergone several Phase I studies and two Phase II proof-of-concept studies. The first Phase II study was in locally-advanced, unresectable pancreatic cancer and the second study in metastatic breast cancer in combination with first-line chemotherapeutic agents. RedHill received a Notice of Allowance from the United States Patent and Trademark Office (USPTO) for a new patent covering the use of MESUPRON and RedHill's Phase II-stage investigational compound, YELIVA[®], in combination with a known antibiotic, for hard-to-treat cancers.

About RedHill Biopharma Ltd.:

RedHill Biopharma Ltd. (NASDAQ: RDHL) (Tel-Aviv Stock Exchange: RDHL) is a specialty biopharmaceutical company headquartered in Israel, primarily focused on the development and commercialization of late clinical-stage, proprietary, orally-administered, small molecule drugs for the treatment of gastrointestinal and inflammatory diseases and cancer. RedHill promotes three gastrointestinal products in the U.S. - **Donnatal[®]**, a prescription oral adjunctive drug used in the treatment of IBS and acute enterocolitis, **EnteraGam[®]**, a medical food intended for the dietary management, under medical supervision, of chronic diarrhea and loose stools, and **Esomeprazole Strontium Delayed-Release Capsules 49.3 mg**, a prescription proton pump inhibitor indicated for adults for the treatment of gastroesophageal reflux disease (GERD) and other gastrointestinal conditions. RedHill's clinical-stage pipeline includes: (i) **TALICIA[™] (RHB-105)** - an oral combination therapy for the treatment of *Helicobacter pylori* infection with successful results from a first Phase III study and an ongoing confirmatory Phase III study; (ii) **RHB-104** - an oral combination therapy for the treatment of Crohn's disease with an ongoing first Phase III study, a completed proof-of-concept Phase IIa study for multiple sclerosis, and a planned pivotal Phase III study for nontuberculous mycobacteria (NTM) infections; (iii) **BEKINDA[®] (RHB-102)** - a once-daily oral pill formulation of ondansetron with successful top-line results from a Phase III study in acute gastroenteritis and gastritis and

successful top-line results from a Phase II study in IBS-D; (iv) **RHB-106** - an encapsulated bowel preparation licensed to Salix Pharmaceuticals, Ltd.; (v) **YELIVA® (ABC294640)** - a Phase II-stage, orally-administered, first-in-class SK2 selective inhibitor targeting multiple oncology, inflammatory and gastrointestinal indications; (vi) **MESUPRON** - a Phase II-stage first-in-class, orally-administered protease inhibitor, targeting pancreatic cancer and inflammatory gastrointestinal diseases and (vii) **RIZAPORT® (RHB-103)** - an oral thin-film formulation of rizatriptan for acute migraines, with a U.S. NDA currently under discussion with the FDA and marketing authorization received in two EU member states under the European Decentralized Procedure (DCP). More information about the Company is available at: www.redhillbio.com.

This press release contains “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. Such statements may be preceded by the words “intends,” “may,” “will,” “plans,” “expects,” “anticipates,” “projects,” “predicts,” “estimates,” “aims,” “believes,” “hopes,” “potential” or similar words. Forward-looking statements are based on certain assumptions and are subject to various known and unknown risks and uncertainties, many of which are beyond the Company’s control, and cannot be predicted or quantified and consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Such risks and uncertainties include, without limitation, risks and uncertainties associated with (i) the initiation, timing, progress and results of the Company’s research, manufacturing, preclinical studies, clinical trials, and other therapeutic candidate development efforts; (ii) the Company’s ability to advance its therapeutic candidates into clinical trials or to successfully complete its preclinical studies or clinical trials; (iii) the extent and number of additional studies that the Company may be required to conduct and the Company’s receipt of regulatory approvals for its therapeutic candidates, and the timing of other regulatory filings, approvals and feedback; (iv) the manufacturing, clinical development, commercialization, and market acceptance of the Company’s therapeutic candidates; (v) the Company’s ability to successfully market Donnatal® and EnteraGam®, (vi) the Company’s ability to establish and maintain corporate collaborations; (vii) the Company’s ability to acquire products approved for marketing in the U.S. that achieve commercial success and build its own marketing and commercialization capabilities; (viii) the interpretation of the properties and characteristics of the Company’s therapeutic candidates and of the results obtained with its therapeutic candidates in research, preclinical studies or clinical trials; (ix) the implementation of the Company’s business model, strategic plans for its business and therapeutic candidates; (x) the scope of protection the Company is able to establish and maintain for intellectual property rights covering its therapeutic candidates and its ability to operate its business without infringing the intellectual property rights of others; (xi) parties from whom the Company licenses its intellectual property defaulting in their obligations to the Company; and (xii) estimates of the Company’s expenses, future revenues capital requirements and the Company’s needs for additional financing; (xiii) the Company’s Expanded Access Program, which allows patients with life-threatening diseases potential access, subject to regulatory and other approvals, to RedHill’s investigational new drugs that have not yet received regulatory marketing approval, if a patient suffers an adverse experience using such investigative drug, potentially adversely affecting the clinical development program of that investigational product or the Company generally; (xiv)

competitive companies and technologies within the Company's industry. More detailed information about the Company and the risk factors that may affect the realization of forward-looking statements is set forth in the Company's filings with the Securities and Exchange Commission (SEC), including the Company's Annual Report on Form 20-F filed with the SEC on February 23, 2017. All forward-looking statements included in this Press Release are made only as of the date of this Press Release. We assume no obligation to update any written or oral forward-looking statement unless required by law.

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